

CP Papers on Scheduling

Helmut Simonis and Cemalettin Öztürk

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1 Introduction

This document shows the result of a survey on "Constraint Programming and Scheduling", which tries to find and classify all publications on the combination of these two concepts. It is based on a manually collected bibfile containing reference to relevant papers and articles, and on an automatic and manual analysis of local copies of the cited papers. For copyright reasons, we are obviously not able to distribute the collected copies, but we provide links to the original sources of the files.

We identify the papers by a key which is the last name of the first author, the first character of the last names of all other authors, and a two digit year code for the date of publication. If multiple works would define the same key, we differentiate by adding a suffix "a", "b", etc, to the second and subsequent works found.

Most of the content of this document is generated by a Java program that parses the bib files, adds any manually extracted information, and which then extracts concept occurrences from the local copies of the works. It then produces tables and other LaTeX artifacts that are included in a manually defined top-level document.

To add new works, first add bibtex entries for each work in the main `overview/bib.bib` file, then add local copies of the pdf of the work to the `overview/works/` directory, using the key of the bibtex entry as the file name (plus extension `.pdf`), and then run the main Java program `org.insightcentre.pthg24.JfxApp` to consolidate the information and extract the relevant concepts. Finally, run `pdflatex` on the `overview/scheduling.tex` file to produce this pdf document. Manually extracted information for the files can be added in the `imports/manual.csv` file. New concepts can be added in the file `imports/concepts.json`, new concept types need to be directly defined in the Java code.

We start the document by providing a table of all defined keys in the bib file in alphabetical order. This table can be helpful to see if a candidate paper is already in the survey, it suffices to see if the key is already present, and matches the authors, title and origin of the candidate paper. In the table link given by the key points to the local copy of the file, while the citation number links to the bibliography entry. That entry typically also contains a link to the original source of the paper.

This document heavily depends on the use of hyper links in the document, it has been tested with Acrobat Reader, other pdf reader may not use links in the same way.

Table 1: Key Overview (Total: 649)

1	2	3	4	5	6
AalianPG23 [1]	AbohashimaEG21 [2]	AbreuAPNM21 [167]	AbreuN22 [168]	AbreuNP23 [169]	AbreuPNF23 [3]
AbrilSB05 [4]	Acuna-AgostMFG09 [5]	Adelgren2023 [7]	AfsarVPG23 [8]	AggounB93 [9]	AggounMV08 [10]
AjiliW04 [12]	AkkerDH07 [608]	AkramNHRS23 [13]	AlesioNBG14 [182]	AlfieriGPS23 [15]	AlizdehS20 [16]
AmadiniGM16 [17]	AngelsmarkJ00 [18]	AntunesABD18 [19]	AntunesABD20 [20]	AntuoriHHEN20 [21]	AntuoriHHEN21 [22]
ArbaouiY18 [24]	ArkhipovBL19 [25]	ArmstrongGOS21 [26]	ArmstrongGOS22 [27]	AronssonBK09 [29]	ArtiguesBF04 [30]
ArtiguesDN08 [31]	ArtiguesHQT21 [32]	ArtiguesR00 [33]	ArtiouchineB05 [34]	Astrand0F21 [36]	Astrand21 [35]
AstrandJZ18 [37]	AstrandJZ20 [38]	BadicaBI20 [39]	BadicaBIL19 [40]	BajestaniB11 [41]	BajestaniB13 [42]
BajestaniB15 [43]	BandaSC11 [171]	Baptiste02 [44]	Baptiste09 [45]	BaptisteB18 [46]	BaptisteLPN06 [47]
BaptisteLV92 [51]	BaptisteP00 [49]	BaptisteP97 [48]	BaptistePN01 [50]	BarlattCG08 [52]	Bartak02 [54]
Bartak02a [53]	Bartak14 [55]	BartakCS10 [56]	BartakS11 [57]	BartakSR10 [58]	BartakV15 [59]
BartoliniBBLM14 [60]	BarzegaranZP20 [61]	Beck06 [63]	Beck07 [64]	Beck99 [62]	BeckDF97 [65]
BeckF00 [68]	BeckF98 [67]	BeckFW11 [66]	BeckPS03 [69]	BeckR03 [70]	BeckW04 [71]
BeckW05 [72]	BeckW07 [73]	Bedhief21 [74]	BegB13 [75]	BehrensLM19 [76]	BeldiceanuC02 [79]
BeldiceanuC94 [78]	BeldiceanuCDP11 [80]	BeldiceanuCP08 [81]	BeldiceanuP07 [82]	BelhadjiI98 [83]	BenderWS21 [84]
BenediktMH20 [86]	BenediktSMVH18 [87]	BeniniBGM06 [88]	BeniniLMR08 [89]	BeniniLMR11 [90]	BensanaLV99 [91]
BertholdHLMS10 [92]	BessiereHMQW14 [93]	BidotVLB09 [94]	BillautHL12 [95]	Bit-Monnot23 [96]	BlazewiczDP96 [126]
BlazewiczEP19 [97]	BlomBPS14 [99]	BlomPS16 [100]	BocewiczBB09 [101]	BofillCSV17 [103]	BofillEGPSV14 [104]
BofillGSV15 [105]	BogaerdtW19 [609]	Bonfietti16 [106]	BonfiettiLBM11 [107]	BonfiettiLBM12 [108]	BonfiettiLBM14 [109]
BonfiettiLM13 [110]	BonfiettiLM14 [111]	BonfiettiM12 [112]	BonfiettiZLM16 [113]	BonninMNE24 [114]	BoothNB16 [115]
BorghesiBLMB18 [116]	BoucherBVBL97 [117]	BoudreaultSLQ22 [118]	BourreauGGLT22 [119]	BretingerL95 [120]	BridiBLMB16 [121]
BridiLBBM16 [122]	BrusoniCLMMT96 [124]	BurtLPS15 [125]	Caballero19 [127]	Caballero23 [128]	CampeauG22 [129]
CappartS17 [130]	CappartTSR18 [131]	CarchraeB09 [132]	CarchraeBF05 [133]	CarlierSJP21 [137]	Caseau97 [138]
CastroGR10 [139]	CatusseCBL16 [140]	CauwelaertDMS16 [141]	CauwelaertDS20 [143]	CauwelaertLS18 [142]	CestaOPS14 [144]
CestaOS98 [145]	ChapadosJR11 [146]	ChenGPSH10 [147]	ChuGNSW13 [148]	ChuX05 [149]	CireCH13 [150]
CireCH16 [151]	Clercq12 [170]	ClercqPBJ11 [152]	CobanH10 [153]	CobanH11 [154]	CohenHB17 [155]
ColT19 [157]	ColT22 [161]	Colombani96 [158]	CorreaLR07 [159]	CzerniachowskaWZ23 [160]	DannaP03 [163]
DannaP04 [162]	Darby-DowmanLMZ97 [164]	Davenport10 [165]	DavenportKRSH07 [166]	Dejemeppe16 [173]	DejemeppeCS15 [174]
DejemeppeD14 [175]	Demasse03 [176]	Demasse05 [177]	DemirovicS18 [178]	Derrien15 [179]	DerrienP14 [180]
DerrienPZ14 [181]	DilkinaDH05 [183]	DincbasSH90 [185]	DomdorfPH03 [186]	DoomsH08 [187]	DorndorfHHP99 [188]
DorndorfPH99 [189]	DoulabiRP14 [190]	DoulabiRP16 [191]	EdisO11 [192]	EdisO11a [193]	EdwardsBSE19 [194]
EfthymiouY23 [195]	ElciOH22 [196]	Elkhyari03 [197]	ElkhyariGJ02 [198]	ElkhyariGJ02a [199]	EmdeZD22 [200]
ErtIK91 [201]	EscobetPQPRA19 [202]	EtminaniesfahaniGNMS22 [203]	EvenSH15 [204]	EvenSH15a [205]	Fahimi16 [206]
FahimiOQ18 [207]	FahimiQ23 [208]	FalaschiGMP97 [209]	FallahAC20 [210]	FanXG21 [211]	FarsiTM22 [212]
Fatemi-AnarakiTFV23 [213]	FetgoD22 [215]	FocacciLN00 [216]	FontaineMH16 [217]	ForbesHJST24 [218]	FortinZDF05 [219]
FoxAS82 [220]	FrankK05 [221]	FriedrichFMRSS14 [222]	FrimodigS19 [223]	Froger16 [224]	FrohnerTR19 [225]
FrostD98 [226]	GalleguillosKSB19 [227]	GarganiR07 [228]	GarridoAO09 [229]	GarridoOS08 [230]	GayHLS15 [231]

Table 1: Key Overview (Total: 649)

1	2	3	4	5	6
GayHS15 [232]	GayHS15a [233]	GaySS14 [234]	GedikKEK18 [235]	GeibingerKKMMW21 [236]	GeibingerMM19 [238]
GeibingerMM21 [239]	GeitzGSSW22 [240]	GelainPRVW17 [241]	German18 [242]	Geske05 [243]	GhasemiMH23 [244]
GilesH16 [245]	GingrasQ16 [246]	GodardLN05 [247]	Godet21a [248]	GodetLHS20 [249]	GoelSHFS15 [250]
GokgurHO18 [251]	GoldwaserS17 [252]	GoldwaserS18 [253]	Goltz95 [254]	GombolayWS18 [255]	GomesHS06 [256]
GomesM17 [257]	GrimesH10 [258]	GrimesH11 [259]	GrimesH15 [260]	GrimesHM09 [261]	GrimesIOS14 [262]
Groleaz21 [263]	GroleazNS20 [265]	GroleazNS20a [264]	GruianK98 [266]	GuSS13 [267]	GuSSWC14 [268]
GuSW12 [269]	GuoHLW20 [270]	GuoZ23 [271]	GurEA19 [672]	GurPAE23 [272]	GuyonLPR12 [273]
HachemiGR11 [274]	Ham18 [275]	Ham18a [276]	HamC16 [278]	HamPK21 [277]	HanenKP21 [279]
HarjunkoskiG02 [280]	HarjunkoskiMBC14 [281]	HauderBRPA20 [285]	He0GLW18 [286]	HebrardALLCMR22 [287]	HebrardHJMPV16 [288]
HebrardTW05 [289]	HechingH16 [290]	HeckmanB11 [291]	HeinzB12 [292]	HeinzKB13 [293]	HeinzNVH22 [297]
HeinzS11 [295]	HeinzSB13 [296]	HeinzSSW12 [294]	HeipckeCCS00 [299]	HentenryckM04 [300]	HentenryckM08 [301]
HermenierDL11 [302]	HillBCGN22 [303]	HillTV21 [304]	HoYCLLC18 [305]	HoeveGSL07 [611]	Hooker00 [306]
Hooker04 [307]	Hooker05 [308]	Hooker05a [309]	Hooker06 [310]	Hooker07 [311]	Hooker10 [312]
Hooker17 [313]	Hooker19 [314]	HookerH17 [316]	HookerO03 [315]	HookerY02 [317]	HoundjiSW19 [318]
HoundjiSWD14 [319]	HubnerGSV21 [320]	HurleyOS16 [321]	IfrimOS12 [322]	IsikYA23 [323]	JainG01 [325]
JainM99 [324]	Jans09 [326]	JelinekB16 [327]	JourdanFRD94 [328]	JungblutK22 [329]	JuvinHHL23 [330]
JuvinHL22 [331]	JuvinHL23 [332]	JuvinHL23a [333]	KamarainenS02 [334]	Kameugne14 [335]	Kameugne15 [336]
KameugneFGOQ18 [337]	KameugneFND23 [338]	KameugneFSN11 [339]	KameugneFSN14 [340]	KanetAG04 [341]	KelarevaTK13 [342]
KelbelH11 [343]	KeriK07 [344]	KhayatLR06 [345]	KhemmoudjPB06 [346]	KimCMLLP23 [347]	KlankeBYE21 [348]
KletzanderM17 [349]	KoehlerBFFHPSSS21 [350]	KorbaaYG00 [354]	KorbaaYG99 [353]	KoschB14 [355]	KovacsB07 [356]
KovacsB08 [357]	KovacsB11 [358]	KovacsEKV05 [359]	KovacsK11 [360]	KovacsTKSG21 [363]	KovacsV04 [361]
KovacsV06 [362]	KreterSS15 [364]	KreterSS17 [365]	KreterSSZ18 [366]	KrogtLPHJ07 [610]	KuB16 [367]
KuchcinskiW03 [368]	KucukY19 [370]	Kumar03 [369]	Laborie03 [371]	Laborie09 [372]	Laborie18a [373]
LaborieRSV18 [374]	LacknerMMWW21 [375]	LacknerMMWW23 [376]	LahimerLH11 [377]	LammaMM97 [379]	LauLN08 [380]
Layfield02 [382]	Lemos21 [383]	Letort13 [384]	LetortBC12 [385]	LetortCB13 [386]	LetortCB15 [387]
LiFJZLL22 [389]	LiW08 [388]	LiessM08 [390]	LimBTBB15 [393]	LimHTB16 [392]	LimRX04 [391]
Limtanyakul07 [394]	LimtanyakulS12 [395]	LipovetzkyBPS14 [396]	LiuCGM17 [398]	LiuJ06 [399]	LiuLH19 [397]
Lombardi10 [400]	LombardiBM15 [401]	LombardiBMB11 [402]	LombardiM09 [403]	LombardiM10 [405]	LombardiM10a [404]
LombardiM12 [407]	LombardiM12a [406]	LombardiM13 [408]	LombardiMB13 [409]	LombardiMRB10 [410]	LopesCSM10 [411]
LopezAKYG00 [412]	LorigeonBB02 [413]	LouieVNB14 [414]	Lunardi20 [416]	LunardiBLRV20 [415]	LuoB22 [418]
LuoVLBM16 [417]	Madi-WambaB16 [419]	Madi-WambaLOBM17 [420]	MakMS10 [421]	Malapert11 [422]	MalapertCGJLR12 [423]
MalapertCGJLR13 [424]	MalapertN19 [425]	Malik08 [426]	MalikMB08 [427]	MaraveliasG04 [428]	MartinPY01 [429]
MartnezAJ22 [430]	Mason01 [431]	Mehdizadeh-Somarin23 [432]	MejiaY20 [433]	MelgarejoLS15 [11]	Menana11 [434]
MenciaSV12 [435]	MenciaSV13 [436]	MengZRZL20 [437]	Mercier-AubinGQ20 [439]	MercierH08 [438]	Milano11 [440]
MilanoORT02 [441]	MilanoW06 [442]	MilanoW09 [443]	MoffittPP05 [444]	MokhtarzadehTNF20 [445]	MonetteDD07 [446]
MonetteDH09 [447]	MontemanniD23 [449]	MontemanniD23a [448]	MossigeGSMC17 [450]	MouraSCL08 [452]	MouraSCL08a [451]

Table 1: Key Overview (Total: 649)

1	2	3	4	5	6
MullerMKP22 [453]	MurinR19 [454]	MurphyMB15 [455]	Muscettola02 [456]	MusliuSS18 [457]	NaderiBZ22 [459]
NaderiBZ22a [458]	NaderiR22 [460]	NaderiRBAU21 [461]	NaderiRR23 [462]	Nattaf16 [463]	NattafAL15 [464]
NattafAL17 [465]	NattafALR16 [466]	NattafDYW19 [467]	NattafHKAL19 [468]	NattafM20 [469]	NeronABCDD06 [483]
NishikawaSTT18 [472]	NishikawaSTT18a [473]	NishikawaSTT19 [474]	NouriMHD23 [606]	NovaraNH16 [475]	Novas19 [476]
NovasH10 [477]	NovasH12 [478]	NovasH14 [479]	NuijtenA94 [480]	NuijtenA96 [482]	NuijtenP98 [481]
OddiPCC03 [484]	OhrimenkoSC09 [485]	OuelletQ13 [486]	OuelletQ18 [487]	OuelletQ22 [488]	OujanaAYB22 [489]
OzturkTHO13 [490]	PandeyS21a [491]	PapaB98 [494]	Pape94 [492]	PapeB97 [493]	ParkUJR19 [495]
PembertonG98 [496]	PenzDN23 [497]	PerezGSL23 [498]	PesantRR15 [500]	PoderB08 [502]	PoderBS04 [503]
PohlAK22 [504]	Polo-MejiaALB20 [505]	PopovicCGNC22 [506]	PourDERB18 [507]	PovedaAA23 [508]	Pralet17 [509]
PraletLJ15 [510]	PrataAN23 [511]	Puget95 [512]	QinDCS20 [514]	QinWSLS21 [513]	QuSN06 [515]
QuirogaZH05 [516]	RendlPHPR12 [518]	RiahiNS018 [519]	RodosekW98 [520]	Rodriguez07 [522]	RodriguezDG02 [521]
RoshanaeiBAUB20 [523]	RoshanaeiLAU17 [524]	RoshanaeiLAU17a [525]	RossiTHP07 [526]	RuggieroBBMA09 [527]	SacramentoSP20 [528]
Sadykov04 [529]	SadykovW06 [530]	SakkoutW00 [531]	SchausD08 [532]	SchausHMCMD11 [533]	SchildW00 [534]
SchnellH15 [535]	Schutt11 [536]	SchuttCSW12 [537]	SchuttFS13 [539]	SchuttFS13a [538]	SchuttFSW09 [540]
SchuttFSW11 [542]	SchuttFSW13 [543]	SchuttFSW15 [544]	SchuttS16 [545]	SchuttW10 [546]	SchuttWS05 [547]
SerraNM12 [548]	ShaikhK23 [549]	ShiYXQ22 [551]	ShinBBHO18 [552]	Siala15 [553]	Siala15a [554]
SialaAH15 [555]	SimoninAHL12 [556]	SimoninAHL15 [557]	Simonis07 [561]	Simonis95 [559]	Simonis95a [558]
Simonis99 [560]	SimonisC95 [563]	SimonisCK00 [562]	SimonisH11 [564]	SourdN00 [565]	SquillaciPR23 [566]
SubulanC22 [567]	SunLYL10 [569]	SureshMOK06 [570]	SvancaraB22 [571]	SzerediS16 [572]	TanT18 [574]
TangB20 [575]	TangLWSK18 [576]	TardivoDFMP23 [577]	TasselGS23 [578]	Tay92 [580]	Teppan22 [581]
TerekhovDOB12 [582]	TerekhovTDB14 [583]	Tesch16 [584]	Tesch18 [585]	ThiruvadyBME09 [586]	ThiruvadyWGS14 [587]
ThomasKS20 [588]	Thorsteinsson01 [589]	Timpe02 [590]	Tom19 [591]	TopalogluO11 [592]	TorresL00 [593]
TouatBT22 [594]	Touraivane95 [595]	TranAB16 [596]	TranB12 [597]	TranDRFWOVB16 [598]	TranPZLDB18 [599]
TranTDB13 [600]	TranVNB17 [601]	TranVNB17a [602]	TranWDRFOVB16 [603]	TrojetHL11 [604]	Tsang03 [605]
ValleMGT03 [607]	VanczaM01 [612]	VerfaillieL01 [613]	Vilim02 [614]	Vilim03 [615]	Vilim04 [616]
Vilim05 [617]	Vilim09 [618]	Vilim09a [619]	Vilim11 [620]	VilimBC04 [621]	VilimBC05 [622]
VilimLS15 [623]	VillaverdeP04 [624]	VlkHT21 [625]	Wallace06 [628]	Wallace94 [626]	Wallace96 [627]
WallaceY20 [629]	WangB20 [630]	WangB23 [631]	WangMD15 [632]	WariZ19 [633]	WatsonB08 [634]
WessenCS20 [635]	WikarekS19 [636]	WinterMMW22 [637]	Wolf03 [638]	Wolf05 [639]	Wolf09 [642]
Wolf11 [640]	WolfS05 [641]	WolinskiKG04 [643]	WuBB05 [644]	WuBB09 [645]	YangSS19 [646]
YounespourAKE19 [647]	YoungFS17 [648]	YunusogluY22 [650]	YuraszeckMC23 [651]	YuraszeckMCCR23 [653]	YuraszeckMPV22 [652]
Zahout21 [654]	ZarandiASC20 [656]	ZarandiB12 [214]	ZarandiKS16 [655]	ZeballosH05 [657]	ZeballosQH10 [658]
ZhangBB22 [660]	ZhangJZL22 [659]	ZhangLS12 [663]	ZhangW18 [662]	ZhangYW21 [661]	Zhou96 [664]
Zhou97 [665]	ZhouGL15 [666]	ZhuS02 [667]	ZhuSZW23 [668]	ZibranR11 [669]	ZibranR11a [670]
ZouZ20 [671]	abs-0907-0939 [501]	abs-1009-0347 [541]	abs-1901-07914 [77]	abs-1902-01193 [14]	abs-1902-09244 [284]
abs-1911-04766 [237]	abs-2102-08778 [156]	abs-2211-14492 [568]	abs-2305-19888 [298]	abs-2306-05747 [579]	abs-2312-13682 [499]

Table 1: Key Overview (Total: 649)

1	2	3	4	5	6
abs-2402-00459 [471]					

2 Conference Paper List

This section presents the information for all conference papers included in the survey. For space reasons, not all information about the papers can be presented in a single table, we therefore split the data into three parts. The first part contains the main bibliographical information for the paper. The paper are sorted by year of publication (newest first), and then alphabetically by key.

The key contains a hyperlink to the original source URL of the paper. You may have to navigate manually to download the actual paper content, and you may be unable to access the paper completely if it is behind a paywall for which you (or your organization) do not have access.

We then list the authors of the paper, in the other given in the bibtex file, abbreviating first names for space where we can identify them. Note that names with non-latin characters are not handled by latex. We use the form that is given in the bibtex file, but have excluded entries that cause latex to fail.

We then give the title of the publication, using the original capitalization of the title entry in the bibtex entry, which may differ from the format shown in the bibliography. We then (column LC) provide a link to a local copy, if it is present, and a link to the bibliography entry of the paper. We also show the year of publication, and the conference where the paper was published, using a short form abbreviation of the conference. This relies on a matching routine in the Java code to find the short title, new conference series may require an additional entry in `ImportBibtex.java` to work properly. Finally we list the number of pages of the paper, this information is using the bibtex entry where possible, otherwise uses `pdfinfo` to extract the actual number of pages from the local copy. The final columns b and c provide links to the corresponding tables of extracted concepts and manual information. Note that the links to typically show the correct page, not do not necessarily scroll to the correct line in the table.

2.1 Papers from bibtex

Table 2: Works from bibtex (Total 326)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
BonninMNE24 BonninMNE24	C. Bonnin, A. Malapert, M. Nattaf, M. Espinouse	Toward a Global Constraint for Minimizing the Flowtime	Yes	[114]	2024	ICORES 2024	12	0	0	384	645
AalianPG23 AalianPG23	Y. Aalian, G. Pesant, M. Gamache	Optimization of Short-Term Underground Mine Planning Using Constraint Programming	Yes	[1]	2023	CP 2023	16	0	0	327	646
Bit-Monnot23 Bit-Monnot23	A. Bit-Monnot	Enhancing Hybrid CP-SAT Search for Disjunctive Scheduling	Yes	[96]	2023	ECAI 2023	8	0	0	373	647
EfthymiouY23 EfthymiouY23	N. Efthymiou, N. Yorke-Smith	Predicting the Optimal Period for Cyclic Hoist Scheduling Problems	Yes	[195]	2023	CPAIOR 2023	16	0	23	418	648
JuvinHHL23 JuvinHHL23	C. Juvin, E. Hebrard, L. Houssin, P. Lopez	An Efficient Constraint Programming Approach to Preemptive Job Shop Scheduling	Yes	[330]	2023	CP 2023	16	0	0	479	649
JuvinHL23 JuvinHL23	C. Juvin, L. Houssin, P. Lopez	Constraint Programming for the Robust Two-Machine Flow-Shop Scheduling Problem with Budgeted Uncertainty	Yes	[332]	2023	CPAIOR 2023	16	0	11	480	650
KameugneFND23 KameugneFND23	R. Kameugne, Séverine Betmbe Fetgo, T. Noulamo, Clémentin Tayou Djamégni	Horizontally Elastic Edge Finder Rule for Cumulative Constraint Based on Slack and Density	Yes	[338]	2023	CP 2023	17	0	0	483	651
KimCMLLP23 KimCMLLP23	D. Kim, Y. Choi, K. Moon, M. Lee, K. Lee, Michael L. Pinedo	Iterated Greedy Constraint Programming for Scheduling Steelmaking Continuous Casting	Yes	[347]	2023	CPAIOR 2023	16	0	13	488	652
Mehdizadeh-Somarin23 Mehdizadeh-Somarin23	Z. Mehdizadeh-Somarin, R. Tavakkoli-Moghaddam, M. Rohaninejad, Z. Hanzálek, Behdin Vahedi Nouri	A Constraint Programming Model for a Reconfigurable Job Shop Scheduling Problem with Machine Availability	Yes	[432]	2023	APMS 2023	14	0	0	532	653
PerezGSL23 PerezGSL23	G. Perez, G. Glorian, W. Suijlen, A. Lallouet	A Constraint Programming Model for Scheduling the Unloading of Trains in Ports	Yes	[498]	2023	ICTAI 2023	7	0	0	556	654
PovedaAA23 PovedaAA23	G. Poveda, N. Álvarez, C. Artigues	Partially Preemptive Multi Skill/Mode Resource-Constrained Project Scheduling with Generalized Precedence Relations and Calendars	Yes	[508]	2023	CP 2023	21	0	0	560	655
SquillaciPR23 SquillaciPR23	S. Squillaci, C. Pralet, S. Roussel	Scheduling Complex Observation Requests for a Constellation of Satellites: Large Neighborhood Search Approaches	Yes	[566]	2023	CPAIOR 2023	17	0	19	587	656
TardivoDFMP23 TardivoDFMP23	F. Tardivo, A. Dovier, A. Formisano, L. Michel, E. Pontelli	Constraint Propagation on GPU: A Case Study for the Cumulative Constraint	Yes	[577]	2023	CPAIOR 2023	18	0	30	593	657
TasselGS23 TasselGS23	P. Tassel, M. Gebser, K. Schekotihin	An End-to-End Reinforcement Learning Approach for Job-Shop Scheduling Problems Based on Constraint Programming	Yes	[578]	2023	ICAPS 2023	9	0	0	594	658
WangB23 WangB23	R. Wang, N. Barnier	Dynamic All-Different and Maximal Cliques Constraints for Fixed Job Scheduling	Yes	[631]	2023	ICTAI 2023	8	0	0	623	659
YuraszeckMC23 YuraszeckMC23	F. Yuraszeck, G. Mejía, D. Canut-de-Bon	A competitive constraint programming approach for the group shop scheduling problem	Yes	[651]	2023	ANT 2023	6	1	15	636	660
ArmstrongGOS22 ArmstrongGOS22	E. Armstrong, M. Garraffa, B. O’Sullivan, H. Simonis	A Two-Phase Hybrid Approach for the Hybrid Flexible Flowshop with Transportation Times	Yes	[27]	2022	CPAIOR 2022	13	0	14	339	661
BoudreaultSLQ22 BoudreaultSLQ22	R. Boudreault, V. Simard, D. Lafond, C. Quimper	A Constraint Programming Approach to Ship Refit Project Scheduling	Yes	[118]	2022	CP 2022	16	0	0	386	662
GeitzGSSW22 GeitzGSSW22	M. Geitz, C. Grozea, W. Steigerwald, R. Stöhr, A. Wolf	Solving the Extended Job Shop Scheduling Problem with AGVs - Classical and Quantum Approaches	Yes	[240]	2022	CPAIOR 2022	18	0	24	439	663
HebrardALLCMR22 HebrardALLCMR22	E. Hebrard, C. Artigues, P. Lopez, A. Lusson, Steve A. Chien, A. Maillard, Gregg R. Rabideau	An Efficient Approach to Data Transfer Scheduling for Long Range Space Exploration	Yes	[287]	2022	IJCAI 2022	7	0	0	459	664
JungblutK22 JungblutK22	P. Jungblut, D. Kranzlmüller	Optimal Schedules for High-Level Programming Environments on FPGAs with Constraint Programming	Yes	[329]	2022	IPDPS 2022	4	0	0	478	665

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LiFJZLL22 LiFJZLL22	X. Li, J. Fu, Z. Jia, Z. Zhao, S. Li, S. Liu	Constraint Programming for a Novel Integrated Optimization of Blocking Job Shop Scheduling and Variable-Speed Transfer Robot Assignment	Yes	[389]	2022	ICNSC 2022	6	0	31	509	666
LuoB22 LuoB22	Yiqing L. Luo, J. Christopher Beck	Packing by Scheduling: Using Constraint Programming to Solve a Complex 2D Cutting Stock Problem	Yes	[418]	2022	CPAIOR 2022	17	0	28	524	667
OuelletQ22 OuelletQ22	Y. Ouellet, C. Quimper	A MinCumulative Resource Constraint	Yes	[488]	2022	CPAIOR 2022	17	1	22	552	668
OujanaAYB22 OujanaAYB22	S. Oujana, L. Amodeo, F. Yalaoui, D. Brodard	Solving a realistic hybrid and flexible flow shop scheduling problem through constraint programming: industrial case in a packaging company	Yes	[489]	2022	CoDIT 2022	6	1	21	553	669
PopovicCGNC22 PopovicCGNC22	L. Popovic, A. Côté, M. Gaha, F. Nguewouo, Q. Cappart	Scheduling the Equipment Maintenance of an Electric Power Transmission Network Using Constraint Programming	Yes	[506]	2022	CP 2022	15	0	0	559	670
SvancaraB22 SvancaraB22	J. Svancara, R. Barták	Tackling Train Routing via Multi-agent Pathfinding and Constraint-based Scheduling	Yes	[571]	2022	ICAART 2022	8	0	0	589	671
Teppan22 Teppan22	Erich Christian Teppan	Types of Flexible Job Shop Scheduling: A Constraint Programming Experiment	Yes	[581]	2022	ICAART 2022	8	0	0	595	672
TouatBT22 TouatBT22	M. Touat, B. Benhamou, Fatima Benbouzid-Si Tayeb	A Constraint Programming Model for the Scheduling Problem with Flexible Maintenance under Human Resource Constraints	Yes	[594]	2022	ICAART 2022	8	0	0	602	673
WinterMMW22 WinterMMW22	F. Winter, S. Meiswinkel, N. Musliu, D. Walkiewicz	Modeling and Solving Parallel Machine Scheduling with Contamination Constraints in the Agricultural Industry	Yes	[637]	2022	CP 2022	18	0	0	626	674
ZhangBB22 ZhangBB22	J. Zhang, Giovanni Lo Bianco, J. Christopher Beck	Solving Job-Shop Scheduling Problems with QUBO-Based Specialized Hardware	Yes	[660]	2022	ICAPS 2022	9	0	0	637	675
ZhangJZL22 ZhangJZL22	H. Zhang, Y. Ji, Z. Zhao, S. Liu	Constraint Programming for Modeling and Solving a Hybrid Flow Shop Scheduling Problem	Yes	[659]	2022	ICNSC 2022	6	0	21	638	676
AntuoriHHEN21 AntuoriHHEN21	V. Antuori, E. Hebrard, M. Huguet, S. Essodaigui, A. Nguyen	Combining Monte Carlo Tree Search and Depth First Search Methods for a Car Manufacturing Workshop Scheduling Problem	Yes	[22]	2021	CP 2021	16	0	0	336	677
ArmstrongGOS21 ArmstrongGOS21	E. Armstrong, M. Garraffa, B. O’Sullivan, H. Simonis	The Hybrid Flexible Flowshop with Transportation Times	Yes	[26]	2021	CP 2021	18	1	0	338	678
ArtiguesHQT21 ArtiguesHQT21	C. Artigues, E. Hebrard, A. Quilliot, H. Toussaint	Multi-Mode RCPSP with Safety Margin Maximization: Models and Algorithms	Yes	[32]	2021	ICORES 2021	8	0	0	342	679
Astrand0F21 Astrand0F21	M. Åstrand, M. Johansson, Hamid Reza Feyzmahdavian	Short-Term Scheduling of Production Fleets in Underground Mines Using CP-Based LNS	Yes	[36]	2021	CPAIOR 2021	18	2	25	344	680
BenderWS21 BenderWS21	T. Bender, D. Wittwer, T. Schmidt	Applying Constraint Programming to the Multi-mode Scheduling Problem in Harvest Logistics	Yes	[84]	2021	ICCL 2021	16	1	16	366	681
GeibingerKKMMW21 GeibingerKKMMW21	T. Geibinger, L. Kletzander, M. Krainz, F. Mischek, N. Musliu, F. Winter	Physician Scheduling During a Pandemic	Yes	[236]	2021	CPAIOR 2021	10	0	6	436	682
GeibingerMM21 GeibingerMM21	T. Geibinger, F. Mischek, N. Musliu	Constraint Logic Programming for Real-World Test Laboratory Scheduling	Yes	[239]	2021	AAAI 2021	9	0	0	438	683
HanenKP21 HanenKP21	C. Hanen, Alix Munier Kordon, T. Pedersen	Two Deadline Reduction Algorithms for Scheduling Dependent Tasks on Parallel Processors	Yes	[279]	2021	CPAIOR 2021	17	1	24	457	684
HillTV21 HillTV21	A. Hill, J. Ticktin, Thomas W. M. Vossen	A Computational Study of Constraint Programming Approaches for Resource-Constrained Project Scheduling with Autonomous Learning Effects	Yes	[304]	2021	CPAIOR 2021	19	0	38	468	685
KlankeBYE21 KlankeBYE21	C. Klanke, Dominik R. Bleidorn, V. Yfantis, S. Engell	Combining Constraint Programming and Temporal Decomposition Approaches - Scheduling of an Industrial Formulation Plant	Yes	[348]	2021	CPAIOR 2021	16	3	13	489	686
KovacsTKSG21 KovacsTKSG21	B. Kovács, P. Tassel, W. Kohlenbrein, P. Schrott-Kostwein, M. Gebser	Utilizing Constraint Optimization for Industrial Machine Workload Balancing	Yes	[363]	2021	CP 2021	17	0	0	495	687

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LacknerMMWW21 LacknerMMWW21	M. Lackner, C. Mrkvicka, N. Musliu, D. Walkiewicz, F. Winter	Minimizing Cumulative Batch Processing Time for an Industrial Oven Scheduling Problem	Yes	[375]	2021	CP 2021	18	0	0	504	688
AntuoriHHEN20 AntuoriHHEN20	V. Antuori, E. Hebrard, M. Huguet, S. Essodaigui, A. Nguyen	Leveraging Reinforcement Learning, Constraint Programming and Local Search: A Case Study in Car Manufacturing	Yes	[21]	2020	CP 2020	16	3	8	335	689
BarzegaranZP20 BarzegaranZP20	M. Barzegaran, B. Zarrin, P. Pop	Quality-Of-Control-Aware Scheduling of Communication in TSN-Based Fog Computing Platforms Using Constraint Programming	Yes	[61]	2020	Fog-IoT 2020	9	0	0	356	690
GodetLHS20 GodetLHS20	A. Godet, X. Lorca, E. Hebrard, G. Simonin	Using Approximation within Constraint Programming to Solve the Parallel Machine Scheduling Problem with Additional Unit Resources	Yes	[249]	2020	AAAI 2020	8	1	0	445	691
GroleazNS20 GroleazNS20	L. Groleaz, Samba Ndojh Ndiaye, C. Solnon	Solving the Group Cumulative Scheduling Problem with CPO and ACO	Yes	[265]	2020	CP 2020	17	1	25	452	692
GroleazNS20a GroleazNS20a	L. Groleaz, Samba Ndojh Ndiaye, C. Solnon	ACO with automatic parameter selection for a scheduling problem with a group cumulative constraint	Yes	[264]	2020	GECCO 2020	9	3	28	453	693
Mercier-AubinGQ20 Mercier-AubinGQ20	A. Mercier-Aubin, J. Gaudreault, C. Quimper	Leveraging Constraint Scheduling: A Case Study to the Textile Industry	Yes	[439]	2020	CPAIOR 2020	13	2	13	534	694
NattafM20 NattafM20	M. Nattaf, A. Malapert	Filtering Rules for Flow Time Minimization in a Parallel Machine Scheduling Problem	Yes	[469]	2020	CP 2020	16	0	6	545	695
TangB20 TangB20	Tanya Y. Tang, J. Christopher Beck	CP and Hybrid Models for Two-Stage Batching and Scheduling	Yes	[575]	2020	CPAIOR 2020	16	6	12	592	696
ThomasKS20 ThomasKS20	C. Thomas, R. Kameugne, P. Schaus	Insertion Sequence Variables for Hybrid Routing and Scheduling Problems	Yes	[588]	2020	CPAIOR 2020	18	0	16	599	697
WangB20 WangB20	R. Wang, N. Barnier	Global Propagation of Transition Cost for Fixed Job Scheduling	Yes	[630]	2020	ECAI 2020	8	0	0	622	698
WessenCS20 WessenCS20	J. Wessén, M. Carlsson, C. Schulte	Scheduling of Dual-Arm Multi-tool Assembly Robots and Workspace Layout Optimization	Yes	[635]	2020	CPAIOR 2020	10	2	11	625	699
BadicaBIL19 BadicaBIL19	A. Badica, C. Badica, M. Ivanovic, D. Logofatu	Exploring the Space of Block Structured Scheduling Processes Using Constraint Logic Programming	Yes	[40]	2019	IDC 2019	11	2	6	346	700
BehrensLM19 BehrensLM19	Jan Kristof Behrens, R. Lange, M. Mansouri	A Constraint Programming Approach to Simultaneous Task Allocation and Motion Scheduling for Industrial Dual-Arm Manipulation Tasks	Yes	[76]	2019	ICRA 2019	7	12	18	362	701
BogaerdtW19 BogaerdtW19	Pim van den Bogaerdt, Mathijs de Weerd	Lower Bounds for Uniform Machine Scheduling Using Decision Diagrams	Yes	[609]	2019	CPAIOR 2019	16	1	16	377	702
ColT19 ColT19	Giacomo Da Col, Erich Christian Teppan	Industrial Size Job Shop Scheduling Tackled by Present Day CP Solvers	Yes	[157]	2019	CP 2019	17	11	12	404	703
FrimodigS19 FrimodigS19	S. Frimodig, C. Schulte	Models for Radiation Therapy Patient Scheduling	Yes	[223]	2019	CP 2019	17	3	26	427	704
FrohnerTR19 FrohnerTR19	N. Frohner, S. Teuschl, Günther R. Raidl	Casual Employee Scheduling with Constraint Programming and Metaheuristics	Yes	[225]	2019	EUROCAST 2019	9	0	6	428	705
GalleguillosKSB19 GalleguillosKSB19	C. Galleguillos, Z. Kiziltan, A. Sirbu, Özalp Babaoglu	Constraint Programming-Based Job Dispatching for Modern HPC Applications	Yes	[227]	2019	CP 2019	18	1	27	430	706
GeibingerMM19 GeibingerMM19	T. Geibinger, F. Mischek, N. Musliu	Investigating Constraint Programming for Real World Industrial Test Laboratory Scheduling	Yes	[238]	2019	CPAIOR 2019	16	6	15	437	707
KucukY19 KucukY19	M. Küçük, Seyda Topaloglu Yildiz	A Constraint Programming Approach for Agile Earth Observation Satellite Scheduling Problem	Yes	[370]	2019	RAST 2019	5	0	0	500	708
LiuLH19 LiuLH19	K. Liu, S. Löffler, P. Hofstedt	Solving the Talent Scheduling Problem by Parallel Constraint Programming	Yes	[397]	2019	AIAI 2019	9	1	5	517	709
MalapertN19 MalapertN19	A. Malapert, M. Nattaf	A New CP-Approach for a Parallel Machine Scheduling Problem with Time Constraints on Machine Qualifications	Yes	[425]	2019	CPAIOR 2019	17	1	7	530	710

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MurinR19	MurinR19	S. Murín, H. Rudová	Scheduling of Mobile Robots Using Constraint Programming	Yes	[454]	2019	CP 2019	16	2	22	541	711
ParkUJR19	ParkUJR19	H. Park, J. Um, J. Jung, M. Ruskowski	Developing a Production Scheduling System for Modular Factory Using Constraint Programming	Yes	[495]	2019	RAAD 2019	8	1	3	554	712
Tom19	Tom19	M. Tom	Fuzzy Multi-Constraint Programming Model for Weekly Meals Scheduling	Yes	[591]	2019	FUZZ-IEEE 2019	6	0	21	601	713
YangSS19	YangSS19	M. Yang, A. Schutt, Peter J. Stuckey	Time Table Edge Finding with Energy Variables	Yes	[646]	2019	CPAIOR 2019	10	1	14	634	714
AntunesABD18	AntunesABD18	M. Antunes, V. Armant, Kenneth N. Brown, Daniel A. Desmond, G. Escamocher, A. George, D. Grimes, M. O’Keeffe, Y. Lin, B. O’Sullivan, C. Ozturk, L. Quesada, M. Siala, H. Simonis, N. Wilson	Assigning and Scheduling Service Visits in a Mixed Urban/Rural Setting	Yes	[19]	2018	ICTAI 2018	8	1	24	334	715
ArbaouiY18	ArbaouiY18	T. Arbaoui, F. Yalaoui	Solving the Unrelated Parallel Machine Scheduling Problem with Additional Resources Using Constraint Programming	Yes	[24]	2018	ACIHDS 2018	10	2	14	337	716
AstrandJZ18	AstrandJZ18	M. Åstrand, M. Johansson, A. Zanarini	Fleet Scheduling in Underground Mines Using Constraint Programming	Yes	[37]	2018	CPAIOR 2018	9	9	10	345	717
BenediktSMVH18	BenediktSMVH18	O. Benedikt, P. Sucha, I. Módos, M. Vlk, Z. Hanzálek	Energy-Aware Production Scheduling with Power-Saving Modes	Yes	[87]	2018	CPAIOR 2018	10	2	12	367	718
CappartTSR18	CappartTSR18	Q. Cappart, C. Thomas, P. Schaus, L. Rousseau	A Constraint Programming Approach for Solving Patient Transportation Problems	Yes	[131]	2018	CP 2018	17	6	31	391	719
DemirovicS18	DemirovicS18	E. Demirovic, Peter J. Stuckey	Constraint Programming for High School Timetabling: A Scheduling-Based Model with Hot Starts	Yes	[178]	2018	CPAIOR 2018	18	4	16	411	720
He0GLW18	He0GLW18	S. He, M. Wallace, G. Gange, A. Liebman, C. Wilson	A Fast and Scalable Algorithm for Scheduling Large Numbers of Devices Under Real-Time Pricing	Yes	[286]	2018	CP 2018	18	6	26	458	721
HoYCLLC18	HoYCLLC18	T. Ho, J. Yao, Y. Chang, F. Lai, J. Lai, S. Chu, W. Liao, H. Chiu	A Platform for Dynamic Optimal Nurse Scheduling Based on Integer Linear Programming along with Multiple Criteria Constraints	Yes	[305]	2018	AICCC 2018	6	2	14	469	722
KameugneFGOQ18	KameugneFGOQ18	R. Kameugne, Séverine Betmbe Fetgo, V. Gingras, Y. Ouellet, C. Quimper	Horizontally Elastic Not-First/Not-Last Filtering Algorithm for Cumulative Resource Constraint	Yes	[337]	2018	CPAIOR 2018	17	1	12	482	723
Laborie18a	Laborie18a	P. Laborie	An Update on the Comparison of MIP, CP and Hybrid Approaches for Mixed Resource Allocation and Scheduling	Yes	[373]	2018	CPAIOR 2018	9	18	10	503	724
MusliuSS18	MusliuSS18	N. Musliu, A. Schutt, Peter J. Stuckey	Solver Independent Rotating Workforce Scheduling	Yes	[457]	2018	CPAIOR 2018	17	7	23	544	725
NishikawaSTT18	NishikawaSTT18	H. Nishikawa, K. Shimada, I. Taniguchi, H. Tomiyama	Scheduling of Malleable Fork-Join Tasks with Constraint Programming	Yes	[472]	2018	CANDAR 2018	6	2	14	546	726
NishikawaSTT18a	NishikawaSTT18a	H. Nishikawa, K. Shimada, I. Taniguchi, H. Tomiyama	Scheduling of Malleable Tasks Based on Constraint Programming	Yes	[473]	2018	TENCON 2018	6	1	9	547	727
OuelletQ18	OuelletQ18	Y. Ouellet, C. Quimper	A $O(n \setminus \log ^2 n)$ Checker and $O(n^2 \setminus \log n)$ Filtering Algorithm for the Energetic Reasoning	Yes	[487]	2018	CPAIOR 2018	18	6	16	551	728
RiahiNS018	RiahiNS018	V. Riahi, M. A. Hakim Newton, K. Su, A. Sattar	Local Search for Flowshops with Setup Times and Blocking Constraints	Yes	[519]	2018	ICAPS 2018	9	0	0	567	729
TanT18	TanT18	Y. Tan, D. Terekhov	Logic-Based Benders Decomposition for Two-Stage Flexible Flow Shop Scheduling with Unrelated Parallel Machines	Yes	[574]	2018	Canadian AI 2018	12	1	23	591	730
Tesch18	Tesch18	A. Tesch	Improving Energetic Propagations for Cumulative Scheduling	Yes	[585]	2018	CP 2018	17	5	21	597	731
BofillCSV17	BofillCSV17	M. Bofill, J. Coll, J. Suy, M. Villaret	An Efficient SMT Approach to Solve MRCPSP/max Instances with Tight Constraints on Resources	Yes	[103]	2017	CP 2017	9	1	12	374	732
CappartS17	CappartS17	Q. Cappart, P. Schaus	Rescheduling Railway Traffic on Real Time Situations Using Time-Interval Variables	Yes	[130]	2017	CPAIOR 2017	16	2	28	390	733

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CohenHB17 CohenHB17	E. Cohen, G. Huang, J. Christopher Beck	(I Can Get) Satisfaction: Preference-Based Scheduling for Concert-Goers at Multi-venue Music Festivals	Yes	[155]	2017	SAT 2017	17	1	12	403	734
GelainPRVW17 GelainPRVW17	M. Gelain, Maria Silvia Pini, F. Rossi, Kristen Brent Venable, T. Walsh	A Local Search Approach for Incomplete Soft Constraint Problems: Experimental Results on Meeting Scheduling Problems	Yes	[241]	2017	CPAIOR 2017	16	1	5	440	735
GoldwaserS17 GoldwaserS17	A. Goldwaser, A. Schutt	Optimal Torpedo Scheduling	Yes	[252]	2017	CP 2017	16	0	10	446	736
Hooker17 Hooker17	John N. Hooker	Job Sequencing Bounds from Decision Diagrams	Yes	[313]	2017	CP 2017	14	6	24	473	737
KletzanderM17 KletzanderM17	L. Kletzander, N. Musliu	A Multi-stage Simulated Annealing Algorithm for the Torpedo Scheduling Problem	Yes	[349]	2017	CPAIOR 2017	15	1	9	490	738
LiuCGM17 LiuCGM17	T. Liu, Roberto Di Cosmo, M. Gabbrielli, J. Mauro	NightSplitter: A Scheduling Tool to Optimize (Sub)group Activities	Yes	[398]	2017	CP 2017	17	0	15	515	739
Madi-WambaLOBM17 Madi-WambaLOBM17	G. Madi-Wamba, Y. Li, A. Orgerie, N. Beldiceanu, J. Menaud	Green Energy Aware Scheduling Problem in Virtualized Datacenters	Yes	[420]	2017	ICPADS 2017	8	1	8	527	740
MossigeGSMC17 MossigeGSMC17	M. Mossige, A. Gotlieb, H. Spieker, H. Meling, M. Carlsson	Time-Aware Test Case Execution Scheduling for Cyber-Physical Systems	Yes	[450]	2017	CP 2017	18	6	33	538	741
Pralet17 Pralet17	C. Pralet	An Incomplete Constraint-Based System for Scheduling with Renewable Resources	Yes	[509]	2017	CP 2017	19	1	30	561	742
TranVNB17a TranVNB17a	Tony T. Tran, Tiago Stegun Vaquero, G. Nejat, J. Christopher Beck	Robots in Retirement Homes: Applying Off-the-Shelf Planning and Scheduling to a Team of Assistive Robots (Extended Abstract)	Yes	[602]	2017	IJCAI 2017	5	1	0	607	743
YoungFS17 YoungFS17	Kenneth D. Young, T. Feydy, A. Schutt	Constraint Programming Applied to the Multi-Skill Project Scheduling Problem	Yes	[648]	2017	CP 2017	10	6	21	635	744
AmadiniGM16 AmadiniGM16	R. Amadini, M. Gabbrielli, J. Mauro	Parallelizing Constraint Solvers for Hard RCPSP Instances	Yes	[17]	2016	LION 2016	7	2	16	332	745
BonfiettiZLM16 BonfiettiZLM16	A. Bonfietti, A. Zanarini, M. Lombardi, M. Milano	The Multirate Resource Constraint	Yes	[113]	2016	CP 2016	17	0	11	383	746
BoothNB16 BoothNB16	Kyle E. C. Booth, G. Nejat, J. Christopher Beck	A Constraint Programming Approach to Multi-Robot Task Allocation and Scheduling in Retirement Homes	Yes	[115]	2016	CP 2016	17	21	24	385	747
BridiLBBM16 BridiLBBM16	T. Bridi, M. Lombardi, A. Bartolini, L. Benini, M. Milano	DARDIS: Distributed And Randomized Dispatching and Scheduling	Yes	[122]	2016	ECAI 2016	2	0	0	387	748
CatusseCBL16 CatusseCBL16	N. Catusse, H. Cambazard, N. Brauner, P. Lemaire, B. Penz, A. Lagrange, P. Rubini	A Branch-and-Price Algorithm for Scheduling Observations on a Telescope	Yes	[140]	2016	IJCAI 2016	7	0	0	394	749
CauwelaertDMS16 CauwelaertDMS16	Sascha Van Cauwelaert, C. Dejemeppe, J. Monette, P. Schaus	Efficient Filtering for the Unary Resource with Family-Based Transition Times	Yes	[141]	2016	CP 2016	16	1	12	395	750
FontaineMH16 FontaineMH16	D. Fontaine, Laurent D. Michel, Pascal Van Hentenryck	Parallel Composition of Scheduling Solvers	Yes	[217]	2016	CPAIOR 2016	11	3	0	424	751
GilesH16 GilesH16	K. Giles, Willem-Jan van Hoeve	Solving a Supply-Delivery Scheduling Problem with Constraint Programming	Yes	[245]	2016	CP 2016	16	2	6	442	752
GingrasQ16 GingrasQ16	V. Gingras, C. Quimper	Generalizing the Edge-Finder Rule for the Cumulative Constraint	Yes	[246]	2016	IJCAI 2016	7	0	0	443	753
HechingH16 HechingH16	Aliza R. Heching, John N. Hooker	Scheduling Home Hospice Care with Logic-Based Benders Decomposition	Yes	[290]	2016	CPAIOR 2016	11	10	0	461	754
JelinekB16 JelinekB16	J. Jelfnek, R. Barták	Using Constraint Logic Programming to Schedule Solar Array Operations on the International Space Station	Yes	[327]	2016	PADL 2016	10	0	5	477	755
LimHTB16 LimHTB16	B. Lim, Hassan L. Hijazi, S. Thiébaux, Menkes van den Briel	Online HVAC-Aware Occupancy Scheduling with Adaptive Temperature Control	Yes	[392]	2016	CP 2016	18	2	23	511	756
LuoVLBM16 LuoVLBM16	R. Luo, Richard Anthony Valenzano, Y. Li, J. Christopher Beck, Sheila A. McIlraith	Using Metric Temporal Logic to Specify Scheduling Problems	Yes	[417]	2016	KR 2016	4	0	0	525	757
Madi-WambaB16 Madi-WambaB16	G. Madi-Wamba, N. Beldiceanu	The TaskIntersection Constraint	Yes	[419]	2016	CPAIOR 2016	16	0	0	526	758

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SchuttS16	SchuttS16	A. Schutt, Peter J. Stuckey	Yes	[545]	2016	CP 2016	17	3	23	576	759
SzerediS16	SzerediS16	R. Szeredi, A. Schutt	Yes	[572]	2016	CP 2016	10	9	14	590	760
Tesch16	Tesch16	A. Tesch	Yes	[584]	2016	CP 2016	27	4	14	596	761
TranDRFWOVB16	TranDRFWOVB16	Tony T. Tran, M. Do, Eleanor Gilbert Rieffel, J. Frank, Z. Wang, B. O’Gorman, D. Venturelli, J. Christopher Beck	Yes	[598]	2016	SOCS 2016	9	3	0	605	762
TranWDRFOVB16	TranWDRFOVB16	Tony T. Tran, Z. Wang, M. Do, Eleanor Gilbert Rieffel, J. Frank, B. O’Gorman, D. Venturelli, J. Christopher Beck	Yes	[603]	2016	AAAI 2016	9	0	0	608	763
BartakV15	BartakV15	R. Barták, M. Vlk	Yes	[59]	2015	ICAART 2015	12	0	0	354	764
BofillGSV15	BofillGSV15	M. Bofill, M. Garcia, J. Suy, M. Villaret	Yes	[105]	2015	CPAIOR 2015	9	7	8	376	765
BurtLPS15	BurtLPS15	Christina N. Burt, N. Lipovetzky, Adrian R. Pearce, Peter J. Stuckey	Yes	[125]	2015	CPAIOR 2015	17	0	8	389	766
DejemeppeCS15	DejemeppeCS15	C. Dejemeppe, Sascha Van Cauwelaert, P. Schaus	Yes	[174]	2015	CP 2015	16	5	11	409	767
EvenSH15	EvenSH15	C. Even, A. Schutt, Pascal Van Hentenryck	Yes	[204]	2015	CP 2015	18	3	12	422	768
GayHLS15	GayHLS15	S. Gay, R. Hartert, C. Lecoutre, P. Schaus	Yes	[231]	2015	CP 2015	9	20	15	432	769
GayHS15	GayHS15	S. Gay, R. Hartert, P. Schaus	Yes	[232]	2015	CP 2015	9	10	9	433	770
GayHS15a	GayHS15a	S. Gay, R. Hartert, P. Schaus	Yes	[233]	2015	CPAIOR 2015	16	5	12	434	771
KreterSS15	KreterSS15	S. Kreter, A. Schutt, Peter J. Stuckey	Yes	[364]	2015	CP 2015	17	7	16	498	772
LimBTBB15	LimBTBB15	B. Lim, Menkes van den Briel, S. Thiébaux, R. Bent, S. Backhaus	Yes	[393]	2015	CPAIOR 2015	15	4	18	510	773
LombardiBM15	LombardiBM15	M. Lombardi, A. Bonfietti, M. Milano	Yes	[401]	2015	CP 2015	16	0	8	518	774
MelgarejoLS15	MelgarejoLS15	P. Aguiar-Melgarejo, P. Laborie, C. Solnon	Yes	[11]	2015	CPAIOR 2015	17	14	17	533	775
MurphyMB15	MurphyMB15	Seán Óg Murphy, O. Manzano, Kenneth N. Brown	Yes	[455]	2015	CP 2015	17	1	20	542	776
PesantRR15	PesantRR15	G. Pesant, G. Rix, L. Rousseau	Yes	[500]	2015	CPAIOR 2015	16	1	7	557	777
PraletLJ15	PraletLJ15	C. Pralet, S. Lemai-Chenevier, J. Jaubert	Yes	[510]	2015	CP 2015	16	0	8	562	778
SialaAH15	SialaAH15	M. Siala, C. Artigues, E. Hebrard	Yes	[555]	2015	CP 2015	10	4	17	580	779
VilimLS15	VilimLS15	P. Vilím, P. Laborie, P. Shaw	Yes	[623]	2015	CPAIOR 2015	17	31	19	620	780
ZhouGL15	ZhouGL15	J. Zhou, Y. Guo, G. Li	Yes	[666]	2015	FSKD 2015	5	0	16	641	781
AlesioNBG14	AlesioNBG14	Stefano Di Alesio, S. Nejati, Lionel C. Briand, A. Gotlieb	Yes	[182]	2014	CP 2014	18	3	19	331	782
BartoliniBBLM14	BartoliniBBLM14	A. Bartolini, A. Borghesi, T. Bridi, M. Lombardi, M. Milano	Yes	[60]	2014	CP 2014	16	12	3	355	783

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BessiereHMQW14 BessiereHMQW14	C. Bessiere, E. Hebrard, M. Ménard, C. Quimper, T. Walsh	Buffered Resource Constraint: Algorithms and Complexity	Yes	[93]	2014	CPAIOR 2014	16	1	3	371	784
BofillEGPSV14 BofillEGPSV14	M. Bofill, J. Espasa, M. Garcia, M. Palahí, J. Suy, M. Villaret	Scheduling B2B Meetings	Yes	[104]	2014	CP 2014	16	3	10	375	785
BonfiettiLM14 BonfiettiLM14	A. Bonfietti, M. Lombardi, M. Milano	Disregarding Duration Uncertainty in Partial Order Schedules? Yes, We Can!	Yes	[111]	2014	CPAIOR 2014	16	3	12	381	786
DejemeppeD14 DejemeppeD14	C. Dejemeppe, Y. Deville	Continuously Degrading Resource and Interval Dependent Activity Durations in Nuclear Medicine Patient Scheduling	Yes	[175]	2014	CPAIOR 2014	9	0	7	410	787
DerrienP14 DerrienP14	A. Derrien, T. Petit	A New Characterization of Relevant Intervals for Energetic Reasoning	Yes	[180]	2014	CP 2014	9	14	0	412	788
DerrienPZ14 DerrienPZ14	A. Derrien, T. Petit, S. Zampelli	A Declarative Paradigm for Robust Cumulative Scheduling	Yes	[181]	2014	CP 2014	9	3	10	413	789
DoulabiRP14 DoulabiRP14	Sayed Hossein Hashemi Doulabi, L. Rousseau, G. Pesant	A Constraint Programming-Based Column Generation Approach for Operating Room Planning and Scheduling	Yes	[190]	2014	CPAIOR 2014	9	3	10	416	790
FriedrichFMRSS14 FriedrichFMRSS14	G. Friedrich, M. Frühstück, V. Mersheeva, A. Ryabokon, M. Sander, A. Starzacher, E. Teppan	Representing Production Scheduling with Constraint Answer Set Programming	No	[222]	2014	GOR 2014	7	3	2	No	791
GaySS14 GaySS14	S. Gay, P. Schaus, Vivian De Smedt	Continuous Casting Scheduling with Constraint Programming	Yes	[234]	2014	CP 2014	15	7	11	435	792
HoundjiSWD14 HoundjiSWD14	Vinasétan Ratheil Houndji, P. Schaus, Laurence A. Wolsey, Y. Deville	The StockingCost Constraint	Yes	[319]	2014	CP 2014	16	5	7	475	793
KoschB14 KoschB14	S. Kosch, J. Christopher Beck	A New MIP Model for Parallel-Batch Scheduling with Non-identical Job Sizes	Yes	[355]	2014	CPAIOR 2014	16	4	18	492	794
LipovetzkyBPS14 LipovetzkyBPS14	N. Lipovetzky, Christina N. Burt, Adrian R. Pearce, Peter J. Stuckey	Planning for Mining Operations with Time and Resource Constraints	Yes	[396]	2014	ICAPS 2014	9	0	0	514	795
LouieVNB14 LouieVNB14	Wing-Yue Geoffrey Louie, Tiago Stegun Vaquero, G. Nejat, J. Christopher Beck	An autonomous assistive robot for planning, scheduling and facilitating multi-user activities	Yes	[414]	2014	ICRA 2014	7	16	9	523	796
BonfiettiLM13 BonfiettiLM13	A. Bonfietti, M. Lombardi, M. Milano	De-Cycling Cyclic Scheduling Problems	Yes	[110]	2013	ICAPS 2013	5	0	0	380	797
ChuGNSW13 ChuGNSW13	G. Chu, S. Gaspers, N. Narodytska, A. Schutt, T. Walsh	On the Complexity of Global Scheduling Constraints under Structural Restrictions	Yes	[148]	2013	IJCAI 2013	7	0	0	398	798
CireCH13 CireCH13	André A. Ciré, E. Coban, John N. Hooker	Mixed Integer Programming vs. Logic-Based Benders Decomposition for Planning and Scheduling	Yes	[150]	2013	CPAIOR 2013	7	3	23	400	799
GuSS13 GuSS13	H. Gu, A. Schutt, Peter J. Stuckey	A Lagrangian Relaxation Based Forward-Backward Improvement Heuristic for Maximising the Net Present Value of Resource-Constrained Projects	Yes	[267]	2013	CPAIOR 2013	7	10	24	455	800
HeinzKB13 HeinzKB13	S. Heinz, W. Ku, J. Christopher Beck	Recent Improvements Using Constraint Integer Programming for Resource Allocation and Scheduling	Yes	[293]	2013	CPAIOR 2013	16	9	15	463	801
KelarevaTK13 KelarevaTK13	E. Kelareva, K. Tierney, P. Kilby	CP Methods for Scheduling and Routing with Time-Dependent Task Costs	Yes	[342]	2013	CPAIOR 2013	17	16	28	485	802
LetortCB13 LetortCB13	A. Letort, M. Carlsson, N. Beldiceanu	A Synchronized Sweep Algorithm for the <i>k-dimensional cumulative</i> Constraint	Yes	[386]	2013	CPAIOR 2013	16	3	10	508	803
LombardiIM13 LombardiIM13	M. Lombardi, M. Milano	A Min-Flow Algorithm for Minimal Critical Set Detection in Resource Constrained Project Scheduling	Yes	[408]	2013	ICAPS 2013	2	0	0	522	804
MalapertCGJLR13 MalapertCGJLR13	A. Malapert, H. Cambazard, C. Guéret, N. Jussien, A. Langevin, L. Rousseau	An Optimal Constraint Programming Approach to the Open-Shop Problem	Yes	[424]	2013	ICAPS 2013	2	0	0	529	805
OuelletQ13 OuelletQ13	P. Ouellet, C. Quimper	Time-Table Extended-Edge-Finding for the Cumulative Constraint	Yes	[486]	2013	CP 2013	16	12	14	550	806
SchuttFS13 SchuttFS13	A. Schutt, T. Feydy, Peter J. Stuckey	Scheduling Optional Tasks with Explanation	Yes	[539]	2013	CP 2013	17	10	20	573	807
SchuttFS13a SchuttFS13a	A. Schutt, T. Feydy, Peter J. Stuckey	Explaining Time-Table-Edge-Finding Propagation for the Cumulative Resource Constraint	Yes	[538]	2013	CPAIOR 2013	17	20	27	574	808

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TranTDB13 TranTDB13	Tony T. Tran, D. Terekhov, Douglas G. Down, J. Christopher Beck	Hybrid Queueing Theory and Scheduling Models for Dynamic Environments with Sequence-Dependent Setup Times	Yes	[600]	2013	ICAPS 2013	9	0	0	606	809
BillautHL12 BillautHL12	J. Billaut, E. Hebrard, P. Lopez	Complete Characterization of Near-Optimal Sequences for the Two-Machine Flow Shop Scheduling Problem	Yes	[95]	2012	CPAIOR 2012	15	1	19	372	810
BonfiettiLBM12 BonfiettiLBM12	A. Bonfietti, M. Lombardi, L. Benini, M. Milano	Global Cyclic Cumulative Constraint	Yes	[108]	2012	CPAIOR 2012	16	2	11	379	811
BonfiettiM12 BonfiettiM12	A. Bonfietti, M. Milano	A Constraint-based Approach to Cyclic Resource-Constrained Scheduling Problem	Yes	[112]	2012	DC SIAAI 2012	3	0	0	382	812
GuSW12 GuSW12	H. Gu, Peter J. Stuckey, Mark G. Wallace	Maximising the Net Present Value of Large Resource-Constrained Projects	Yes	[269]	2012	CP 2012	15	5	20	456	813
HeinzB12 HeinzB12	S. Heinz, J. Christopher Beck	Reconsidering Mixed Integer Programming and MIP-Based Hybrids for Scheduling	Yes	[292]	2012	CPAIOR 2012	17	8	21	462	814
IfrimOS12 IfrimOS12	G. Ifrim, B. O'Sullivan, H. Simonis	Properties of Energy-Price Forecasts for Scheduling	Yes	[322]	2012	CP 2012	16	6	20	476	815
LetortBC12 LetortBC12	A. Letort, N. Beldiceanu, M. Carlsson	A Scalable Sweep Algorithm for the cumulative Constraint	Yes	[385]	2012	CP 2012	16	18	12	507	816
RendlPHPR12 RendlPHPR12	A. Rendl, M. Prandtstetter, G. Hiermann, J. Puchinger, Günther R. Raidl	Hybrid Heuristics for Multimodal Homecare Scheduling	Yes	[518]	2012	CPAIOR 2012	17	14	14	566	817
SchuttCSW12 SchuttCSW12	A. Schutt, G. Chu, Peter J. Stuckey, Mark G. Wallace	Maximising the Net Present Value for Resource-Constrained Project Scheduling	Yes	[537]	2012	CPAIOR 2012	17	18	21	572	818
SerraNM12 SerraNM12	T. Serra, G. Nishioka, Fernando J. M. Marcellino	The Offshore Resources Scheduling Problem: Detailing a Constraint Programming Approach	Yes	[548]	2012	CP 2012	17	0	8	579	819
SimoninAHL12 SimoninAHL12	G. Simonin, C. Artigues, E. Hebrard, P. Lopez	Scheduling Scientific Experiments on the Rosetta/Philae Mission	Yes	[556]	2012	CP 2012	15	3	8	581	820
TranB12 TranB12	Tony T. Tran, J. Christopher Beck	Logic-based Benders Decomposition for Alternative Resource Scheduling with Sequence Dependent Setups	Yes	[597]	2012	ECAI 2012	6	0	0	604	821
ZhangLS12 ZhangLS12	X. Zhang, Z. Lv, X. Song	Model and Solution for Hot Strip Rolling Scheduling Problem Based on Constraint Programming Method	Yes	[663]	2012	CIT 2012	4	1	3	639	822
BajestaniB11 BajestaniB11	Maliheh Aramon Bajestani, J. Christopher Beck	Scheduling an Aircraft Repair Shop	Yes	[41]	2011	ICAPS 2011	8	0	0	347	823
BonfiettiLBM11 BonfiettiLBM11	A. Bonfietti, M. Lombardi, L. Benini, M. Milano	A Constraint Based Approach to Cyclic RCPSP	Yes	[107]	2011	CP 2011	15	3	14	378	824
ChapadosJR11 ChapadosJR11	N. Chapados, M. Joliveau, L. Rousseau	Retail Store Workforce Scheduling by Expected Operating Income Maximization	Yes	[146]	2011	CPAIOR 2011	6	5	12	397	825
ClercqPBJ11 ClercqPBJ11	Alexis De Clercq, T. Petit, N. Beldiceanu, N. Jussien	Filtering Algorithms for Discrete Cumulative Problems with Overloads of Resource	Yes	[152]	2011	CP 2011	16	3	11	401	826
EdisO11 EdisO11	Emrah B. Edis, C. Oguz	Parallel Machine Scheduling with Additional Resources: A Lagrangian-Based Constraint Programming Approach	Yes	[192]	2011	CPAIOR 2011	7	5	16	417	827
GrimesH11 GrimesH11	D. Grimes, E. Hebrard	Models and Strategies for Variants of the Job Shop Scheduling Problem	Yes	[259]	2011	CP 2011	17	5	18	450	828
HeinzS11 HeinzS11	S. Heinz, J. Schulz	Explanations for the Cumulative Constraint: An Experimental Study	Yes	[295]	2011	SEA 2011	10	5	12	464	829
HermenierDL11 HermenierDL11	F. Hermenier, S. Demasse, X. Lorca	Bin Repacking Scheduling in Virtualized Datacenters	Yes	[302]	2011	CP 2011	15	28	5	467	830
KameugneFSN11 KameugneFSN11	R. Kameugne, Laure Pauline Fotso, Joseph D. Scott, Y. Ngo-Kateu	A Quadratic Edge-Finding Filtering Algorithm for Cumulative Resource Constraints	Yes	[339]	2011	CP 2011	15	7	9	484	831
LahimerLH11 LahimerLH11	A. Lahimer, P. Lopez, M. Haouari	Climbing Depth-Bounded Adjacent Discrepancy Search for Solving Hybrid Flow Shop Scheduling Problems with Multiprocessor Tasks	Yes	[377]	2011	CPAIOR 2011	14	3	15	505	832
LombardiBMB11 LombardiBMB11	M. Lombardi, A. Bonfietti, M. Milano, L. Benini	Precedence Constraint Posting for Cyclic Scheduling Problems	Yes	[402]	2011	CPAIOR 2011	17	1	13	519	833

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SimonisH11	SimonisH11	H. Simonis, T. Hadzic	Yes	[564]	2011	CSCLP 2011	14	3	9	586	834
Vilim11	Vilim11	P. Vilím	Yes	[620]	2011	CPAIOR 2011	16	28	6	618	835
Wolf11	Wolf11	A. Wolf	Yes	[640]	2011	CSCLP 2011	17	5	19	630	836
ZibranR11	ZibranR11	Minhaz F. Zibran, Chanchal K. Roy	Yes	[669]	2011	ICPC 2011	4	17	18	643	837
ZibranR11a	ZibranR11a	Minhaz F. Zibran, Chanchal K. Roy	Yes	[670]	2011	SCAM 2011	10	26	27	644	838
BertholdH10	BertholdH10	T. Berthold, S. Heinz, Marco E. Lübbecke, Rolf	Yes	[92]	2010	CPAIOR 2010	5	28	10	370	839
BertholdH10	BertholdH10	H. Möhring, J. Schulz	Yes	[153]	2010	CPAIOR 2010	5	9	9	402	840
CobanH10	CobanH10	E. Coban, John N. Hooker	Yes	[165]	2010	CPAIOR 2010	5	9	2	407	841
Davenport10	Davenport10	Andrew J. Davenport	Yes	[258]	2010	CPAIOR 2010	15	13	20	449	842
GrimesH10	GrimesH10	D. Grimes, E. Hebrard	Yes	[405]	2010	CP 2010	15	1	11	521	843
LombardiM10	LombardiM10	M. Lombardi, M. Milano	Yes	[421]	2010	ICNC 2010	5	1	3	528	844
MakMS10	MakMS10	K. Mak, J. Ma, W. Su	Yes	[546]	2010	CP 2010	15	13	14	577	845
SchuttW10	SchuttW10	A. Schutt, A. Wolf	Yes	[569]	2010	GreenCom 2010	6	4	8	588	846
SunLYL10	SunLYL10	Z. Sun, H. Li, M. Yao, N. Li	Yes	[5]	2009	CPAIOR 2009	2	3	2	329	847
Acuna-AgostMFG09	Acuna-AgostMFG09	R. Acuna-Agost, P. Michelon, D. Feillet, S. Gueye	Yes	[29]	2009	ATMOS 2009	13	0	0	340	848
AronssonBK09	AronssonBK09	M. Aronsson, M. Bohlin, P. Kreuger	Yes	[45]	2009	CP 2009	1	0	0	348	849
Baptiste09	Baptiste09	P. Baptiste	Yes	[261]	2009	CP 2009	9	15	12	451	850
GrimesHM09	GrimesHM09	D. Grimes, E. Hebrard, A. Malapert	Yes	[372]	2009	CPAIOR 2009	15	53	2	502	851
Laborie09	Laborie09	P. Laborie	Yes	[403]	2009	CP 2009	15	7	12	520	852
LombardiM09	LombardiM09	M. Lombardi, M. Milano	Yes	[447]	2009	ICAPS 2009	8	0	0	537	853
MonetteDH09	MonetteDH09	J. Monette, Y. Deville, Pascal Van Hentenryck	Yes	[540]	2009	CP 2009	16	34	11	575	854
SchuttFSW09	SchuttFSW09	A. Schutt, T. Feydy, Peter J. Stuckey, M. Wallace	Yes	[586]	2009	HM 2009	15	13	12	598	855
ThiruvadyBME09	ThiruvadyBME09	Dhananjay R. Thiruvady, C. Blum, B. Meyer, Andreas T. Ernst	Yes	[618]	2009	CP 2009	15	25	4	616	856
Vilim09	Vilim09	P. Vilím	Yes	[619]	2009	CPAIOR 2009	15	13	4	617	857
Vilim09a	Vilim09a	P. Vilím	Yes	[642]	2009	INAP 2009	17	1	12	629	858
Wolf09	Wolf09	A. Wolf, G. Schrader	Yes								

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BarlattCG08 BarlattCG08	A. Barlatt, Amy Mainville Cohn, Oleg Yu. Gusikhin	A Hybrid Approach for Solving Shift-Selection and Task-Sequencing Problems	Yes	[52]	2008	CPAIOR 2008	5	1	9	351	859
BeldiceanuCP08 BeldiceanuCP08	N. Beldiceanu, M. Carlsson, E. Poder	New Filtering for the cumulative Constraint in the Context of Non-Overlapping Rectangles	Yes	[81]	2008	CPAIOR 2008	15	8	9	364	860
BeniniLMR08 BeniniLMR08	L. Benini, M. Lombardi, M. Milano, M. Ruggiero	A Constraint Programming Approach for Allocation and Scheduling on the CELL Broadband Engine	Yes	[89]	2008	CP 2008	15	7	23	369	861
DoomsH08 DoomsH08	G. Dooms, Pascal Van Hentenryck	Gap Reduction Techniques for Online Stochastic Project Scheduling	Yes	[187]	2008	CPAIOR 2008	16	1	2	415	862
HentenryckM08 HentenryckM08	Pascal Van Hentenryck, L. Michel	The Steel Mill Slab Design Problem Revisited	Yes	[301]	2008	CPAIOR 2008	5	13	3	466	863
LauLN08 LauLN08	Hoong Chuin Lau, Kong Wei Lye, Viet Bang Nguyen	A Combinatorial Auction Framework for Solving Decentralized Scheduling Problems (Extended Abstract)	Yes	[380]	2008	CPAIOR 2008	5	0	4	506	864
MouraSCL08 MouraSCL08	Arnaldo Vieira Moura, Cid C. de Souza, André A. Ciré, Tony Minoru Tamura Lopes	Planning and Scheduling the Operation of a Very Large Oil Pipeline Network	Yes	[452]	2008	CP 2008	16	11	10	539	865
MouraSCL08a MouraSCL08a	Arnaldo Vieira Moura, Cid C. de Souza, André A. Ciré, Tony Minoru Tamura Lopes	Heuristics and Constraint Programming Hybridizations for a Real Pipeline Planning and Scheduling Problem	Yes	[451]	2008	CSE 2008	8	5	14	540	866
PoderB08 PoderB08	E. Poder, N. Beldiceanu	Filtering for a Continuous Multi-Resources cumulative Constraint with Resource Consumption and Production	Yes	[502]	2008	ICAPS 2008	8	0	0	558	867
SchausD08 SchausD08	P. Schaus, Y. Deville	A Global Constraint for Bin-Packing with Precedences: Application to the Assembly Line Balancing Problem	Yes	[532]	2008	AAAI 2008	6	0	0	571	868
WatsonB08 WatsonB08	J. Watson, J. Christopher Beck	A Hybrid Constraint Programming / Local Search Approach to the Job-Shop Scheduling Problem	Yes	[634]	2008	CPAIOR 2008	15	14	17	624	869
AkkerDH07 AkkerDH07	J. M. van den Akker, G. Diepen, J. A. Hoogeveen	A Column Generation Based Destructive Lower Bound for Resource Constrained Project Scheduling Problems	Yes	[608]	2007	CPAIOR 2007	15	2	8	330	870
BeldiceanuP07 BeldiceanuP07	N. Beldiceanu, E. Poder	A Continuous Multi-resources <i>cumulative</i> Constraint with Positive-Negative Resource Consumption-Production	Yes	[82]	2007	CPAIOR 2007	15	4	7	365	871
DavenportKRSH07 DavenportKRSH07	Andrew J. Davenport, J. Kalagnanam, C. Reddy, S. Siegel, J. Hou	An Application of Constraint Programming to Generating Detailed Operations Schedules for Steel Manufacturing	Yes	[166]	2007	CP 2007	13	1	2	408	872
GarganiR07 GarganiR07	A. Gargani, P. Refalo	An Efficient Model and Strategy for the Steel Mill Slab Design Problem	Yes	[228]	2007	CP 2007	13	17	5	431	873
HoeveGSL07 HoeveGSL07	Willem-Jan van Hoeve, Carla P. Gomes, B. Selman, M. Lombardi	Optimal Multi-Agent Scheduling with Constraint Programming	Yes	[611]	2007	AAAI 2007	6	0	0	470	874
KeriK07 KeriK07	A. Kéri, T. Kis	Computing Tight Time Windows for RCPSPWET with the Primal-Dual Method	Yes	[344]	2007	CPAIOR 2007	14	1	13	486	875
KovacsB07 KovacsB07	A. Kovács, J. Christopher Beck	A Global Constraint for Total Weighted Completion Time	Yes	[356]	2007	CPAIOR 2007	15	2	12	493	876
KrogtLPHJ07 KrogtLPHJ07	Roman van der Krogt, J. Little, K. Pulliam, S. Hanhilaammi, Y. Jin	Scheduling for Cellular Manufacturing	Yes	[610]	2007	CP 2007	13	2	3	499	877
Limtanyakul07 Limtanyakul07	K. Limtanyakul	Scheduling of Tests on Vehicle Prototypes Using Constraint and Integer Programming	Yes	[394]	2007	GOR 2007	6	2	3	513	878
MonetteDD07 MonetteDD07	J. Monette, Y. Deville, P. Dupont	A Position-Based Propagator for the Open-Shop Problem	Yes	[446]	2007	CPAIOR 2007	14	0	12	536	879
RossiTHP07 RossiTHP07	R. Rossi, A. Tarim, B. Hnich, Steven D. Prestwich	Replenishment Planning for Stochastic Inventory Systems with Shortage Cost	Yes	[526]	2007	CPAIOR 2007	15	6	10	569	880
Beck06 Beck06	J. Christopher Beck	An Empirical Study of Multi-Point Constructive Search for Constraint-Based Scheduling	Yes	[63]	2006	ICAPS 2006	10	0	0	357	881

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BeniniBGM06 BeniniBGM06	L. Benini, D. Bertozzi, A. Guerri, M. Milano	Allocation, Scheduling and Voltage Scaling on Energy Aware MPSoCs	Yes	[88]	2006	CPAIOR 2006	15	18	10	368	882
GomesHS06 GomesHS06	Carla P. Gomes, Willem-Jan van Hoeve, B. Selman	Constraint Programming for Distributed Planning and Scheduling	Yes	[256]	2006	AAAI 2006	2	0	0	448	883
KhemmoudjPB06 KhemmoudjPB06	Mohand Ou Idir Khemmoudj, M. Porcheron, H. Bennaour	When Constraint Programming and Local Search Solve the Scheduling Problem of Electricité de France Nuclear Power Plant Outages	Yes	[346]	2006	CP 2006	13	8	8	487	884
KovacsV06 KovacsV06	A. Kovács, J. Váncza	Progressive Solutions: A Simple but Efficient Dominance Rule for Practical RCPSP	Yes	[362]	2006	CPAIOR 2006	13	2	7	497	885
LiuJ06 LiuJ06	Y. Liu, Y. Jiang	LP-TPOP: Integrating Planning and Scheduling Through Constraint Programming	Yes	[399]	2006	PRICAI 2006	5	0	0	516	886
QuSN06 QuSN06	Y. Qu, J. Soininen, J. Nurmi	Using Constraint Programming to Achieve Optimal Prefetch Scheduling for Dependent Tasks on Run-Time Reconfigurable Devices	Yes	[515]	2006	SoC 2006	4	2	5	564	887
Wallace06 Wallace06	M. Wallace	Hybrid Algorithms in Constraint Programming	Yes	[628]	2006	CSCLP 2006	32	1	35	621	888
AbrilSB05 AbrilSB05	M. Abril, Miguel A. Salido, F. Barber	Distributed Constraints for Large-Scale Scheduling Problems	Yes	[4]	2005	CP 2005	1	0	0	328	889
ArtiouchineB05 ArtiouchineB05	K. Artiouchine, P. Baptiste	Inter-distance Constraint: An Extension of the All-Different Constraint for Scheduling Equal Length Jobs	Yes	[34]	2005	CP 2005	15	3	11	343	890
BeckW05 BeckW05	J. Christopher Beck, N. Wilson	Proactive Algorithms for Scheduling with Probabilistic Durations	Yes	[72]	2005	IJCAI 2005	6	0	0	361	891
CarchraeBF05 CarchraeBF05	T. Carchrae, J. Christopher Beck, Eugene C. Freuder	Methods to Learn Abstract Scheduling Models	Yes	[133]	2005	CP 2005	1	0	0	392	892
ChuX05 ChuX05	Y. Chu, Q. Xia	A Hybrid Algorithm for a Class of Resource Constrained Scheduling Problems	Yes	[149]	2005	CPAIOR 2005	15	13	13	399	893
DilkinaDH05 DilkinaDH05	B. Dilkina, L. Duan, William S. Havens	Extending Systematic Local Search for Job Shop Scheduling Problems	Yes	[183]	2005	CP 2005	5	2	7	414	894
FortinZDF05 FortinZDF05	J. Fortin, P. Zielinski, D. Dubois, H. Fargier	Interval Analysis in Scheduling	Yes	[219]	2005	CP 2005	15	13	11	425	895
FrankK05 FrankK05	J. Frank, E. Kürklü	Mixed Discrete and Continuous Algorithms for Scheduling Airborne Astronomy Observations	Yes	[221]	2005	CPAIOR 2005	18	4	4	426	896
Geske05 Geske05	U. Geske	Railway Scheduling with Declarative Constraint Programming	Yes	[243]	2005	INAP 2005	18	2	3	441	897
GodardLN05 GodardLN05	D. Godard, P. Laborie, W. Nuijten	Randomized Large Neighborhood Search for Cumulative Scheduling	Yes	[247]	2005	ICAPS 2005	9	0	0	444	898
HebrardTW05 HebrardTW05	E. Hebrard, P. Tyler, T. Walsh	Computing Super-Schedules	Yes	[289]	2005	CP 2005	1	0	3	460	899
Hooker05a Hooker05a	John N. Hooker	Planning and Scheduling to Minimize Tardiness	Yes	[309]	2005	CP 2005	14	30	10	472	900
KovacsEKV05 KovacsEKV05	A. Kovács, P. Egri, T. Kis, J. Váncza	Proteuv-II: An Integrated Production Planning and Scheduling System	Yes	[359]	2005	CP 2005	1	2	3	494	901
MoffittPP05 MoffittPP05	Michael D. Moffitt, B. Peintner, Martha E. Pollack	Augmenting Disjunctive Temporal Problems with Finite-Domain Constraints	Yes	[444]	2005	AAAI 2005	6	0	0	535	902
QuirogaZH05 QuirogaZH05	O. Quiroga, L. Zeballos, Gabriela P. Henning	A Constraint Programming Approach to Tool Allocation and Resource Scheduling in FMS	Yes	[516]	2005	ICRA 2005	6	2	7	565	903
SchuttWS05 SchuttWS05	A. Schutt, A. Wolf, G. Schrader	Not-First and Not-Last Detection for Cumulative Scheduling in $O(n^3 \log n)$	Yes	[547]	2005	INAP 2005	15	6	4	578	904
Vilim05 Vilim05	P. Vilím	Computing Explanations for the Unary Resource Constraint	Yes	[617]	2005	CPAIOR 2005	14	5	8	615	905
Wolf05 Wolf05	A. Wolf	Better Propagation for Non-preemptive Single-Resource Constraint Problems	Yes	[639]	2005	CSCLP 2005	15	4	8	628	906
WolfS05 WolfS05	A. Wolf, G. Schrader	$O(n \log n)$ Overload Checking for the Cumulative Constraint and Its Application	Yes	[641]	2005	INAP 2005	14	6	6	631	907

Table 2: Works from bibtex (Total 326)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
WuBB05 WuBB05	Christine Wei Wu, Kenneth N. Brown, J. Christopher Beck	Scheduling with Uncertain Start Dates	Yes	[644]	2005	CP 2005	1	0	0	633	908
ArtiguesBF04 ArtiguesBF04	C. Artigues, S. Belmokhtar, D. Feillet	A New Exact Solution Algorithm for the Job Shop Problem with Sequence-Dependent Setup Times	Yes	[30]	2004	CPAIOR 2004	13	16	9	341	909
BeckW04 BeckW04	J. Christopher Beck, N. Wilson	Job Shop Scheduling with Probabilistic Durations	Yes	[71]	2004	ECAI 2004	5	0	0	360	910
HentenryckM04 HentenryckM04	Pascal Van Hentenryck, L. Michel	Scheduling Abstractions for Local Search	Yes	[300]	2004	CPAIOR 2004	16	12	14	465	911
Hooker04 Hooker04	John N. Hooker	A Hybrid Method for Planning and Scheduling	Yes	[307]	2004	CP 2004	12	39	9	471	912
KovacsV04 KovacsV04	A. Kovács, J. Váncza	Completable Partial Solutions in Constraint Programming and Constraint-Based Scheduling	Yes	[361]	2004	CP 2004	15	3	12	496	913
LimRX04 LimRX04	A. Lim, B. Rodrigues, Z. Xu	Solving the Crane Scheduling Problem Using Intelligent Search Schemes	Yes	[391]	2004	CP 2004	5	5	6	512	914
MaraveliasG04 MaraveliasG04	Christos T. Maravelias, Ignacio E. Grossmann	Using MILP and CP for the Scheduling of Batch Chemical Processes	Yes	[428]	2004	CPAIOR 2004	20	15	15	531	915
Sadykov04 Sadykov04	R. Sadykov	A Hybrid Branch-And-Cut Algorithm for the One-Machine Scheduling Problem	Yes	[529]	2004	CPAIOR 2004	7	11	7	570	916
Vilim04 Vilim04	P. Vilím	O(n log n) Filtering Algorithms for Unary Resource Constraint	Yes	[616]	2004	CPAIOR 2004	13	22	5	614	917
VilimBC04 VilimBC04	P. Vilím, R. Barták, O. Cepek	Unary Resource Constraint with Optional Activities	Yes	[621]	2004	CP 2004	15	13	4	619	918
VillaverdeP04 VillaverdeP04	K. Villaverde, E. Pontelli	An Investigation of Scheduling in Distributed Constraint Logic Programming	No	[624]	2004	ISCA 2004	6	0	0	No	919
WolinskiKG04 WolinskiKG04	C. Wolinski, K. Kuchcinski, Maya B. Gokhale	A Constraints Programming Approach to Communication Scheduling on SoPC Architectures	Yes	[643]	2004	DSD 2004	8	0	9	632	920
BeckPS03 BeckPS03	J. Christopher Beck, P. Prosser, E. Selensky	Vehicle Routing and Job Shop Scheduling: What's the Difference?	Yes	[69]	2003	ICAPS 2003	10	0	0	359	921
DannaP03 DannaP03	E. Danna, L. Perron	Structured vs. Unstructured Large Neighborhood Search: A Case Study on Job-Shop Scheduling Problems with Earliness and Tardiness Costs	Yes	[163]	2003	CP 2003	5	21	3	406	922
Kumar03 Kumar03	T. K. Satish Kumar	Incremental Computation of Resource-Envelopes in Producer-Consumer Models	Yes	[369]	2003	CP 2003	15	4	2	501	923
OddiPCC03 OddiPCC03	A. Oddi, N. Policella, A. Cesta, G. Cortellessa	Generating High Quality Schedules for a Spacecraft Memory Downlink Problem	Yes	[484]	2003	CP 2003	15	8	6	549	924
ValleMGT03 ValleMGT03	Carmelo Del Valle, Antonio A. Márquez, Rafael M. Gasca, M. Toro	On Selecting and Scheduling Assembly Plans Using Constraint Programming	Yes	[607]	2003	KES 2003	8	7	7	609	925
Vilim03 Vilim03	P. Vilím	Computing Explanations for Global Scheduling Constraints	Yes	[615]	2003	CP 2003	1	1	1	613	926
Wolf03 Wolf03	A. Wolf	Pruning while Sweeping over Task Intervals	Yes	[638]	2003	CP 2003	15	11	7	627	927
Bartak02 Bartak02	R. Barták	Visopt ShopFloor: On the Edge of Planning and Scheduling	Yes	[54]	2002	CP 2002	16	6	4	352	928
Bartak02a Bartak02a	R. Barták	Visopt ShopFloor: Going Beyond Traditional Scheduling	Yes	[53]	2002	ERCIM/CologNet 2002	15	1	9	353	929
BeldiceanuC02 BeldiceanuC02	N. Beldiceanu, M. Carlsson	A New Multi-resource cumulatives Constraint with Negative Heights	Yes	[79]	2002	CP 2002	17	33	9	363	930
ElkhyariGJ02 ElkhyariGJ02	A. Elkhyari, C. Guéret, N. Jussien	Conflict-Based Repair Techniques for Solving Dynamic Scheduling Problems	Yes	[198]	2002	CP 2002	6	1	6	419	931
ElkhyariGJ02a ElkhyariGJ02a	A. Elkhyari, C. Guéret, N. Jussien	Solving Dynamic Resource Constraint Project Scheduling Problems Using New Constraint Programming Tools	Yes	[199]	2002	PATAT 2002	24	9	20	420	932
HookerY02 HookerY02	John N. Hooker, H. Yan	A Relaxation of the Cumulative Constraint	Yes	[317]	2002	CP 2002	5	8	7	474	933
KamarainenS02 KamarainenS02	O. Kamarainen, Hani El Sakkout	Local Probing Applied to Scheduling	Yes	[334]	2002	CP 2002	17	9	13	481	934
Muscettola02 Muscettola02	N. Muscettola	Computing the Envelope for Stepwise-Constant Resource Allocations	Yes	[456]	2002	CP 2002	16	14	4	543	935

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Vilim02 Vilim02	P. Vilím	Batch Processing with Sequence Dependent Setup Times	Yes	[614]	2002	CP 2002	1	6	1	612	936
ZhuS02 ZhuS02	Kenny Qili Zhu, Andrew E. Santosa	A Meeting Scheduling System Based on Open Constraint Programming	Yes	[667]	2002	CAiSE 2002	5	0	5	642	937
Thorsteinsson01 Thorsteinsson01	Erlendur S. Thorsteinsson	Branch-and-Check: A Hybrid Framework Integrating Mixed Integer Programming and Constraint Logic Programming	Yes	[589]	2001	CP 2001	15	67	12	600	938
VanczaM01 VanczaM01	J. Váncza, A. Márkus	A Constraint Engine for Manufacturing Process Planning	Yes	[612]	2001	CP 2001	15	2	19	610	939
VerfaillieL01 VerfaillieL01	G. Verfaillie, M. Lemaître	Selecting and Scheduling Observations for Agile Satellites: Some Lessons from the Constraint Reasoning Community Point of View	Yes	[613]	2001	CP 2001	15	11	6	611	940
AngelsmarkJ00 AngelsmarkJ00	O. Angelsmark, P. Jonsson	Some Observations on Durations, Scheduling and Allen's Algebra	Yes	[18]	2000	CP 2000	5	1	9	333	941
FocacciLN00 FocacciLN00	F. Focacci, P. Laborie, W. Nuijten	Solving Scheduling Problems with Setup Times and Alternative Resources	Yes	[216]	2000	AIPS 2000	10	0	0	423	942
DorndorfPH99 DorndorfPH99	U. Dorndorf, E. Pesch, Toàn Phan Huy	Recent Developments in Scheduling	No	[189]	1999	Operations Research Proceedings 1999	null	0	34	No	943
KorbaaYG99 KorbaaYG99	O. Korbaa, P. Yim, J. Gentina	Solving transient scheduling problem for cyclic production using timed Petri nets and constraint programming	Yes	[353]	1999	ECC 1999	8	1	0	491	944
Simonis99 Simonis99	H. Simonis	Building Industrial Applications with Constraint Programming	Yes	[560]	1999	CCL'99 1999	39	5	18	584	945
CestaOS98 CestaOS98	A. Cesta, A. Oddi, Stephen F. Smith	Scheduling Multi-capacitated Resources Under Complex Temporal Constraints	Yes	[145]	1998	CP 1998	1	5	0	396	946
FrostD98 FrostD98	D. Frost, R. Dechter	Optimizing with Constraints: A Case Study in Scheduling Maintenance of Electric Power Units	Yes	[226]	1998	CP 1998	1	10	2	429	947
GruianK98 GruianK98	F. Gruian, K. Kuchcinski	Operation Binding and Scheduling for Low Power Using Constraint Logic Programming	Yes	[266]	1998	EUROMICRO 1998	8	5	10	454	948
PembertonG98 PembertonG98	Joseph C. Pemberton, Flavius Galiber III	A constraint-based approach to satellite scheduling	Yes	[496]	1998	DIMACS 1998	14	26	0	555	949
RodosekW98 RodosekW98	R. Rodosek, M. Wallace	A Generic Model and Hybrid Algorithm for Hoist Scheduling Problems	Yes	[520]	1998	CP 1998	15	19	10	568	950
BaptisteP97 BaptisteP97	P. Baptiste, Claude Le Pape	Constraint Propagation and Decomposition Techniques for Highly Disjunctive and Highly Cumulative Project Scheduling Problems	Yes	[48]	1997	CP 1997	15	8	10	350	951
BeckDF97 BeckDF97	J. Christopher Beck, Andrew J. Davenport, Mark S. Fox	Five Pitfalls of Empirical Scheduling Research	Yes	[65]	1997	CP 1997	15	3	12	358	952
BoucherBVBL97 BoucherBVBL97	E. Boucher, A. Bachelu, C. Varnier, P. Baptiste, B. Legeard	Multi-criteria Comparison Between Algorithmic, Constraint Logic and Specific Constraint Programming on a Real Scheduling Problem	No	[117]	1997	PACT 1997	18	0	0	No	953
Caseau97 Caseau97	Y. Caseau	Using Constraint Propagation for Complex Scheduling Problems: Managing Size, Complex Resources and Travel	Yes	[138]	1997	CP 1997	4	0	0	393	954
PapeB97 PapeB97	Claude Le Pape, P. Baptiste	A Constraint Programming Library for Preemptive and Non-Preemptive Scheduling	No	[493]	1997	PACT 1997	20	0	0	No	955
BrusoniCLMMT96 BrusoniCLMMT96	V. Brusoni, L. Console, E. Lamma, P. Mello, M. Milano, P. Terenziani	Resource-Based vs. Task-Based Approaches for Scheduling Problems	Yes	[124]	1996	ISMIS 1996	10	1	9	388	956
Colombani96 Colombani96	Y. Colombani	Constraint Programming: an Efficient and Practical Approach to Solving the Job-Shop Problem	Yes	[158]	1996	CP 1996	15	4	5	405	957
Zhou96 Zhou96	J. Zhou	A Constraint Program for Solving the Job-Shop Problem	Yes	[664]	1996	CP 1996	15	10	7	640	958

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Goltz95 Goltz95	H. Goltz	Reducing Domains for Search in CLP(FD) and Its Application to Job-Shop Scheduling	Yes	[254]	1995	CP 1995	14	7	7	447	959
Puget95 Puget95	J. Puget	Applications of Constraint Programming	Yes	[512]	1995	CP 1995	4	6	2	563	960
Simonis95 Simonis95	H. Simonis	The CHIP System and Its Applications	Yes	[559]	1995	CP 1995	4	7	3	582	961
Simonis95a Simonis95a	H. Simonis	Application Development with the CHIP System	Yes	[558]	1995	CONTESSA 1995	21	1	12	583	962
SimonisC95 SimonisC95	H. Simonis, T. Cornelissens	Modelling Producer/Consumer Constraints	Yes	[563]	1995	CP 1995	14	17	8	585	963
Touraivane95 Touraivane95	Touraivane	Constraint Programming and Industrial Applications	Yes	[595]	1995	CP 1995	3	2	1	603	964
JourdanFRD94 JourdanFRD94	J. Jourdan, F. Fages, D. Rozzonelli, A. Demeure	Data Alignment and Task Scheduling On Parallel Machines Using Concurrent Constraint Model-based Programming	No	[328]	1994	ILPS 1994	1	0	0	No	965
NuijtenA94 NuijtenA94	W. P. M. Nuijten, Emile H. L. Aarts	Constraint Satisfaction for Multiple Capacitated Job Shop Scheduling	Yes	[480]	1994	ECAI 1994	5	0	0	548	966
Wallace94 Wallace94	M. Wallace	Applying Constraints for Scheduling	No	[626]	1994	Constraint Programming 1994	19	0	0	No	967
BaptisteLV92 BaptisteLV92	P. Baptiste, B. Legeard, C. Varnier	Hoist scheduling problem: an approach based on constraint logic programming	Yes	[51]	1992	ICRA 1992	6	13	6	349	968
ErtlK91 ErtlK91	M. Anton Ertl, A. Krall	Optimal Instruction Scheduling using Constraint Logic Programming	Yes	[201]	1991	PLILP 1991	12	14	14	421	969
FoxAS82 FoxAS82	Mark S. Fox, Bradley P. Allen, G. Strohm	Job-Shop Scheduling: An Investigation in Constraint-Directed Reasoning	No	[220]	1982	AAAI 1982	4	0	0	No	970

2.2 Extracted Concepts

Table 3: Automatically Extracted PAPER Properties (Requires Local Copy)

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
AalianPG23 [1]	16	scheduling, preempt, transportation, machine, make-span, activity, flow-shop, order, resource		cycle, noOverlap, endBeforeStart, alwaysIn, cumulative		CPO, Cplex	steel cable	mining industry	real-world		2	646
AbrilSB05 [4]	1	distributed, multi-agent, scheduling, order					railway				245	889
Acuna-AgostMFG09 [5]	2	re-scheduling, order, scheduling, transportation					railway		Roadef		203	847
AkkerDH07 [608]	15	due-date, cmax, machine, job, lateness, sequence dependent setup, preempt, resource, no-wait, scheduling, precedence, order, make-span, completion-time, release-date	parallel machine, RCPSP, single machine	cumulative		Cplex					226	870
AlesioNBG14 [182]	18	preempt, scheduling, completion-time, resource, task, job-shop, distributed, make-span, open-shop, order, job, activity		alldifferent		OPL, Cplex	automotive		benchmark		138	782
AmadiniGM16 [17]	7	make-span, lazy clause generation, scheduling, resource, task, distributed, precedence	RCPSP	cumulative		MiniZinc, Choco Solver, Gurobi, Gecode, OR-Tools			benchmark, real-life, github		101	745
AngelsmarkJ00 [18]	5	resource, job, order, scheduling, task, job-shop									297	941
AntunesABD18 [19]	8	earliness, scheduling, machine, order, lateness, activity, due-date, re-scheduling, task, Benders Decomposition		bin-packing, BinPacking constraint		Cplex		electricity industry	real-world, industry partner, industrial partner		71	715
AntuoriHHEN20 [21]	16	due-date, task, job-shop, precedence, release-date, resource, job, order, completion-time, tardiness, scheduling, machine		alldifferent, circuit, Element constraint, cycle, Channeling constraint		Choco Solver	torpedo		random instance, generated instance, gitlab, benchmark, industrial instance		45	689
AntuoriHHEN21 [22]	16	transportation, due-date, task, job-shop, precedence, release-date, resource, job, order, tardiness, scheduling, machine		cycle	C++, Java	Choco Solver, Gecode	automotive, car manufacturing, drone	automotive industry	gitlab, supplementary material	GRASP	33	677
ArbaouiY18 [24]	10	order, sequence dependent setup, resource, job, scheduling, setup-time, machine, make-span, no-wait, completion-time, cmax	single machine, parallel machine	Pulse constraint, alternative constraint, noOverlap, cumulative	C++	Cplex			benchmark		72	716

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
ArmstrongGOS21 [26]	18	machine, flow-shop, job-shop, job, order, sequence dependent setup, cmax, transportation, scheduling, make-span, completion-time, preempt, resource, setup-time, precedence, task	HFF, HFFTT, HFS	cycle, alternative constraint, table constraint, circuit, diffn, bin-packing, cumulative	Java, Prolog	Gecode, CHIP, MiniZinc, CPO, Chuffed, SICStus, Cplex	robot	packaging industry	instance generator, industry partner, zenodo, supplementary material, real-world, industrial partner, benchmark	energetic reasoning	34	678
ArmstrongGOS22 [27]	13	machine, flow-shop, job, re-scheduling, order, cmax, no-wait, transportation, scheduling, make-span, completion-time, resource, task	HFF, parallel machine, HFFTT, HFS	noOverlap, cumulative	Prolog	OPL, SICStus			real-world, benchmark	IGT, GRASP, NEH	17	661
AronssonBK09 [29]	13	job-shop, transportation, order, job, task		cumulative	Prolog	CHIP, Cplex	railway		real-world, real-life	sweep	204	848
ArtiguesBF04 [30]	13	batch process, cmax, resource, completion-time, scheduling, machine, job, make-span, release-date, precedence, sequence dependent setup, job-shop, setup-time, preempt, order		Disjunctive constraint, disjunctive	C++	Ilog Solver, Ilog Scheduler			benchmark	edge-finding	265	909
ArtiguesHQT21 [32]	8	order, resource, preempt, scheduling, release-date, machine, job	RCPSP	cumulative		Cplex					35	679
ArtiouchineB05 [34]	15	release-date, completion-time, job, resource, activity, open-shop, machine, job-shop, re-scheduling, scheduling, order, make-span, preempt, precedence	parallel machine, single machine	Disjunctive constraint, cumulative, disjunctive		Ilog Scheduler	aircraft		generated instance, random instance	not-last, edge-finding, not-first	246	890
Astrand0F21 [36]	18	open-shop, task, precedence, make-span, order, job, activity, scheduling, resource, machine, job-shop		cycle, disjunctive, Disjunctive constraint		Gecode	farming, forestry, agriculture, drone, robot, satellite	potash industry, mining industry, mineral industry	benchmark, real-life, real-world, generated instance		36	680
AstrandJZ18 [37]	9	task, make-span, order, activity, scheduling, resource, machine	single machine	disjunctive, cumulative, cycle		Gecode	hoist, robot	potash industry		time-tabling	73	717
BadicaBIL19 [40]	11	completion-time, resource, distributed, order, activity, machine, multi-agent, make-span, scheduling		cycle, Arithmetic constraint		ECLiPSe, Gecode			github		56	700
BajestaniB11 [41]	8	re-scheduling, Benders Decomposition, scheduling, machine, transportation, order, tardiness, make-span, resource, inventory, due-date, job	JSSP, single machine	cycle, Cardinality constraint, cumulative, circuit		Ilog Solver, Cplex	railway, aircraft				179	823
Baptiste09 [45]	1	scheduling									205	849
BaptisteLV92 [51]	6										324	968
BaptisteP97 [48]	15	resource, preempt, job-shop, scheduling, re-scheduling, due-date, task, precedence, release-date, flow-shop, make-span, order, job, activity	RCPSP	Disjunctive constraint, disjunctive, cumulative	C++	Claire, CHIP			benchmark	edge-finding, edge-finder	307	951

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
BarlattCG08 [52]	5	scheduling, resource, setup-time, task, job-shop, transportation, job, machine, flow-shop					automotive, pipeline		real-world		215	859
Bartak02 [54]	16	make-span, machine, job, activity, resource, lateness, job-shop, precedence, earliness, scheduling, continuous-process, task, order		cumulative, disjunctive, Disjunctive constraint	Prolog	SICStus	dairies		real-life	edge-finding, time-tabling	284	928
Bartak02a [53]	15	activity, earliness, scheduling, make-span, task, machine, job, re-scheduling, job-shop, resource, precedence, order, tardiness		Disjunctive constraint, cumulative, disjunctive		Ilog Scheduler	dairies		benchmark, real-life	time-tabling, edge-finding	285	929
BartakV15 [59]	12	scheduling, make-span, machine, job, lateness, re-scheduling, job-shop, resource, precedence, order, activity, setup-time							real-world, real-life	sweep	120	764
BartoliniBBLM14 [60]	16	tardiness, make-span, scheduling, resource, task, job, activity, machine		alternative constraint, cumulative			super-computer				139	783
BarzegaranZP20 [61]	9	resource, re-scheduling, distributed, machine, scheduling, order, task			Java	OR-Tools	automotive, robot				46	690
Beck06 [63]	10	due-date, order, scheduling, machine, job-shop, tardiness, flow-shop, make-span, resource, job				Ilog Scheduler			benchmark		237	881
BeckDF97 [65]	15	activity, release-date, make-span, resource, inventory, job-shop, precedence, due-date, re-scheduling, order, scheduling, machine, job, task	single machine	cycle, cumulative			robot		benchmark, real-world	edge-finding	308	952
BeckPS03 [69]	10	job, task, activity, release-date, make-span, transportation, earliness, flow-time, resource, job-shop, precedence, due-date, re-scheduling, order, tardiness, scheduling, completion-time, machine, setup-time	RCPSP			Ilog Scheduler	robot		benchmark, real-world		277	921
BeckW04 [71]	5	job-shop, machine, activity, distributed, flow-shop, resource, job, order, make-span, scheduling	single machine			Ilog Scheduler				edge-finding, time-tabling	266	910
BeckW05 [72]	6	job-shop, activity, flow-shop, resource, job, order, make-span, scheduling		Balance constraint		Ilog Scheduler				edge-finder	247	891
BehrensLM19 [76]	7	order, resource, machine, scheduling, setup-time, task, distributed, multi-agent, make-span			Python	OR-Tools, MiniZinc	robot		github, real-world		57	701
BeldiceanuC02 [79]	17	task, resource, activity, order, producer/consumer, scheduling, machine	single machine	Cumulatives constraint, cumulative	Prolog	CHIP, SICStus	crew-scheduling		real-life, random instance, benchmark	sweep	286	930

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
BeldiceanuCP08 [81]	15	scheduling, order, resource, task		disjunctive, geost, cumulative	Prolog	CHIP, SIC- Stus, OPL	rectangle- packing, perfect- square		benchmark	edge- finding, sweep	216	860
BeldiceanuP07 [82]	15	preempt, task, resource, order, scheduling, release-date, due-date		disjunctive, cumulative						sweep	227	871
BenderWS21 [84]	16	activity, order, resource, scheduling, preempt, task, machine, make-span, job, distributed, setup-time	RCPSP	noOverlap	Python		agriculture				37	681
BenediktSMVH18 [87]	10	job-shop, scheduling, order, preempt, resource, job, machine	single machine, parallel machine	noOverlap		Gurobi	energy-price		github, random instance, generated instance		74	718
BeniniBGM06 [88]	15	Benders Decomposition, task, distributed, precedence, make-span, order, activity, tardiness, scheduling, resource, setup-time		cycle, cumulative		ECLiPSe, Cplex, Ilog Solver	automotive, pipeline		real-life		238	882
BeniniLMR08 [89]	15	resource, Benders Decomposition, task, distributed, precedence, make-span, order, activity, machine, preempt, release-date, tardiness, scheduling	SCC	circuit		Ilog Scheduler, Cplex	medical, pipeline		benchmark		217	861
BertholdHLMS10 [92]	5	scheduling, order, preempt, precedence, completion-time, job, resource	psplib, RCPSP	disjunctive, cumulative		Cplex, SCIP, Z3					195	839
BessiereHMQW14 [93]	16	scheduling, order, resource, setup-time, task, machine, job		BufferedResource, cycle, Cardinality constraint, alldifferent, Element constraint		Choco Solver	satellite	textile industry	benchmark, real-life		140	784
BillautHL12 [95]	15	tardiness, job-shop, setup-time, due-date, open-shop, precedence, release-date, flow-shop, make-span, order, job, scheduling, completion-time, resource, machine, cmax	single machine	cycle		Cplex, Mistral			random instance		166	810
Bit-Monnot23 [96]	8	distributed, job, open-shop, task, lazy clause generation, precedence, scheduling, machine, order, make-span, job-shop, resource, activity	OSP, Open Shop Scheduling Problem	Disjunctive constraint, cycle, cumulative, disjunctive		OR-Tools, CPO, MiniZinc, Mistral			benchmark, real-world, github		3	647
BofillCSV17 [103]	9	precedence, make-span, order, activity, machine, preempt, cmax, lazy clause generation, scheduling, resource	RCPSP, psplib	cumulative		Z3, SCIP			benchmark	energetic reasoning	88	732
BofillEGPSV14 [104]	16	machine, order, scheduling, lazy clause generation, task		Channeling constraint		Cplex, Gecode, MiniZinc, SCIP			industrial instance	in- time-tabling	141	785

Table 3: Automatically Extracted PAPER Properties (Requires Local Copy)

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
BofillGSV15 [105]	9	machine, scheduling, order		Channeling constraint, Cardinality constraint		Cplex			industrial instance	time-tabling	121	765
BogaerdtW19 [609]	16	scheduling, completion-time, setup-time, job-shop, precedence, order, job, machine, tardiness	single machine, parallel machine	noOverlap	C	OPL, Cplex	railway		benchmark		58	702
BonfiettiLBM11 [107]	15	scheduling, order, make-span, precedence, task, job, resource, activity, machine, job-shop	RCPSP	cumulative, cycle		Ilog Solver	hoist, robot		benchmark, generated instance, industrial instance		180	824
BonfiettiLBM12 [108]	16	scheduling, order, make-span, precedence, job, resource, activity, distributed, machine, job-shop	RCPSP	cumulative, cycle		Ilog Solver	hoist, robot		benchmark	time-tabling	167	811
BonfiettiLM13 [110]	5	scheduling, make-span, job-shop, precedence, resource, activity, job, order	RCPSP	cycle, cumulative		Cplex					153	797
BonfiettiLM14 [111]	16	scheduling, machine, open-shop, distributed, make-span, task, job-shop, precedence, resource, activity, job, order	RCPSP, psplib	cumulative					benchmark, real-world		142	786
BonfiettiM12 [112]	3	job, task, scheduling, machine, precedence, job-shop, resource, activity	RCPSP	cumulative			hoist		industrial instance		168	812
BonfiettiZLM16 [113]	17	resource, activity, scheduling, order, make-span, precedence	RCPSP	cumulative, cycle, disjunctive		OR-Tools	automotive	automotive industry, control system industry	generated instance, github, industrial instance, benchmark, real-world	sweep, edge-finder	102	746
BonninMNE24 [114]	12	open-shop, order, job, activity, flow-time, machine, preempt, precedence, release-date, flow-shop, make-span, scheduling, completion-time, resource, task, job-shop	single machine	noOverlap, disjunctive, cumulative, Disjunctive constraint, Completion constraint, Flowtime constraint	C++	Cplex	patient, COVID, vaccine		benchmark, real-life	edge-finding, sweep, time-tabling	1	645
BoothNB16 [115]	17	distributed, resource, machine, Benders Decomposition, precedence, order, activity, scheduling, task, re-scheduling		cumulative, noOverlap, disjunctive	C++	Cplex	robot, medical		real-world		103	747
BoudreaultSLQ22 [118]	16	activity, machine, transportation, distributed, lazy clause generation, order, make-span, scheduling, cmax, resource, preempt, precedence, task	RCPSP, psplib	disjunctive, Cumulatives constraint, Disjunctive constraint, cumulative		Chuffed, MiniZinc, OPL, OR-Tools	offshore	repair industry, ship repair industry	supplementary material, gitlab, benchmark, generated instance, real-life, industrial partner, github, real-world	edge-finding, not-first, not-last, energetic reasoning	18	662
BridiLBBM16 [122]	2	task, distributed, make-span, order, job, activity, scheduling, resource, machine									104	748

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
BrusoniCLMMT96 [124]	10	no-wait, due-date, scheduling, order, resource, activity, precedence, task, distributed, job-shop, job		disjunctive, Disjunctive constraint	Prolog		railway				312	956
BurtLPS15 [125]	17	task, job, job-shop, resource, machine, Benders Decomposition, precedence, order, tardiness, scheduling, make-span, completion-time	parallel machine, single machine	cumulative, cycle		Gurobi, Gecode, Cplex, MiniZinc			industry partner, real-world, benchmark		122	766
CappartS17 [130]	16	re-scheduling, resource, scheduling, task, machine, activity, job, precedence, job-shop, completion-time, order	TMS	cumulative, span constraint, noOverlap, alternative constraint		OPL	railway		bitbucket, real-life, random instance		89	733
CappartTSR18 [131]	17	resource, setup-time, producer/consumer, activity, Benders Decomposition, scheduling, transportation, order		cumulative, circuit, disjunctive, noOverlap		Cplex, CPO, MiniZinc, OPL	medical, patient		bitbucket, real-life, CSPlib		75	719
CarchraeBF05 [133]	1	scheduling, task, make-span, order									248	892
Caseau97 [138]	4	preempt, order, scheduling, task, make-span, job, resource, job-shop		cumulative			robot		benchmark	edge-finding	310	954
CatusseCBL16 [140]	7	release-date, order, resource, due-date, scheduling, machine, job, task	parallel machine, single machine	disjunctive	Julia	OPL					105	749
CauwelaertDMS16 [141]	16	batch process, order, make-span, scheduling, completion-time, setup-time, resource, preempt, precedence, task, job, job-shop, activity, machine, sequence dependent setup		cumulative, disjunctive	Java		container terminal		real-life, bitbucket, benchmark	not-last, edge-finding, not-first	106	750
CestaOS98 [145]	1	job, resource, scheduling					robot				302	946
ChapadosJR11 [146]	6	activity, task, scheduling, order		cycle, cumulative		OPL		retail industry		time-tabling	181	825
ChuGNSW13 [148]	7	distributed, resource, machine, job, scheduling, precedence, order, task		cumulative, alldifferent, Cardinality constraint, disjunctive		CHIP				not-first, not-last, edge-finding	154	798
ChuX05 [149]	15	scheduling, machine, release-date, order, completion-time, resource, job, due-date, Benders Decomposition	single machine	disjunctive, cumulative, Disjunctive constraint		ECLiPSe					249	893
CireCH13 [150]	7	tardiness, scheduling, Benders Decomposition, precedence, task, order, make-span, machine, job, resource		circuit, cumulative		SCIP, OPL, Cplex					155	799

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
ClercqPBJ11 [152]	16	order, activity, release-date, scheduling, completion-time, resource, due-date, distributed, precedence		cumulative, SoftCumulative, Cumulatives constraint, alldifferent, SoftCumulativeSum, Cardinality constraint	Java	Choco Solver, CHIP			benchmark	time-tabling, sweep, energetic reasoning, edge-finding	182	826
CobanH10 [153]	5	job, make-span, distributed, tardiness, Benders Decomposition, preempt, re-scheduling, order, scheduling		disjunctive, circuit		OPL, Cplex					196	840
CohenHB17 [155]	17	machine, order, activity, scheduling, task		noOverlap, alternative constraint		Cplex, OPL				time-tabling	90	734
ColT19 [157]	17	scheduling, machine, job-shop, earliness, order, precedence, make-span, resource, job	JSSP	noOverlap, disjunctive	Java	OR-Tools, MiniZinc, CPO			github, benchmark, real-world		59	703
Colombani96 [158]	15	job, scheduling, resource, preempt, due-date, job-shop, task, order, activity, machine, precedence, release-date		disjunctive		CHIP					313	957
DannaP03 [163]	5	job-shop, order, tardiness, scheduling, machine, job, activity, earliness, resource		disjunctive		Cplex, Ilog Solver, Ilog Scheduler			benchmark		278	922
Davenport10 [165]	5	order, resource, release-date, tardiness, scheduling, completion-time, earliness, due-date				Cplex	semiconductor				197	841
DavenportKRSH07 [166]	13	make to order, activity, machine, preempt, precedence, job-shop, sequence dependent setup, resource, inventory, order, scheduling, job, setup-time		disjunctive, bin-packing	C++	Cplex, CHIP		steel industry			228	872
DejemeppeCS15 [174]	16	make-span, task, precedence, setup-time, resource, preempt, activity, completion-time, tardiness, job-shop, sequence dependent setup, scheduling, release-date, machine, job, order	single machine	disjunctive, cumulative, cycle			container terminal		bitbucket, real-world, generated instance, benchmark	not-last, not-first, edge-finding	123	767
DejemeppeD14 [175]	9	make-span, precedence, job-shop, resource, activity, setup-time, job, scheduling, order		cumulative			medical, patient		bitbucket		143	787
DemirovicS18 [178]	18	scheduling, task, precedence, order, resource, activity		Disjunctive constraint, cumulative, disjunctive		MiniZinc, Gurobi			benchmark, real-world	time-tabling	76	720
DerrienP14 [180]	9	resource, scheduling, make-span, activity, order	psplib, CuSP	cumulative	Java	Choco Solver			random instance	sweep, edge-finding, energetic reasoning	144	788
DerrienPZ14 [181]	9	re-scheduling, order, job, activity, machine, precedence, make-span, scheduling, resource	RCPSP, CuSP	cumulative, Balance constraint, Cumulatives constraint		Choco Solver, CHIP			real-world, benchmark, random instance	sweep	145	789

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
DilkinaDH05 [183]	5	machine, precedence, make-span, job, scheduling, job-shop, order				OPL					250	894
DoomsH08 [187]	16	scheduling, completion-time, machine, job, activity, resource, job-shop, task, order	RCPSP					service industry			218	862
DoulabiRP14 [190]	9	due-date, task, order, activity, scheduling, resource		Cardinality constraint, bin-packing, Element constraint		Cplex	medical, patient, nurse, surgery, operating room				146	790
EdisO11 [192]	7	task, job, resource, make-span, scheduling, flow-time, tardiness, due-date, machine, completion-time, activity, lateness, earliness, Benders Decomposition, preempt	parallel machine	bin-packing, noOverlap, cumulative		OPL, Cplex					183	827
EfthymiouY23 [195]	16	setup-time, order, make-span, job-shop, job, re-scheduling, task, scheduling, machine	CHSP, JSSP	cumulative, disjunctive, cycle	Python	OPL, OR-Tools	pipeline, hoist, satellite, electroplating		generated instance, benchmark, random instance, real-life, industrial instance		4	648
ElkhyariGJ02 [198]	6	precedence, scheduling, machine, preempt, make-span, resource, activity, due-date, re-scheduling, task	RCPSP	cumulative, disjunctive, table constraint							287	931
ElkhyariGJ02a [199]	24	activity, re-scheduling, order, scheduling, open-shop, due-date, task, precedence, resource	RCPSP, psplib	cumulative, Disjunctive constraint, Arithmetic constraint, disjunctive cycle		OPL			benchmark, real-life	time-tabling	288	932
ErtlK91 [201]	12	setup-time, task, resource, scheduling, order, machine			Prolog		pipeline		real-world, benchmark		325	969
EvenSH15 [204]	18	transportation, machine, distributed, resource, preempt, order, scheduling, Benders Decomposition, completion-time, task		cumulative, disjunctive, Disjunctive constraint		OPL, Choco Solver	emergency service		real-life, real-world	real-sweep	124	768
FocacciLN00 [216]	10	machine, preempt, cmax, scheduling, resource, setup-time, due-date, task, job-shop, distributed, precedence, make-span, sequence dependent setup, open-shop, order, job, activity		Disjunctive constraint, disjunctive					real-world	edge-finding	298	942
FontaineMH16 [217]	11	order, job-shop, resource, scheduling, machine, job, task, completion-time, Benders Decomposition, make-span, precedence	parallel machine	disjunctive		MiniZinc, Gurobi, CHIP			benchmark		107	751

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
FortinZDF05 [219]	15	resource, task, order, activity, precedence, temporal constraint reasoning, make-span, scheduling	psplib								251	895
FrankK05 [221]	18	order, job, resource, precedence, scheduling, due-date, task		cycle			satellite, aircraft		benchmark		252	896
FrimodigS19 [223]	17	order, machine, job, scheduling, resource, Benders Decomposition, task, job-shop		cumulative, bin-packing, regular expression, Regular constraint	Python	Cplex, MiniZinc, Gecode	medical, patient, nurse, physician, radiation therapy, surgery		benchmark, real-world		60	704
FrohnerTR19 [225]	9	order, scheduling, distributed			Java, Python	MiniZinc, Gecode, Gurobi	nurse		benchmark, real-world		61	705
FrostD98 [226]	1	scheduling, order						power industry			303	947
GalleguillosKSB19 [227]	18	resource, order, job, activity, make-span, re-scheduling, machine, distributed, scheduling	JSSP	alternative constraint, cumulative bin-packing, Channeling constraint, Element constraint	Python	OR-Tools	datacenter, super-computer				62	706
GarganiR07 [228]	13	machine, inventory, order, resource		Cumulative constraint, disjunctive	C++	OPL	steel mill	steel industry	real-life, CSPlib		229	873
GayHLS15 [231]	9	resource, scheduling, precedence, task, order, make-span, activity	RCPSP, OSP, psplib	Cumulative constraint, cumulative, table constraint, disjunctive		Choco Solver, OR-Tools, Gecode			bitbucket, benchmark	time-tabling, edge-finding	125	769
GayHS15 [232]	9	resource, task, order, scheduling, precedence, preempt		Cumulative constraint, cumulative, table constraint, disjunctive		Choco Solver, OR-Tools, Gecode			bitbucket	time-tabling, sweep	126	770
GayHS15a [233]	16	task, order, machine, manpower, preempt, resource, scheduling	psplib, RCPSP	Cumulative constraint, cumulative, disjunctive	Java				benchmark, real-world, bitbucket	time-tabling, not-first, not-last, energetic reasoning, edge-finding, sweep	127	771
GaySS14 [234]	15	machine, completion-time, activity, setup-time, continuous-process, resource, job, order, make-span, scheduling, precedence, manpower, job-shop		cycle, cumulative, disjunctive			steel mill		real-life, CSPlib		148	792
GeibingerKKMMW21 [236]	10	scheduling, distributed		Cardinality constraint		MiniZinc, OR-Tools, Gurobi, Cplex, Gecode	nurse, physician, COVID, medical, patient	pharmaceutical industry	real-world		38	682

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
GeibingerMM19 [238]	16	precedence, release-date, resource, activity, re-scheduling, job, order, completion-time, scheduling, due-date, make-span, task	RCPSP	alternative constraint, cumulative, endBeforeStart, Pulse constraint, noOverlap	Java	Cplex, Gecode, MiniZinc, CPO	automotive		real-world, benchmark, real-life, generated instance, industrial partner	time-tabling	63	707
GeibingerMM21 [239]	9	precedence, release-date, resource, activity, job, order, completion-time, tardiness, scheduling, machine, lazy clause generation, due-date, task	RCPSP	disjunctive, cumulative		Chuffed, Cplex, CPO	nurse, operating room		github, real-world, benchmark, real-life, generated instance	time-tabling	39	683
GeitzGSSW22 [240]	18	setup-time, sequence dependent setup, task, lateness, precedence, batch process, make-span, order, job, scheduling, completion-time, resource, machine, preempt, producer/consumer, lazy clause generation, job-shop, transportation	single machine, RCPSP, JSSP	cumulative		OPL	robot		real-world, real-life, github	sweep, not-last	19	663
GelainPRVW17 [241]	16	order, resource, scheduling							real-life, CSplib, benchmark		91	735
Geske05 [243]	18	machine, re-scheduling, activity, distributed, task, job, order, resource, scheduling, lateness, job-shop		cumulative	Prolog	SICStus, CHIP	railway	railway industry	real-life		253	897
GilesH16 [245]	16	setup-time, activity, transportation, resource, inventory, task, order, scheduling		disjunctive, cumulative		Cplex	pipeline	chemical industry, processing industry, petro-chemical industry, chemical processing industry			108	752
GingrasQ16 [246]	7	resource, scheduling, task, make-span, completion-time, precedence, order	psplib, RCPSP, CuSP	disjunctive, cumulative		Choco Solver			benchmark	energetic reasoning, sweep, edge-finder, edge-finding	109	753
GodardLN05 [247]	9	job-shop, activity, completion-time, order, earliness, tardiness, resource, scheduling, machine, make-span, job, precedence	JSSP	cumulative, disjunctive, table constraint		Ilog Solver, Ilog Scheduler			benchmark		254	898
GodetLHS20 [249]	8	lazy clause generation, release-date, scheduling, task, machine, make-span, completion-time, setup-time, order, cmax, resource, job	single machine, parallel machine, PMSP	alldifferent, bin-packing, Disjunctive constraint, cumulative, disjunctive		CHIP, Chuffed, Choco Solver	satellite		real-life, benchmark, generated instance, github	not-last, time-tabling	47	691

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
GoldwaserS17 [252]	16	scheduling, machine, transportation, order, resource, due-date, lazy clause generation, Benders Decomposition		cumulative, disjunctive	Python	Gurobi, Gecode	torpedo	steel industry	github, generated instance, instance generator		92	736
Goltz95 [254]	14	task, job, order, resource, scheduling, precedence, job-shop, due-date, machine, completion-time		cumulative, disjunctive	Prolog	CHIP			benchmark	edge-finding	315	959
GomesHS06 [256]	2	order, scheduling, distributed, task, multi-agent				Ilog Solver			real-life		239	883
GrimesH10 [258]	15	cmax, machine, job, job-shop, setup-time, flow-shop, no-wait, open-shop, scheduling, precedence, order, make-span, sequence dependent setup, task, batch process, resource	Open Shop Scheduling Problem	cycle, disjunctive, Disjunctive constraint, cumulative				steel industry	benchmark	time-tabling, edge-finding	198	842
GrimesH11 [259]	17	cmax, machine, job, job-shop, flow-shop, no-wait, open-shop, scheduling, precedence, order, make-span, completion-time, tardiness, release-date, earliness, lazy clause generation, task, due-date, resource	RCPSP	disjunctive, Disjunctive constraint, cumulative		Cplex, Ilog Solver, OPL, Ilog Scheduler			benchmark	edge-finding	184	828
GrimesHM09 [261]	9	open-shop, order, make-span, resource, job, precedence, scheduling, task, job-shop, machine	OSP, Open Shop Scheduling Problem	Balance constraint, disjunctive, Disjunctive constraint	Java	Ilog Scheduler, Choco Solver, Mistral			benchmark	edge-finding, not-last	206	850
GroleazNS20 [265]	17	precedence, release-date, job, scheduling, resource, machine, preempt, due-date, tardiness, job-shop, setup-time, order, inventory	GCSP	circuit, noOverlap, cycle, cumulative		OR-Tools, CPO		food industry	industrial instance, benchmark		48	692
GroleazNS20a [264]	9	scheduling, machine, transportation, order, tardiness, release-date, precedence, resource, setup-time, preempt, inventory, due-date, distributed, job	parallel machine, RCPSP	noOverlap, cumulative, cycle		Cplex, CPO		food industry	industrial partner, benchmark	GRASP	49	693
GruianK98 [266]	8	task, resource, re-scheduling, scheduling, order, activity		cumulative, cycle, circuit, diffn		OPL, CHIP	pipeline, aircraft		benchmark		304	948
GuSS13 [267]	7	lazy clause generation, activity, order, precedence, make-span, resource, distributed, scheduling, machine	single machine	cumulative					benchmark	edge-finding, edge-finder, time-tabling	156	800
GuSW12 [269]	15	lazy clause generation, activity, order, precedence, make-span, resource, job, preempt, scheduling, cmax		cumulative	C++				benchmark		169	813
HanenKP21 [279]	17	job-shop, resource, machine, precedence, order, tardiness, preempt, release-date, scheduling, make-span, completion-time, task, cmax, job, lateness, due-date	RCPSP, CuSP, parallel machine	cumulative	Python	Claire	pipeline		Roadef, generated instance, random instance	energetic reasoning	40	684

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
He0GLW18 [286]	18	machine, transportation, multi-agent, distributed, precedence, re-scheduling, order, scheduling			Python	Gurobi	energy-price, real-time pricing		real-world, bit-bucket		77	721
HebrardALLCMR22 [287]	7	order, scheduling, activity		cumulative	Julia	Claire	deep space			sweep	20	664
HebrardTW05 [289]	1	job-shop, order, job, machine, scheduling									255	899
HechingH16 [290]	11	order, scheduling, manpower, re-scheduling, job, Benders Decomposition, task		circuit, noOverlap		OPL, Cplex	patient, medical		real-world		110	754
HeinzB12 [292]	17	precedence, due-date, order, tardiness, scheduling, completion-time, machine, job, activity, release-date, earliness, resource, Benders Decomposition	single machine	cumulative, Channeling constraint, cycle, alternative constraint, IloAlternative		SCIP, Ilog Solver, OPL, Cplex, Ilog Scheduler				GRASP	170	814
HeinzKB13 [293]	16	release-date, job-shop, resource, machine, job, scheduling, Benders Decomposition, order, tardiness	single machine	cumulative, Channeling constraint		SCIP, Cplex, OPL					157	801
HeinzS11 [295]	10	preempt, order, scheduling, completion-time, machine, job, resource	psplib, RCPSP	disjunctive, cumulative		SCIP, Cplex			benchmark	time-tabling, energetic reasoning	185	829
HentenryckM04 [300]	16	resource, activity, job, completion-time, tardiness, scheduling, machine, open-shop, order, due-date, make-span, task, job-shop, precedence		disjunctive, cumulative, cycle					benchmark		267	911
HentenryckM08 [301]	5	order		bin-packing			steel mill		CSPLib		219	863
HermenierDL11 [302]	15	task, precedence, distributed, resource, completion-time, producer/consumer, machine, no-wait, order, scheduling		bin-packing, disjunctive, table constraint, alldifferent, cumulative, cycle		Choco Solver	datacenter				186	830
HillTV21 [304]	19	machine, job, activity, resource, release-date, precedence, preempt, lazy clause generation, scheduling, flow-shop, task, order, make-span	RCPSP, psplib, single machine	cycle, cumulative, alternative constraint					real-world		41	685
HoYCLLC18 [305]	6	task, distributed, order, job, scheduling, resource, machine, re-scheduling			C		medical, patient, nurse		real-world		78	722
HoeveGSL07 [611]	6	resource, multi-agent, scheduling, re-scheduling, job, precedence, distributed, task, job-shop, machine, order		disjunctive		Ilog Scheduler, Cplex			benchmark	edge-finding	230	874
Hooker04 [307]	12	machine, task, release-date, make-span, distributed, resource, precedence, order, tardiness, scheduling, Benders Decomposition		disjunctive, cumulative, circuit		OPL, Ilog Scheduler, Cplex			random instance		268	912

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
Hooker05a [309]	14	release-date, scheduling, make-span, task, machine, job, due-date, resource, Benders Decomposition, precedence, order, tardiness		circuit, cumulative, disjunctive		Ilog Scheduler, OPL, Cplex					256	900
Hooker17 [313]	14	job, resource, due-date, order, tardiness, scheduling		circuit					benchmark, random instance		93	737
HookerY02 [317]	5	scheduling, machine, job, resource, Benders Decomposition, order	RCPSP	cumulative, disjunctive							289	933
HoundjiSWD14 [319]	16	scheduling, machine, transportation, order, precedence, resource, inventory, due-date	single machine	circuit, Cardinality constraint, Element constraint, GCC constraint					bitbucket, generated instance		149	793
IfrimOS12 [322]	16	order, scheduling, task, machine, job, re-scheduling, distributed, due-date, resource		disjunctive			datacenter, energy-price		real-life		171	815
JelinekB16 [327]	10	completion-time, order, scheduling, task		cumulative, table constraint	Prolog	SICStus, OPL			real-life		111	755
JungblutK22 [329]	4	distributed, machine, make-span, scheduling, resource, preempt, task, order		circuit		MiniZinc			benchmark, github, real-world		21	665
JuvinHHL23 [330]	16	resource, job, scheduling, task, job-shop, due-date, machine, make-span, flow-shop, completion-time, precedence, Benders Decomposition, cmax, setup-time, order, preempt	JSSP, parallel machine	disjunctive, Disjunctive constraint, Pre-emptiveNoOverlap, alldifferent, noOverlap, endBeforeStart, AllDiffPrec constraint, cumulative	C++	CPO, Mistral			github, benchmark, supplementary material	not-last, edge-finding, not-first	5	649
JuvinHL23 [332]	16	precedence, order, tardiness, setup-time, scheduling, make-span, completion-time, task, cmax, machine, job, job-shop, flow-shop		noOverlap, endBeforeStart		Cplex, CPO			real-world		6	650
KamarainenS02 [334]	17	job-shop, resource, earliness, activity, job, order, scheduling, machine, precedence, transportation, preempt	KRFP			ECLiPSe			real-world, benchmark		290	934
KameugneFGOQ18 [337]	17	cmax, precedence, make-span, completion-time, resource, task, scheduling, order	RCPSP, CuSP	Disjunctive constraint, cumulative, disjunctive	Java	CHIP, Choco Solver			real-world, benchmark	time-tabling, sweep, not-last, energetic reasoning, not-first	79	723

Table 3: Automatically Extracted PAPER Properties (Requires Local Copy)

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
KameugneFND23 [338]	17	precedence, cmax, preempt, make-span, task, completion-time, machine, resource, order, scheduling, lazy clause generation	RCPSP, psplib, CuSP	Disjunctive constraint, disjunctive, Cumulatives constraint, cumulative	Java	Choco Solver, CHIP			benchmark	sweep, energetic reasoning, not-last, not-first, edge-finder, time-tabling, edge-finding	7	651
KameugneFSN11 [339]	15	completion-time, job-shop, release-date, resource, job, order, scheduling, precedence, preempt, make-span, task	RCPSP, psplib, CuSP	cumulative, disjunctive		Gecode			benchmark	edge-finding, not-last, not-first, time-tabling	187	831
KelarevaTK13 [342]	17	re-scheduling, task, Benders Decomposition, precedence, scheduling, transportation, setup-time, order, tardiness, make-span, resource, activity, lazy clause generation, inventory	Liner Shipping Fleet Repositioning Problem, BPCTOP, LSFRP, Bulk Port Cargo Throughput Optimisation Problem	alldifferent		Cplex, SCIP, MiniZinc	earth observation, shipping line, satellite		real-world		158	802
KeriK07 [344]	14	due-date, activity, earliness, resource, tardiness, job, temporal constraint reasoning, order, make-span, scheduling, precedence, cmax, job-shop	RCPSP	cycle	C++					edge-finding	231	875
KhemmoudjPB06 [346]	13	distributed, resource, stock level, order, scheduling		cycle, cumulative	C++	CHIP			real-world		240	884
KimCMLLP23 [347]	16	open-shop, tardiness, earliness, scheduling, transportation, machine, make-span, job, precedence, distributed, setup-time, job-shop, due-date, order	parallel machine, SCC	noOverlap	Python	OR-Tools, Gurobi		steel industry	real-world, zenodo, benchmark		8	652
KlankeBYE21 [348]	16	make-span, order, job, activity, scheduling, completion-time, resource, machine, producer/consumer, job-shop, re-scheduling, due-date, task, batch process		circuit, noOverlap, disjunctive, cumulative	Python	CHIP, OR-Tools, Gurobi, Cplex		processing industry, food-processing industry	random instance, benchmark, real-life		42	686
KletzanderM17 [349]	15	machine, resource, order, scheduling, transportation	parallel machine				torpedo	steel industry			94	738
KorbaaYG99 [353]	8	resource, scheduling, transportation, make-span, job, task, job-shop, machine, flow-shop, order		circuit, cycle	Prolog	Ilog Solver, CHIP, OZ	robot, hoist				300	944

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
KoschB14 [355]	16	resource, lateness, job-shop, release-date, multi-agent, cmax, scheduling, Benders Decomposition, completion-time, batch process, due-date, order, make-span, machine, job, distributed	RCPSP, single machine	cumulative, disjunctive, bin-packing	Java	Choco Solver, Cplex	semiconductor		benchmark		150	794
KovacsB07 [356]	15	order, tardiness, activity, preempt, release-date, earliness, scheduling, make-span, completion-time, job, due-date, job-shop, flow-shop, resource, machine	parallel machine, single machine	cumulative, Completion constraint	C++	Ilog Solver			benchmark		232	876
KovacsEKV05 [359]	1	scheduling, resource, setup-time, job-shop, precedence, job							real-life		257	901
KovacsTKSG21 [363]	17	precedence, job-shop, preempt, order, tardiness, inventory, distributed, resource, due-date, scheduling, machine, flow-shop, job, re-scheduling, task, release-date	RCPSP, single machine	cumulative		Gurobi, OR-Tools, Cplex			github, supplementary material, real-world, benchmark		43	687
KovacsV04 [361]	15	scheduling, make-span, task, job, job-shop, resource, machine, precedence, order	single machine	disjunctive, cumulative		Ilog Scheduler			industrial partner, benchmark, real-life	edge-finding	269	913
KovacsV06 [362]	13	tardiness, setup-time, earliness, scheduling, make-span, task, job, job-shop, resource, machine, precedence, order	single machine, RCPSP	cumulative		Ilog Scheduler	automotive	energy industry	industrial partner, benchmark, generated instance		241	885
KreterSS15 [364]	17	order, preempt, resource, lazy clause generation, scheduling, task, machine, activity, make-span, completion-time	RCPSP, parallel machine	cumulative, diffn, Element constraint, Calendar constraint		Cplex, MiniZinc, CHIP, Chuffed			benchmark		128	772
KrogtLPHJ07 [610]	13	resource, due-date, job-shop, precedence, order, job, inventory, activity, machine, scheduling		circuit	Prolog	OPL	semiconductor aircraft	semiconductor industry	real-world		233	877
KucukY19 [370]	5	distributed, resource, sequence dependent setup, task, order, scheduling, setup-time		disjunctive, noOverlap, cycle cycle		Cplex	earth observation, satellite		benchmark, generated instance	time-tabling	64	708
Kumar03 [369]	15	order, scheduling, producer/consumer, activity, resource								max-flow, bi-partite matching	279	923
Laborie09 [372]	15	task, machine, job, sequence dependent setup, inventory, due-date, job-shop, preempt, resource, precedence, order, tardiness, activity, setup-time, release-date, earliness, scheduling		noOverlap, endBeforeStart, cumulative, disjunctive, alternative constraint	C	CPO, OPL	satellite, aircraft		real-world, benchmark		207	851
Laborie18a [373]	9	resource, job, release-date, scheduling, task, due-date, machine, precedence, Benders Decomposition		cumulative, alternative constraint		Ilog Scheduler, CPO, OPL			real-world, real-life, benchmark	energetic reasoning	80	724

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
LacknerMMWW21 [375]	18	release-date, flow-shop, job, order, tardiness, scheduling, machine, lateness, earliness, batch process, setup-time, due-date, make-span, task	OSP, single machine, parallel machine	cumulative, endBeforeStart, noOverlap, Element constraint		Chuffed, Cplex, OPL, CPO, MiniZinc, Gurobi, OR-Tools	semiconductor oven scheduling	manufacturing industry, electronics industry, steel industry	benchmark, instance generator, real-life, random instance, industrial partner, supplementary material	GRASP	44	688
LahimerLH11 [377]	14	resource, machine, preempt, cmax, task, precedence, make-span, order, job, scheduling, completion-time	parallel machine, RCPSP	Disjunctive constraint, disjunctive	C++	Ilog Scheduler			benchmark	energetic reasoning	188	832
LauLN08 [380]	5	job, order, resource, scheduling, transportation, job-shop, machine, distributed, inventory, flow-shop							real-world, benchmark		220	864
LetortBC12 [385]	16	task, machine, make-span, precedence, order, resource, scheduling	psplib	Cumulatives constraint, cumulative, geost, bin-packing	Java, Prolog	Choco Solver, CHIP, SICStus	datacenter		Roadef, benchmark, random instance	sweep, edge-finding	172	816
LetortCB13 [386]	16	machine, make-span, precedence, order, resource, scheduling, task	psplib, RCPSP	Disjunctive constraint, cumulative, disjunctive, bin-packing	Java, Prolog	Choco Solver, SICStus			Roadef, benchmark, random instance	energetic reasoning, sweep, edge-finding	159	803
LiFJZLL22 [389]	6	completion-time, task, tardiness, buffer-capacity, flow-time, blocking constraint, distributed, job-shop, batch process, flow-shop, transportation, machine, job, setup-time, no-wait, scheduling, order, make-span	single machine	Blocking constraint		OPL	robot		benchmark		22	666
LimBTBB15 [393]	15	scheduling, order, tardiness, earliness, job-shop, multi-agent, machine, job, re-scheduling				OPL	HVAC		benchmark	time-tabling	129	773
LimHTB16 [392]	18	machine, activity, multi-agent, distributed, re-scheduling, order, scheduling		cumulative		OPL	HVAC, energy-price, real-time pricing		real-world		112	756
LimRX04 [391]	5	scheduling, machine, preempt, completion-time, transportation, job, order					container terminal		generated instance		270	914
Limtanyakul07 [394]	6	make-span, task, release-date, machine, resource, job, order, scheduling, due-date, precedence		cumulative		OPL	robot	automobile industry	real-life	energetic reasoning	234	878
LipovetzkyBPS14 [396]	9	make-span, scheduling, resource, precedence, Benders Decomposition, task, order, transportation		disjunctive		Cplex	crew-scheduling		real-life, real-world, industrial partner, benchmark, generated instance		151	795

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
LiuCGM17 [398]	17	order, scheduling, machine, task, activity, transportation, cmax		Element constraint	Python	OR-Tools, OPL, MiniZinc		tourism industry	github		95	739
LiuJ06 [399]	5	make-span, resource, task, order, scheduling		disjunctive, Disjunctive constraint, cycle							242	886
LiuLH19 [397]	9	order, resource, scheduling		Channeling constraint		Choco Solver			benchmark, CSPLib	time-tabling	65	709
LombardiBM15 [401]	16	task, completion-time, precedence, scheduling, machine, order, make-span, job-shop, resource, activity, distributed, job	JSSP, RCPSP, psplib						benchmark, real-world		130	774
LombardiBMB11 [402]	17	order, make-span, task, precedence, resource, activity, completion-time, scheduling, machine	RCPSP	cycle, cumulative	C++		hoist		benchmark, industrial instance, real-life		189	833
LombardiM09 [403]	15	precedence, make-span, order, activity, scheduling, resource, preempt, completion-time, task	RCPSP	Balance constraint		Ilog Solver			instance generator, real-world		208	852
LombardiM10 [405]	15	precedence, make-span, order, activity, scheduling, resource, completion-time, task	RCPSP	Disjunctive constraint, disjunctive, cumulative		Ilog Solver			real-world, benchmark		199	843
LombardiM13 [408]	2	precedence, make-span, order, activity, scheduling, resource, task	RCPSP, psplib								160	804
LouieVNB14 [414]	7	order, resource, job, scheduling, task, machine, activity		cycle		OPL	patient, robot				152	796
LuoB22 [418]	17	order, scheduling, re-scheduling, job, Benders Decomposition, resource, machine, batch process, job-shop		AlwaysConstant, bin-packing, diffn, Element constraint, cumulative, alwaysIn	Python	CHIP, Cplex	super-computer, rectangle-packing, railway	metal industry	real-life, industry partner, real-world, generated instance, github, industrial instance		23	667
LuoVLBM16 [417]	4	task, job, job-shop, resource, machine, precedence, order, activity, scheduling					nurse			time-tabling	113	757
Madi-WambaB16 [419]	16	precedence, task, resource, job, order, scheduling		cumulative, TaskIntersection constraint	Java	Choco Solver, CHIP			real-world, benchmark, random instance, generated instance		114	758
Madi-WambaLOBM17 [420]	8	job, distributed, scheduling, order, machine, task, re-scheduling, activity, precedence, resource		bin-packing, cumulative, Cumulatives constraint, Element constraint	Prolog	SICStus	datacenter		real-world	sweep	96	740
MakMS10 [421]	5	inventory, task, job, resource, scheduling, due-date, order, machine, activity, transportation, precedence		cycle							200	844

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
MalapertCGJLR13 [424]	2	flow-shop, order, make-span, scheduling, cmax, open-shop, resource, preempt, precedence, task, job, job-shop, machine	single machine, Open Shop Scheduling Problem	disjunctive, cumulative	Java	Choco Solver			benchmark, real-life		161	805
MalapertN19 [425]	17	sequence dependent setup, order, job, flow-time, machine, cmax, make-span, scheduling, completion-time, resource, setup-time, task	PMSP, PTC, parallel machine, single machine	noOverlap, cumulative, alternative constraint, alwaysIn		Cplex, CPO	semiconductor		benchmark, generated instance, industrial instance, Roadeff		66	710
MaraveliasG04 [428]	20					OZ					271	915
Mehdizadeh-Somarin23 [432]	14	make-span, preempt, multi-agent, completion-time, tardiness, scheduling, cmax, job, setup-time, precedence, order, job-shop, re-scheduling, machine, flow-shop, task	JSSP, parallel machine, single machine		Python	Cplex	COVID, robot		random instance		9	653
MelgarejoLS15 [11]	17	tardiness, scheduling, machine, order, task, precedence, transportation, setup-time, resource, job	single machine	alldifferent, noOverlap, circuit, Disjunctive constraint, disjunctive, table constraint		Cplex			real-world, benchmark		131	775
Mercier-AubinGQ20 [439]	13	order, Benders Decomposition, job, make-span, sequence dependent setup, tardiness, resource, precedence, completion-time, machine, activity, due-date, preempt, task, setup-time, earliness, lazy clause generation, job-shop, scheduling	RCPSP	circuit, cumulative, disjunctive, cycle	C++, Python	OPL, MiniZinc		textile industry, manufacturing industry	industrial instance, industrial partner		50	694
MoffittPP05 [444]	6	order, activity, machine, cmax, make-span, scheduling, resource	Temporal Constraint Satisfaction Problem	cycle, disjunctive							258	902
MonetteDD07 [446]	14	machine, precedence, make-span, job, scheduling, completion-time, resource, preempt, no preempt, task, job-shop, open-shop, order	Open Shop Scheduling Problem, OSP	disjunctive		Gecode			benchmark	not-last, not-first, edge-finding	235	879
MonetteDH09 [447]	8	machine, precedence, release-date, tardiness, make-span, job, scheduling, completion-time, resource, preempt, earliness, due-date, task, job-shop, order, activity, distributed		cycle, disjunctive, cumulative					benchmark	not-last	209	853
MossigeGSMC17 [450]	18	activity, job, order, completion-time, scheduling, machine, precedence, distributed, preempt, make-span, task, job-shop, resource	single machine, FJS, RCPSP	Cumulatives constraint, cumulative, cycle, disjunctive	Prolog	CHIP, SIC-Stus	robot, rectangle-packing		real-world, benchmark, random instance, CSPlib, generated instance, industrial partner		97	741

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
MouraSCL08 [452]	16	scheduling, preempt, transportation, precedence, distributed, activity, order, inventory, resource		table constraint, Element constraint, Channeling constraint, cycle, disjunctive	C++	Ilog Solver, Ilog Scheduler	pipeline			max-flow	221	865
MouraSCL08a [451]	8	order, scheduling, resource, transportation, re-scheduling, due-date, inventory, distributed		Channeling constraint, disjunctive, cumulative	C++	Ilog Scheduler, Ilog Solver	pipeline		real-world, benchmark		222	866
MurinR19 [454]	16	job-shop, make-span, transportation, resource, scheduling, Benders Decomposition, completion-time, precedence, task, order, machine, setup-time, job, activity	JSPT	alternative constraint, noOverlap, endBeforeStart		Cplex, OPL	robot, patient		github, benchmark, real-life		67	711
MurphyMB15 [455]	17	scheduling, task, machine, activity, order, re-scheduling, resource		cycle, circuit, Disjunctive constraint, cumulative, disjunctive	Java	Choco Solver			real-world		132	776
Muscettola02 [456]	16	job-shop, resource, activity, job, cmax, precedence, scheduling, order		cycle, Balance constraint						edge-finding, max-flow	291	935
MusliuSS18 [457]	17	distributed, activity, order, scheduling, manpower, task, machine		Regular constraint, cycle, Cardinality constraint		Gecode, Gurobi, MiniZinc	operating room, nurse		generated instance, benchmark, real-life		81	725
NattafM20 [469]	16	setup-time, scheduling, order, make-span, completion-time, flow-time, resource, machine, job	single machine, PMSP, parallel machine, PTC	cumulative, noOverlap		CPO, Cplex	semiconductor		benchmark, industrial instance		51	695
NishikawaSTT18 [472]	6	order, precedence, scheduling, make-span, resource, activity, task, distributed		alternative constraint, endBeforeStart		Cplex	pipeline, robot		real-world, benchmark		82	726
NishikawaSTT18a [473]	6	order, make-span, scheduling, resource, precedence, task, activity, distributed, re-scheduling		endBeforeStart, alternative constraint		Cplex	nurse, pipeline, robot		benchmark, real-life, real-world		83	727
NuijtenA94 [480]	5	resource, scheduling, preempt, machine, make-span, job, precedence, job-shop, completion-time, order	JSSP	disjunctive, Disjunctive constraint	C++	Ilog Solver, CPO			time-tabling		322	966
OddiPCC03 [484]	15	distributed, resource, machine, preempt, scheduling, precedence, order, completion-time, task, activity	single machine	cycle	Java		satellite, earth observation		benchmark		280	924

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
OuelletQ13 [486]	16	scheduling, task, make-span, completion-time, precedence, order, preempt, resource	RCPSP, CuSP, psplib	Cumulatives constraint, cumulative, disjunctive		Choco Solver			benchmark	edge-finder, energetic reasoning, time-tabling, sweep, edge-finding, not-first, not-last	162	806
OuelletQ18 [487]	18	scheduling, task, make-span, completion-time, precedence, order, resource	RCPSP, psplib	Cumulatives constraint, cumulative, disjunctive	Java	Choco Solver			benchmark, RoaDef	energetic reasoning, time-tabling, edge-finding, not-first, not-last	84	728
OuelletQ22 [488]	17	scheduling, task, activity, completion-time, order, preempt, resource, lazy clause generation		GCC constraint, Cumulatives constraint, cumulative, Cardinality constraint, disjunctive, SoftCumulative	Java	MiniZinc, Choco Solver	nurse		github, benchmark, random instance	energetic reasoning, time-tabling, sweep, edge-finding, not-first, not-last	24	668
OujanaAYB22 [489]	6	due-date, tardiness, make to order, job-shop, buffer-capacity, setup-time, sequence dependent setup, open-shop, task, order, distributed, precedence, flow-shop, batch process, make-span, job, scheduling, completion-time, resource, machine, preempt	HFF, PMSP, parallel machine, FJS	span constraint, noOverlap, disjunctive		CPO, OPL	robot, COVID	steel industry, food industry	industrial instance, real-world, benchmark, real-life		25	669
ParkUJR19 [495]	8	machine, order, tardiness, preempt, scheduling, make-span, completion-time, task, flow-time, cmax, job, lateness, no preempt, distributed, due-date, job-shop, flow-shop, resource, open-shop	parallel machine, single machine	endBeforeStart, cycle, noOverlap				trade industry	real-world		68	712
PembertonG98 [496]	14	scheduling, machine, order, job-shop, resource, activity, preempt, job, task		geost, cycle		Ilog Solver, OPL	robot, satellite				305	949
PerezGSL23 [498]	7	inventory, order, transportation, re-scheduling, resource, scheduling, task, machine, activity, make-span, completion-time		table constraint, cumulative		OPL	container terminal, operating room, nurse, steel mill		real-world, generated instance		10	654

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
PesantRR15 [500]	16	transportation, lazy clause generation, scheduling, activity, order		cumulative, Cardinality constraint, Regular constraint, table constraint		Ilog Solver, Gecode, Gurobi					133	777
PoderB08 [502]	8	resource, release-date, preempt, due-date, order, scheduling, producer/consumer, task, activity		cumulative		CHIP				sweep	223	867
PopovicCGNC22 [506]	15	order, completion-time, scheduling, machine, transportation, make-span, task, resource, activity	TMS	Balance constraint, cumulative, noOverlap, alwaysIn	C++, Prolog	SICStus, Cplex, CHIP	pipeline	electricity industry			26	670
PovedaAA23 [508]	21	make-span, resource, job, precedence, Benders Decomposition, lazy clause generation, release-date, task, job-shop, activity, order, scheduling, preempt	RCPSP	Calendar constraint, cumulative, disjunctive	Python	Cplex, MiniZinc, Chuffed, CPO	automotive, aircraft		github, benchmark, industrial instance, real-world, real-life	GRASP	11	655
Pralet17 [509]	19	setup-time, job, activity, job-shop, sequence dependent setup, resource, scheduling, precedence, due-date, order, make-span, machine	JSSP, RCPSP, psplib	cycle, cumulative, disjunctive		CPO, Cplex, CHIP	satellite		benchmark		98	742
PraletLJ15 [510]	16	task, job-shop, activity, make-span, precedence, due-date, tardiness, order, resource, job, scheduling	JSSP	alternative constraint, Regular constraint, noOverlap, cycle		CPO, Cplex	earth observation, satellite				134	778
Puget95 [512]	4	resource, task, job, order, scheduling, transportation, manpower, job-shop, activity		disjunctive		OPL			benchmark		316	960
QuSN06 [515]	4	task, scheduling, precedence, distributed, resource		circuit	Prolog	SICStus					243	887
QuirogaZH05 [516]	6	machine, release-date, tardiness, scheduling, completion-time, resource, earliness, due-date, task, precedence, flow-shop, make-span, order, inventory, activity, flow-time				Ilog Solver, OPL, ECLiPSe, Ilog Scheduler	robot				259	903
RendlPHPR12 [518]	17	job, scheduling, machine, transportation, re-scheduling, order			Java		medical, patient, nurse		real-world, CSPLib, benchmark		173	817
RiahiNS018 [519]	9	no-wait, flow-shop, completion-time, tardiness, order, buffer-capacity, sequence dependent setup, job, scheduling, blocking constraint, distributed, setup-time, machine, make-span		Blocking constraint			cutting industry, painting industry		real-world, real-life, benchmark	NEH, GRASP	85	729
RodosekW98 [520]	15	order, resource, scheduling, task, transportation, machine, activity, make-span, job		disjunctive, cycle, circuit, Disjunctive constraint	Prolog	OPL, CHIP, ECLiPSe, Cplex	hoist, electroplating		benchmark		306	950

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
RossiTHP07 [526]	15	inventory, order, resource, scheduling, distributed, stock level		cumulative, cycle		OPL, Choco Solver					236	880
Sadykov04 [529]	7	release-date, scheduling, completion-time, task, machine, job, lateness, due-date, preempt, precedence	parallel machine, single machine	disjunctive						edge-finding	272	916
SchausD08 [532]	6	precedence, order, task, preempt		IloPack, bin-packing, cycle, Reified constraint, Element constraint		Ilog Solver, OPL			real-life, benchmark		224	868
SchuttCSW12 [537]	17	scheduling, resource, preempt, lazy clause generation, order, activity, precedence, make-span		cumulative		CHIP			benchmark		174	818
SchuttFS13 [539]	17	resource, job, lazy clause generation, scheduling, task, job-shop, machine, activity, make-span, completion-time, precedence, order	RCPSP, FJS	disjunctive, Disjunctive constraint, span constraint, alternative constraint, cumulative		MiniZinc			benchmark	energetic reasoning, time-tabling	163	807
SchuttFS13a [538]	17	make-span, scheduling, completion-time, resource, machine, preempt, lazy clause generation, task, order, activity, precedence	psplib, RCPSP	circuit, disjunctive, cumulative		SCIP, CHIP			benchmark	not-last, energetic reasoning, edge-finding	164	808
SchuttFSW09 [540]	16	scheduling, resource, machine, preempt, lazy clause generation, open-shop, task, order, activity, precedence, make-span, job	psplib	Disjunctive constraint, disjunctive, cumulative		ECLiPSe, CHIP, SICStus			real-world, benchmark	edge-finder	210	854
SchuttS16 [545]	17	machine, precedence, order, inventory, activity, preempt, manpower, scheduling, make-span, producer/consumer, lazy clause generation, resource	RCPSP	Balance constraint, Cumulatives constraint, cumulative		Chuffed, MiniZinc, OPL, Ilog Scheduler			benchmark		115	759
SchuttW10 [546]	15	order, activity, preempt, release-date, scheduling, make-span, task, lazy clause generation, due-date, resource	CuSP, psplib, RCPSP	disjunctive, Disjunctive constraint, cumulative	Java	CHIP	rectangle-packing		benchmark	not-last, edge-finding, not-first	201	845
SchuttWS05 [547]	15	task, due-date, machine, order, preempt, resource, release-date, scheduling		cumulative, disjunctive		OPL, CHIP			benchmark	not-last	260	904
SerraNM12 [548]	17	inventory, preempt, resource, precedence, order, activity, release-date, scheduling, machine		cumulative, alwaysIn, cycle		OPL, Cplex			real-world, benchmark	GRASP	175	819
SialaAH15 [555]	10	make-span, task, cmax, job, job-shop, resource, open-shop, machine, precedence, order, tardiness, setup-time, earliness, lazy clause generation, scheduling	RCPSP, JSSP	Disjunctive constraint, cumulative, disjunctive		Mistral			github, benchmark	edge-finding	135	779

Table 3: Automatically Extracted PAPER Properties (Requires Local Copy)

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
SimoninAHL12 [556]	15	resource, activity, scheduling, task, precedence, preempt, order		disjunctive, span constraint, cycle, cumulative		CHIP	satellite			sweep	176	820
Simonis95 [559]	4	scheduling, task, producer/consumer, resource, transportation, machine, precedence, order		diffn, Among constraint, cumulative, cycle, circuit	Prolog	CHIP	aircraft	food industry			317	961
Simonis95a [558]	21	scheduling, manpower, task, machine, job, precedence, distributed, stock level, due-date, order, inventory, producer/consumer, resource		cycle, diffn, circuit, cumulative	Prolog, C++	OPL, CHIP	aircraft, pipeline	chemical industry, drawing industry	real-life, benchmark		318	962
Simonis99 [560]	39	scheduling, task, producer/consumer, job, inventory, due-date, manpower, resource, transportation, stock level, machine, precedence, order, activity		disjunctive, Disjunctive constraint, diffn, cumulative, alldifferent, cycle, circuit	C++, Prolog	OPL, CHIP, ECLiPSe, SICStus	aircraft, pipeline, nurse	chemical industry, food industry, process industry	benchmark, real-world, real-life	bi-partite matching	301	945
SimonisC95 [563]	14	scheduling, manpower, task, transportation, machine, job, stock level, continuous-process, job-shop, due-date, flow-shop, order, inventory, batch process, producer/consumer, resource		diffn, cumulative	Prolog	CHIP	aircraft, pipeline	food industry	real-life		319	963
SimonisH11 [564]	14	preempt, manpower, task, order, producer/consumer, resource, scheduling		Element constraint, CumulativeCost, Cumulatives constraint, cumulative		Choco Solver, CHIP, Cplex			real-life, real-world	sweep, edge-finding	190	834
SquillaciPR23 [566]	17	multi-agent, distributed, task, resource, activity, order, scheduling	EOSP, OSP, Earth Observation Scheduling Problem	noOverlap	Python	Cplex	earth orbit, earth observation, satellite		github, benchmark	GRASP	12	656
SunLYL10 [569]	6	task, order, distributed, scheduling		cycle		OPL, Cplex	automotive				202	846
SvancaraB22 [571]	8	multi-agent, batch process, make-span, order, activity, scheduling, resource, task		alternative constraint, noOverlap			railway		benchmark, real-world	time-tabling	27	671
SzerediS16 [572]	10	task, machine, activity, order, preempt, make-span, resource, precedence, lazy clause generation, scheduling	RCPSP, psplib	Element constraint, cumulative		Cplex, MiniZinc, SCIP, Chuffed, Gecode			benchmark		116	760
TanT18 [574]	12	flow-shop, Benders Decomposition, machine, cmax, release-date, job-shop, task, scheduling, completion-time, precedence, make-span, re-scheduling, job, setup-time	single machine, parallel machine	Disjunctive constraint, disjunctive		Cplex	medical, operating room, patient, robot		benchmark		86	730

Table 3: Automatically Extracted PAPER Properties (Requires Local Copy)

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
TangB20 [575]	16	job, flow-shop, resource, make-span, scheduling, tardiness, due-date, order, batch process, machine, precedence, Benders Decomposition	HFS, 2BPHFSP, single machine	span constraint, bin-packing, alwaysIn, Cardinality constraint, Element constraint, cycle, endBeforeStart, GCC constraint	Java	CPO, Cplex	semiconductor	manufacturing industry	real-world		52	696
TardivoDFMP23 [577]	18	activity, order, scheduling, lazy clause generation, task, precedence, preempt, make-span, resource	RCPSP, psplib, CuSP	cumulative, disjunctive, Cumulatives constraint	C++	CHIP, Gecode, MiniZinc			benchmark, bit-bucket, github, real-world	sweep, energetic reasoning, not-last, not-first, edge-finding, time-tabling	13	657
TasselGS23 [578]	9	flow-shop, completion-time, order, tardiness, resource, scheduling, preempt, flow-time, task, machine, re-scheduling, make-span, job, precedence, job-shop	JSSP	cumulative, disjunctive, noOverlap	Java	Choco Solver			industrial instance, real-world, supplementary material, github, benchmark		14	658
Teppan22 [581]	8	job-shop, make-span, cmax, preempt, distributed, resource, scheduling, flow-shop, task, order, completion-time, machine, setup-time, job	parallel machine, JSSP, PTC, FJS	noOverlap, endBeforeStart	Java	OR-Tools, OPL			benchmark, real-life		28	672
Tesch16 [584]	27	job, resource, make-span, scheduling, order, completion-time, precedence	CuSP, psplib, RCPSP	cumulative, disjunctive	C++	OPL			Roadef	energetic reasoning, not-first, sweep, edge-finding, not-last, time-tabling	117	761
Tesch18 [585]	17	preempt, task, job, release-date, resource, make-span, scheduling, due-date, order, machine, completion-time, precedence, lateness	CuSP, psplib, RCPSP, single machine	cumulative					Roadef	energetic reasoning, sweep, edge-finding, not-last, time-tabling	87	731
ThiruvadyBME09 [586]	15	due-date, make-span, resource, setup-time, tardiness, open-shop, machine, job, scheduling, order	single machine	cumulative	C++	Gecode					211	855
ThomasKS20 [588]	18	order, transportation, resource, scheduling, activity		cumulative	C , Java	CPO, OR-Tools, OPL, Cplex	medical, patient		CSPlib, benchmark, generated instance, bit-bucket		53	697
Thorsteinsson01 [589]	15	order, Benders Decomposition, scheduling, job, machine, precedence, task, due-date	parallel machine	alldifferent, cumulative, circuit, Arithmetic constraint		OPL					294	938

Table 3: Automatically Extracted PAPER Properties (Requires Local Copy)

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
Tom19 [591]	6	task, tardiness, resource, job-shop, job, re-scheduling, activity, scheduling, make-span, machine, transportation	single machine		Java	OPL			real-world		69	713
TouatBT22 [594]	8	job, no preempt, distributed, due-date, job-shop, flow-shop, resource, machine, precedence, order, tardiness, activity, preempt, release-date, earliness, scheduling, make-span, completion-time, task	RCPSP, single machine	noOverlap		Cplex, OPL	robot, satellite, container terminal		generated instance, benchmark	time-tabling	29	673
Touraivane95 [595]	3	order, scheduling, task			Prolog		crew-scheduling		real-life		320	964
TranB12 [597]	6	setup-time, due-date, Benders Decomposition, release-date, resource, make-span, scheduling, sequence dependent setup, tardiness, job, order, machine, completion-time, distributed, precedence, cmax	PMSP, single machine, parallel machine	cycle, circuit	C++	Cplex			benchmark		177	821
TranDRFWOVB16 [598]	9	resource, activity, re-scheduling, job, order, scheduling, machine, task, job-shop, precedence		cycle	Python	OPL	aircraft				118	762
TranTDB13 [600]	9	flow-shop, resource, cmax, machine, job, re-scheduling, setup-time, scheduling, order, make-span, task, flow-time, distributed	parallel machine	cycle	C++	Cplex			real-world		165	809
TranVNB17a [602]	5	scheduling, task, transportation, machine, activity, setup-time, order, resource		alternative constraint, cumulative		Cplex	medical, robot		real-world		99	743
TranWDRFOVB16 [603]	9	job, order, scheduling, task, precedence, activity, job-shop, machine	single machine	cumulative, cycle	Python	OPL, Ilog Scheduler	robot, satellite		benchmark		119	763
ValleMGT03 [607]	8	machine, order, scheduling, transportation, make-span, resource, job, precedence, task, job-shop				Ilog Solver	robot		real-life	edge-finder	281	925
VanczaM01 [612]	15	resource, machine, order, scheduling, precedence, task		cycle, disjunctive, Disjunctive constraint			robot		real-world, real-life		295	939
VerfaillieL01 [613]	15	task, job-shop, job, open-shop, order, scheduling	Open Shop Scheduling Problem	cycle		Cplex, OPL	earth observation, satellite				296	940
Vilim02 [614]	1	resource, scheduling, precedence, sequence dependent setup, batch process, activity, setup-time		cumulative, disjunctive						edge-finding	292	936
Vilim03 [615]	1	job, open-shop, order, scheduling, job-shop		cumulative, disjunctive						edge-finding, not-last	282	926

Table 3: Automatically Extracted PAPER Properties (Requires Local Copy)

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
Vilim04 [616]	13	task, job, order, resource, scheduling, precedence, sequence dependent setup, batch process, machine, completion-time, activity, setup-time, job-shop		cumulative, disjunctive					benchmark	edge-finding, sweep, not-last	273	917
Vilim05 [617]	14	preempt, task, job, open-shop, order, resource, make-span, scheduling, precedence, machine, completion-time, activity, job-shop		cumulative, disjunctive	C++				benchmark	not-last	261	905
Vilim09 [618]	15	preempt, job, order, resource, scheduling, precedence, completion-time, activity, job-shop		cumulative, cycle		CPO				energetic reasoning, edge-finding, not-first, not-last	212	856
Vilim09a [619]	15	order, scheduling, completion-time, task, activity, resource, preempt		cycle, cumulative		Ilog Scheduler				edge-finding, not-last, energetic reasoning	213	857
Vilim11 [620]	16	preempt, task, order, resource, scheduling, precedence, machine, completion-time, activity, manpower	psplib, RCPSP	cumulative, disjunctive, cycle					benchmark	energetic reasoning, edge-finding, sweep, not-last, time-tabling	191	835
VilimBC04 [621]	15	scheduling, make-span, completion-time, job, distributed, job-shop, resource, open-shop, machine, precedence, order, activity		disjunctive, cumulative					benchmark, real-life	edge-finding, not-first, not-last	274	918
VilimLS15 [623]	17	machine, precedence, order, activity, earliness, scheduling, make-span, completion-time, task, cmax, job, job-shop, resource	psplib, RCPSP	disjunctive, noOverlap, cumulative		Cplex, CPO	rectangle-packing		benchmark	time-tabling	136	780
Wallace06 [628]	32	earliness, task, resource, machine, job, job-shop, transportation, scheduling, Benders Decomposition, order, tardiness		cycle, Channeling constraint, circuit		Z3, CHIP, Cplex, ECLiPSe, OPL	hoist		benchmark, real-world, RoadeF		244	888
WangB20 [630]	8	task, resource, scheduling, job, order, machine, distributed	Fixed Job Scheduling, FJS	AllDiff constraint, alldifferent, Min-WeightAllDiff, WeightAllDiff		Gurobi	aircraft		github		54	698
WangB23 [631]	8	task, resource, scheduling, job, lazy clause generation, order, transportation	Fixed Job Scheduling, FJS	alldifferent, Channeling constraint, Min-WeightAllDiff, WeightAllDiff		Gurobi	crew-scheduling, operating room, aircraft		random instance, real-world		15	659

Table 3: Automatically Extracted PAPER Properties (Requires Local Copy)

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
WatsonB08 [634]	15	job-shop, resource, machine, order, scheduling, make-span, completion-time, cmax, job		disjunctive	C++	Ilog Scheduler			real-world, benchmark		225	869
WessenCS20 [635]	10	make-span, completion-time, precedence, order, multi-agent, job, scheduling, task, job-shop		circuit		Gecode	robot		real-world		55	699
WinterMMW22 [637]	18	tardiness, setup-time, task, order, distributed, precedence, release-date, job, scheduling, completion-time, resource, machine, due-date	PMSp, parallel machine	noOverlap, alternative constraint		CPO, Gurobi, Cplex	farming	manufacturing industry, agricultural industry	supplementary material, zenodo, industrial partner, benchmark, real-life, industry partner		30	674
Wolf03 [638]	15	resource, job, machine, job-shop, task, order, preempt, scheduling, completion-time, make-span, activity		cumulative, Disjunctive constraint, disjunctive	Java		pipeline		benchmark	not-last, edge-finding, not-first, sweep	283	927
Wolf05 [639]	15	resource, job, machine, job-shop, task, order, preempt, scheduling, completion-time, precedence, make-span, activity		cumulative	Java	Ilog Scheduler			benchmark	not-last, edge-finding, not-first, sweep	262	906
Wolf09 [642]	17	resource, job, machine, job-shop, task, order, preempt, scheduling		WeightedSum, Weighted-TaskSum	Java	CHIP, SICStus, OPL	operating room, patient, surgery		real-life	not-last, edge-finding, not-first, sweep	214	858
Wolf11 [640]	17	distributed, resource, inventory, machine, producer/consumer, task, order, preempt, scheduling, sequence dependent setup, activity, transportation, setup-time	single machine	cumulative, Element constraint, Cumulatives constraint, alternative constraint	Java	CHIP, OPL	medical, nurse, physician, operating room, patient, surgery				192	836
WolfS05 [641]	14	order, completion-time, scheduling, distributed, preempt, activity, task, resource		cumulative		CHIP			real-world	energetic reasoning, sweep, not-last	263	907
WolinskiKG04 [643]	8	resource, precedence, scheduling, machine, order, distributed	SCC	Diff2 constraint, cycle	Java		pipeline				276	920
WuBB05 [644]	1	resource, job, release-date, scheduling, make-span				Ilog Scheduler			benchmark		264	908
YangSS19 [646]	10	resource, preempt, order, scheduling, completion-time, machine, task, activity, lazy clause generation		cumulative, disjunctive	Prolog	Choco Solver, Gecode, CHIP, OR-Tools, SICStus, OPL	rectangle-packing		generated instance	energetic reasoning, edge-finding, not-last	70	714
YoungFS17 [648]	10	lazy clause generation, scheduling, make-span, task, resource, machine, precedence, order, activity, preempt	psplib, RCPSP	disjunctive, cumulative		Chuffed, MiniZinc			benchmark, github, instance generator	time-tabling	100	744

Table 3: Automatically Extracted PAPER Properties (Requires Local Copy)

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
YuraszeckMC23 [651]	6	job, open-shop, order, scheduling, due-date, make-span, precedence, cmax, distributed, preempt, job-shop, flow-time, release-date, machine	OSSP, JSSP	noOverlap					benchmark, github		16	660
ZhangBB22 [660]	9	preempt, scheduling, precedence, order, make-span, completion-time, task, distributed, job-shop, resource, cmax, machine, job, lateness	single machine	disjunctive, span constraint, Disjunctive constraint, cycle	Python	OPL, Gurobi, CPO			benchmark, generated instance		31	675
ZhangJZL22 [659]	6	resource, scheduling, task, transportation, machine, make-span, job, precedence, setup-time, due-date, flow-shop, completion-time, order, tardiness	single machine, parallel machine, HFS	noOverlap, endBeforeStart, alternative constraint, cumulative			semiconductor		benchmark		32	676
ZhangLS12 [663]	4	scheduling, order, cmax								time-tabling	178	822
Zhou96 [664]	15	release-date, job-shop, due-date, task, order, scheduling, completion-time, precedence, job, machine		Disjunctive constraint, disjunctive	Prolog	Z3				edge-finding	314	958
ZhouGL15 [666]	5	distributed, resource, tardiness, job-shop, flow-shop, re-scheduling, task, order, scheduling, completion-time, machine, setup-time, job, make-span, transportation, cmax	HFF, FJS, HFS, parallel machine	cumulative		CHIP, Gecode, OR-Tools	railway		real-world	GRASP, NEH	137	781
ZhuS02 [667]	5	activity, distributed, resource, scheduling									293	937
ZibranR11 [669]	4	scheduling, order, activity			Java	Cplex, OPL					193	837
ZibranR11a [670]	10	scheduling, distributed, activity, order, resource				Cplex, OPL				time-tabling	194	838

2.3 Manually Defined Fields

Table 4: Manually Defined PAPER Properties

Key	Title (Local Copy)	CP System	Bench	Links	Data Avail	Sol Avail	Code Avail	Related To	Classification	Constraints	a	b
BonninMNE24 BonninMNE24 [114]	Toward a Global Constraint for Minimizing the Flowtime		benchmark, real-life	0							1	384
AalianPG23 AalianPG23 [1]	Optimization of Short-Term Underground Mine Planning Using Constraint Programming	CP Opt	real-world	1	n		n			?	2	327
Bit-Monnot23 Bit-Monnot23 [96]	Enhancing Hybrid CP-SAT Search for Disjunctive Scheduling	ARIES CP Opt OR-Tools Mistral OR-Tools	benchmark, real-world, github	1	y		y	-	JSSP OSSP	-	3	373
EfthymiouY23 EfthymiouY23 [195]	Predicting the Optimal Period for Cyclic Hoist Scheduling Problems		generated instance, benchmark, random instance, real-life, industrial instance	3	n		n	-	CHSP	-	4	418
JuvinHHL23 JuvinHHL23 [330]	An Efficient Constraint Programming Approach to Preemptive Job Shop Scheduling	CP Opt Mistral	github, benchmark, supplementary material	6	ref		y		PJSSP	endBeforeStart span noOverlap	5	479
JuvinHL23 JuvinHL23 [332]	Constraint Programming for the Robust Two-Machine Flow-Shop Scheduling Problem with Budgeted Uncertainty	CP Opt Cplex	real-world	0	ref		n	-	Perm FSSP	endBeforeStart noOverlap	6	480
KameugneFND23 KameugneFND23 [338]	Horizontally Elastic Edge Finder Rule for Cumulative Constraint Based on Slack and Density	?	benchmark	5	BL PSPLib		n	-	RCPSPs	sameSequence cumulative	7	483
KimCMLLP23 KimCMLLP23 [347]	Iterated Greedy Constraint Programming for Scheduling Steelmaking Continuous Casting	Gurobi OR-Tools	real-world, zenodo, benchmark	0	y		n	-	SCC	alternative noOverlap	8	488
Mehdizadeh-Somarin23 Mehdizadeh-Somarin23 [432]	A Constraint Programming Model for a Reconfigurable Job Shop Scheduling Problem with Machine Availability	CP Opt	random instance	0	n		n	-	JSSP RMS	alternative endBeforeStart noOverlap	9	532
PerezGSL23 PerezGSL23 [498]	A Constraint Programming Model for Scheduling the Unloading of Trains in Ports	custom	real-world, generated instance	0	n		n	-	SUTP	table disjunctive	10	556
PovedaAA23 PovedaAA23 [508]	Partially Preemptive Multi Skill/Mode Resource-Constrained Project Scheduling with Generalized Precedence Relations and Calendars	CP Opt MiniZinc Chuffed	github, benchmark, industrial instance, real-world, real-life	4	y		y		PP-MS- MMRCPSP/max-cal		11	560
SquillaciPR23 SquillaciPR23 [566]	Scheduling Complex Observation Requests for a Constellation of Satellites: Large Neighborhood Search Approaches	Cplex Studio	github, benchmark	2	y		n	-	EOSP	?	12	587
TardivoDFMP23 TardivoDFMP23 [577]	Constraint Propagation on GPU: A Case Study for the Cumulative Constraint	MiniCPP MiniZinc	benchmark, bitbucket, github, real-world	9	PSPLib BL Pack		y	-	RCPSP	cumulative	13	593
TasselGS23 TasselGS23 [578]	An End-to-End Reinforcement Learning Approach for Job-Shop Scheduling Problems Based on Constraint Programming	custom Choco	industrial instance, real-world, supplementary material, github, benchmark	0	ref		y	-	JSSP	noOverlap	14	594
WangB23 WangB23 [631]	Dynamic All-Different and Maximal Cliques Constraints for Fixed Job Scheduling	FaCiLe	random instance, real-world	0	(y)		n	[630]	FJS	-	15	623
YuraszeckMC23 YuraszeckMC23 [651]	A competitive constraint programming approach for the group shop scheduling problem	CP Opt	benchmark, github	0	ref		n	-	GSSP	noOverlap endBeforeStart	16	636

Table 4: Manually Defined PAPER Properties

Key	Title (Local Copy)	CP System	Bench	Links	Data Avail	Sol Avail	Code Avail	Related To	Classification	Constraints	a	b
ArmstrongGOS22 ArmstrongGOS22 [27]	A Two-Phase Hybrid Approach for the Hybrid Flexible Flowshop with Transportation Times	CP Opt	real-world, benchmark	0	(y)		-	[26]	$HFFm tt C_{\max}$	endBeforeStart alternative cumulative noOverlap	17	339
BoudreaultSLQ22 BoudreaultSLQ22 [118]	A Constraint Programming Approach to Ship Refit Project Scheduling	MiniZinc Chuffed	supplementary material, gitlab, benchmark, generated instance, real-life, industrial partner, github, real-world	9			y	-	RCPSP	cumulative	18	386
GeitzGSSW22 GeitzGSSW22 [240]	Solving the Extended Job Shop Scheduling Problem with AGVs - Classical and Quantum Approaches	firstCS QUBO	real-world, real-life, github	8	y		n	-	JSSP		19	439
HebrardALLCMR22 HebrardALLCMR22 [287]	An Efficient Approach to Data Transfer Scheduling for Long Range Space Exploration			0							20	459
JungblutK22 JungblutK22 [329]	Optimal Schedules for High-Level Programming Environments on FPGAs with Constraint Programming	MiniZinc	benchmark, github, real-world	0	y		y	-			21	478
LiFJZLL22 LiFJZLL22 [389]	Constraint Programming for a Novel Integrated Optimization of Blocking Job Shop Scheduling and Variable-Speed Transfer Robot Assignment	OPL CP Opt	benchmark	0	ref		n	-	BJSSP	endBeforeStart alternative noOverlap	22	509
LuoB22 LuoB22 [418]	Packing by Scheduling: Using Constraint Programming to Solve a Complex 2D Cutting Stock Problem	CPO	real-life, industry partner, real-world, generated instance, github, industrial instance	2	n		n	-	2SCSP-FF	pulse alwaysIn forbidExtent stateFunction	23	524
OuelletQ22 OuelletQ22 [488]	A MinCumulative Resource Constraint	Choco	github, benchmark, random instance	1	y		y	-		cumulative minCumulative	24	552
OujanaAYB22 OujanaAYB22 [489]	Solving a realistic hybrid and flexible flow shop scheduling problem through constraint programming: industrial case in a packaging company	CP Opt	industrial instance, real-world, benchmark, real-life	0	n		n	-	HFSS	alternative span noOverlap endBeforeStart	25	553
PopovicCGNC22 PopovicCGNC22 [506]	Scheduling the Equipment Maintenance of an Electric Power Transmission Network Using Constraint Programming	CP Opt		0	n		n	-	TMS	alwaysIn noOverlap	26	559
SvancaraB22 SvancaraB22 [571]	Tackling Train Routing via Multi-agent Pathfinding and Constraint-based Scheduling		benchmark, real-world	0							27	589
Teppan22 Teppan22 [581]	Types of Flexible Job Shop Scheduling: A Constraint Programming Experiment	OPL	benchmark, real-life	0	ref		n	-	FJSSP	noOverlap alternative endBeforeStart	28	595
TouatBT22 TouatBT22 [594]	A Constraint Programming Model for the Scheduling Problem with Flexible Maintenance under Human Resource Constraints	OPL	generated instance, benchmark	0	n		n	-	Single Machine Scheduling	alternative noOverlap forbidExtent	29	602
WinterMMW22 WinterMMW22 [637]	Modeling and Solving Parallel Machine Scheduling with Contamination Constraints in the Agricultural Industry	Cplex Gurobi CP Opt Sim Anneal	supplementary material, zenodo, industrial partner, benchmark, real-life, industry partner	0	y		y	-	PMSP	alternative noOverlap	30	626

Table 4: Manually Defined PAPER Properties

Key	Title (Local Copy)	CP System	Bench	Links	Data Avail	Sol Avail	Code Avail	Related To	Classification	Constraints	a	b
ZhangBB22 ZhangBB22 [660]	Solving Job-Shop Scheduling Problems with QUBO-Based Specialized Hardware		benchmark, generated instance	0							31	637
ZhangJZL22 ZhangJZL22 [659]	Constraint Programming for Modeling and Solving a Hybrid Flow Shop Scheduling Problem	OP Opt	benchmark	0	ref		n	-	HFSP	alternative endBeforeStart noOverlap cumulative	32	638
AntuoriHHEN21 AntuoriHHEN21 [22]	Combining Monte Carlo Tree Search and Depth First Search Methods for a Car Manufacturing Workshop Scheduling Problem	MCTS	gitlab, supplementary material	1	y		y				33	336
ArmstrongGOS21 ArmstrongGOS21 [26]	The Hybrid Flexible Flowshop with Transportation Times	MiniZinc Chuffed CP Opt SICStus	instance generator, industry partner, zenodo, supplementary material, real-world, industrial partner, benchmark	1	y		y	-	$HFFm tt C_{\max}$	cumulative diffn table	34	338
ArtiguesHQT21 ArtiguesHQT21 [32]	Multi-Mode RCPSP with Safety Margin Maximization: Models and Algorithms			4							35	342
Astrand0F21 Astrand0F21 [36]	Short-Term Scheduling of Production Fleets in Underground Mines Using CP-Based LNS	Gecode	benchmark, real-life, real-world, generated instance	0	ref generated		n	-		-	36	344
BenderWS21 BenderWS21 [84]	Applying Constraint Programming to the Multi-mode Scheduling Problem in Harvest Logistics	CP Opt		9	y		n	-	MRCPSP	noOverlap alternative	37	366
GeibingerKKMMW21 GeibingerKKMMW21 [236]	Physician Scheduling During a Pandemic	MiniZinc	real-world	3	y		n	-		nvalue	38	436
GeibingerMM21 GeibingerMM21 [239]	Constraint Logic Programming for Real-World Test Laboratory Scheduling	clingcon	github, real-world, benchmark, real-life, generated instance	0	y				TLSP RCPSP	disjunctive	39	438
HanenKP21 HanenKP21 [279]	Two Deadline Reduction Algorithms for Scheduling Dependent Tasks on Parallel Processors	Python	Roadef, generated instance, random instance	1	ref		n	-	$P prec, r_i, d_i *$	-	40	457
HillTV21 HillTV21 [304]	A Computational Study of Constraint Programming Approaches for Resource-Constrained Project Scheduling with Autonomous Learning Effects	CP Opt	real-world	0	PSPlib		n	-	RCPSP	cumulative alternative endBeforeStart	41	468
KlankeBYE21 KlankeBYE21 [348]	Combining Constraint Programming and Temporal Decomposition Approaches - Scheduling of an Industrial Formulation Plant	OR-Tools	random instance, benchmark, real-life	0	n		n	-		cumulative circuit noOverlap	42	489
KovacsTKSG21 KovacsTKSG21 [363]	Utilizing Constraint Optimization for Industrial Machine Workload Balancing	Gurobi OR-Tools Cplex CP Opt CP Opt Chuffed OR-Tools Gurobi OPL	github, supplementary material, real-world, benchmark	2	y		y	-	extended RCPSP	cumulative	43	495
LacknerMMWW21 LacknerMMWW21 [375]	Minimizing Cumulative Batch Processing Time for an Industrial Oven Scheduling Problem	CP Opt CP Opt Chuffed OR-Tools Gurobi OPL	benchmark, instance generator, real-life, random instance, industrial partner, supplementary material	3	y		y		OSP		44	504

Table 4: Manually Defined PAPER Properties

Key	Title (Local Copy)	CP System	Bench	Links	Data Avail	Sol Avail	Code Avail	Related To	Classification	Constraints	a	b
AntuoriHHEN20 AntuoriHHEN20 [21]	Leveraging Reinforcement Learning, Constraint Programming and Local Search: A Case Study in Car Manufacturing		random instance, generated instance, gitlab, benchmark, industrial instance	4							45	335
BarzegaranZP20 BarzegaranZP20 [61]	Quality-Of-Control-Aware Scheduling of Communication in TSN-Based Fog Computing Platforms Using Constraint Programming	OR-Tools		5	n		n	-	FCP		46	356
GodetLHS20 GodetLHS20 [249]	Using Approximation within Constraint Programming to Solve the Parallel Machine Scheduling Problem with Additional Unit Resources	MiniZinc Choco Chuffed	real-life, benchmark, generated instance, github	0	JSON		y	-	PMSPAUR	disjunctive cumulative alldifferent enqueueCstr approxCstr groupCumulative	47	445
GroleazNS20 GroleazNS20 [265]	Solving the Group Cumulative Scheduling Problem with CPO and ACO	CP Opt ACO	industrial instance, benchmark	0	-		-	[265]	GCSP		48	452
GroleazNS20a GroleazNS20a [264]	ACO with automatic parameter selection for a scheduling problem with a group cumulative constraint	CPO ACO	industrial partner, benchmark	0	y		n	-	GCSP	groupCumulative	49	453
Mercier-AubinGQ20 Mercier-AubinGQ20 [439]	Leveraging Constraint Scheduling: A Case Study to the Textile Industry	MiniZinc Chuffed	industrial instance, industrial partner	1	a		a	-		circuit cumulative	50	534
NattafM20 NattafM20 [469]	Filtering Rules for Flow Time Minimization in a Parallel Machine Scheduling Problem	Cplex CP Opt	benchmark, industrial instance	7	-		-	[425]	PTC	alternative noOverlap	51	545
TangB20 TangB20 [575]	CP and Hybrid Models for Two-Stage Batching and Scheduling	Cplex CP Opt	real-world	0	n		n	-	2BPHFSP	span alwaysIn	52	592
ThomasKS20 ThomasKS20 [588]	Insertion Sequence Variables for Hybrid Routing and Scheduling Problems		CSPLib, benchmark, generated instance, bit-bucket github	3							53	599
WangB20 WangB20 [630]	Global Propagation of Transition Cost for Fixed Job Scheduling	FaCiLe	github	0	y		n	-	FJS	-	54	622
WessenCS20 WessenCS20 [635]	Scheduling of Dual-Arm Multi-tool Assembly Robots and Workspace Layout Optimization	Gecode	real-world	10	n		n	-		circuit alldifferent	55	625
BadicaBIL19 BadicaBIL19 [40]	Exploring the Space of Block Structured Scheduling Processes Using Constraint Logic Programming	ECLiPSe	github	0	dead		dead	-			56	346
BehrensLM19 BehrensLM19 [76]	A Constraint Programming Approach to Simultaneous Task Allocation and Motion Scheduling for Industrial Dual-Arm Manipulation Tasks	OR-Tools	github, real-world	0	y		y	-	STAAMS		57	362
BogaerdtW19 BogaerdtW19 [609]	Lower Bounds for Uniform Machine Scheduling Using Decision Diagrams	custom Cplex CPO CP Opt	benchmark	4	n		n	-	Multi Machine Scheduling	noOverlap	58	377
ColT19 ColT19 [157]	Industrial Size Job Shop Scheduling Tackled by Present Day CP Solvers	OR-Tools	github, benchmark, real-world	2	y		y	-	JSSP	noOverlap	59	404
FrimodigS19 FrimodigS19 [223]	Models for Radiation Therapy Patient Scheduling	Mini-Zinc Gecode Cplex	benchmark, real-world	1	n		n	-		cumulative regular bin-packing	60	427
FrohnerTR19 FrohnerTR19 [225]	Casual Employee Scheduling with Constraint Programming and Metaheuristics		benchmark, real-world	0							61	428

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GalleguillosKSB19 GalleguillosKSB19 [227]	Constraint Programming-Based Job Dispatching for Modern HPC Applications	OR-Tools		5			y		on-line dispatch		62	430
GeibingerMM19 GeibingerMM19 [238]	Investigating Constraint Programming for Real World Industrial Test Laboratory Scheduling		real-world, benchmark, real-life, generated instance, industrial partner	3							63	437
KucukY19 KucukY19 [370]	A Constraint Programming Approach for Agile Earth Observation Satellite Scheduling Problem		benchmark, generated instance	0							64	500
LiuLH19 LiuLH19 [397]	Solving the Talent Scheduling Problem by Parallel Constraint Programming		benchmark, CSPLib	0							65	517
MalapertN19 MalapertN19 [425]	A New CP-Approach for a Parallel Machine Scheduling Problem with Time Constraints on Machine Qualifications	CP Opt Cplex OPL	benchmark, generated instance, industrial instance, Roadef	3							66	530
MurinR19 MurinR19 [454]	Scheduling of Mobile Robots Using Constraint Programming		github, benchmark, real-life	3	y		y		JSPT	endBeforeStart alternative noOverlap	67	541
ParkUJR19 ParkUJR19 [495]	Developing a Production Scheduling System for Modular Factory Using Constraint Programming		real-world	0							68	554
Tom19 Tom19 [591]	Fuzzy Multi-Constraint Programming Model for Weekly Meals Scheduling		real-world	0							69	601
YangSS19 YangSS19 [646]	Time Table Edge Finding with Energy Variables	CPO Gurobi	generated instance	1							70	634
AntunesABD18 AntunesABD18 [19]	Assigning and Scheduling Service Visits in a Mixed Urban/Rural Setting		real-world, industry partner, industrial partner benchmark	0							71	334
ArbaouiY18 ArbaouiY18 [24]	Solving the Unrelated Parallel Machine Scheduling Problem with Additional Resources Using Constraint Programming			0							72	337
AstrandJZ18 AstrandJZ18 [37]	Fleet Scheduling in Underground Mines Using Constraint Programming			0							73	345
BenediktSMVH18 BenediktSMVH18 [87]	Energy-Aware Production Scheduling with Power-Saving Modes	Gurobi	github, random instance, generated instance	1	y		y	-	Energy Aware Production Scheduling		74	367
CappartTSR18 CappartTSR18 [131]	A Constraint Programming Approach for Solving Patient Transportation Problems		bitbucket, real-life, CSPLib	1							75	391
DemirovicS18 DemirovicS18 [178]	Constraint Programming for High School Timetabling: A Scheduling-Based Model with Hot Starts		benchmark, real-world	5							76	411
He0GLW18 He0GLW18 [286]	A Fast and Scalable Algorithm for Scheduling Large Numbers of Devices Under Real-Time Pricing		real-world, bitbucket	8	y		y	-	FSDN-DS DSP-MH-RTP		77	458
HoYCLLC18 HoYCLLC18 [305]	A Platform for Dynamic Optimal Nurse Scheduling Based on Integer Linear Programming along with Multiple Criteria Constraints	Gurobi	real-world	0							78	469
KameugneFGOQ18 KameugneF-GOQ18 [337]	Horizontally Elastic Not-First/Not-Last Filtering Algorithm for Cumulative Resource Constraint		real-world, benchmark	0							79	482

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Laborie18a Laborie18a [373]	An Update on the Comparison of MIP, CP and Hybrid Approaches for Mixed Resource Allocation and Scheduling		real-world, real-life, benchmark	0							80	503
MusliuSS18 MusliuSS18 [457]	Solver Independent Rotating Workforce Scheduling		generated instance, benchmark, real-life	2							81	544
NishikawaSTT18 NishikawaSTT18 [472]	Scheduling of Malleable Fork-Join Tasks with Constraint Programming		real-world, benchmark	0							82	546
NishikawaSTT18a NishikawaSTT18a [473]	Scheduling of Malleable Tasks Based on Constraint Programming		benchmark, real-life, real-world	0							83	547
OuelletQ18 OuelletQ18 [487]	A $O(n \log^2 n)$ Checker and $O(n^2 \log n)$ Filtering Algorithm for the Energetic Reasoning		benchmark, RoaDef	0							84	551
RiahiNS018 RiahiNS018 [519]	Local Search for Flowshops with Setup Times and Blocking Constraints		real-world, real-life, benchmark	0							85	567
TanT18 TanT18 [574]	Logic-Based Benders Decomposition for Two-Stage Flexible Flow Shop Scheduling with Unrelated Parallel Machines		benchmark	0							86	591
Tesch18 Tesch18 [585]	Improving Energetic Propagations for Cumulative Scheduling		RoaDef	0							87	597
BofillCSV17 BofillCSV17 [103]	An Efficient SMT Approach to Solve MRCPSP/max Instances with Tight Constraints on Resources		benchmark	2							88	374
CappartS17 CappartS17 [130]	Rescheduling Railway Traffic on Real Time Situations Using Time-Interval Variables	CPO	bitbucket, real-life, random instance	1	y		n	-	Rescheduling Railway Traffic		89	390
CohenHB17 CohenHB17 [155]	(I Can Get) Satisfaction: Preference-Based Scheduling for Concert-Goers at Multi-venue Music Festivals			12							90	403
GelainPRVW17 GelainPRVW17 [241]	A Local Search Approach for Incomplete Soft Constraint Problems: Experimental Results on Meeting Scheduling Problems		real-life, CSPLib, benchmark	2							91	440
GoldwaserS17 GoldwaserS17 [252]	Optimal Torpedo Scheduling	Chuffed Gurobi	github, generated instance, instance generator	4	y		n	-	Torpedo Scheduling		92	446
Hooker17 Hooker17 [313]	Job Sequencing Bounds from Decision Diagrams		benchmark, random instance	0							93	473
KletzanderM17 KletzanderM17 [349]	A Multi-stage Simulated Annealing Algorithm for the Torpedo Scheduling Problem			2							94	490
LiuCGM17 LiuCGM17 [398]	NightSplitter: A Scheduling Tool to Optimize (Sub)group Activities	Chuffed OR-Tools HCSP SA	github	11	n			-	NightSplit		95	515
Madi-WambaLOBM17 Madi-WambaLOBM17 [420]	Green Energy Aware Scheduling Problem in Virtualized Datacenters		real-world	0							96	527
MossigeGSMC17 MossigeGSMC17 [450]	Time-Aware Test Case Execution Scheduling for Cyber-Physical Systems		real-world, benchmark, random instance, CSPLib, generated instance, industrial partner benchmark	4							97	538
Pralet17 Pralet17 [509]	An Incomplete Constraint-Based System for Scheduling with Renewable Resources		benchmark	1							98	561

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TranVNB17a TranVNB17a [602]	Robots in Retirement Homes: Applying Off-the-Shelf Planning and Scheduling to a Team of Assistive Robots (Extended Abstract)		real-world	0							99	607
YoungFS17 YoungFS17 [648]	Constraint Programming Applied to the Multi-Skill Project Scheduling Problem		benchmark, github, instance generator	6							100	635
AmadiniGM16 AmadiniGM16 [17]	Parallelizing Constraint Solvers for Hard RCPSP Instances		benchmark, real-life, github	3							101	332
BonfiettiZLM16 BonfiettiZLM16 [113]	The Multirate Resource Constraint		generated instance, github, industrial instance, benchmark, real-world	1							102	383
BoothNB16 BoothNB16 [115]	A Constraint Programming Approach to Multi-Robot Task Allocation and Scheduling in Retirement Homes		real-world	0							103	385
BridiLBBM16 BridiLBBM16 [122]	DARDIS: Distributed And Randomized DIspatching and Scheduling			0							104	387
CatusseCBL16 CatusseCBL16 [140]	A Branch-and-Price Algorithm for Scheduling Observations on a Telescope			0							105	394
CauwelaertDMS16 CauwelaertDMS16 [141]	Efficient Filtering for the Unary Resource with Family-Based Transition Times		real-life, bit-bucket, benchmark	2							106	395
FontaineMH16 FontaineMH16 [217]	Parallel Composition of Scheduling Solvers		benchmark	2							107	424
GilesH16 GilesH16 [245]	Solving a Supply-Delivery Scheduling Problem with Constraint Programming			0							108	442
GingrasQ16 GingrasQ16 [246]	Generalizing the Edge-Finder Rule for the Cumulative Constraint		benchmark	0							109	443
HechingH16 HechingH16 [290]	Scheduling Home Hospice Care with Logic-Based Benders Decomposition		real-world	0							110	461
JelinekB16 JelinekB16 [327]	Using Constraint Logic Programming to Schedule Solar Array Operations on the International Space Station		real-life	2							111	477
LimHTB16 LimHTB16 [392]	Online HVAC-Aware Occupancy Scheduling with Adaptive Temperature Control		real-world	4							112	511
LuoVLBM16 LuoVLBM16 [417]	Using Metric Temporal Logic to Specify Scheduling Problems			0							113	525
Madi-WambaB16 Madi-WambaB16 [419]	The TaskIntersection Constraint		real-world, benchmark, random instance, generated instance	3							114	526
SchuttS16 SchuttS16 [545]	Explaining Producer/Consumer Constraints		benchmark	1							115	576
SzerediS16 SzerediS16 [572]	Modelling and Solving Multi-mode Resource-Constrained Project Scheduling		benchmark	2							116	590
Tesch16 Tesch16 [584]	A Nearly Exact Propagation Algorithm for Energetic Reasoning in $O(n^2 \log n)$		Roadef	1							117	596
TranDRFWOVB16 TranDRFWOVB16 [598]	A Hybrid Quantum-Classical Approach to Solving Scheduling Problems			0							118	605
TranWDRFOVB16 TranWDRFOVB16 [603]	Explorations of Quantum-Classical Approaches to Scheduling a Mars Lander Activity Problem		benchmark	0							119	608

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BartakV15 BartakV15 [59]	Reactive Recovery from Machine Breakdown in Production Scheduling with Temporal Distance and Resource Constraints		real-world, real-life	0							120	354
BofillGSV15 BofillGSV15 [105]	MaxSAT-Based Scheduling of B2B Meetings		industrial instance	3							121	376
BurtLPS15 BurtLPS15 [125]	Scheduling with Fixed Maintenance, Shared Resources and Nonlinear Feedrate Constraints: A Mine Planning Case Study		industry partner, real-world, benchmark	5							122	389
DejemeppeCS15 DejemeppeCS15 [174]	The Unary Resource with Transition Times		bitbucket, real-world, generated instance, benchmark	4							123	409
EvenSH15 EvenSH15 [204]	A Constraint Programming Approach for Non-preemptive Evacuation Scheduling		real-life, real-world	0							124	422
GayHLS15 GayHLS15 [231]	Conflict Ordering Search for Scheduling Problems		bitbucket, benchmark	0							125	432
GayHS15 GayHS15 [232]	Simple and Scalable Time-Table Filtering for the Cumulative Constraint		bitbucket	2							126	433
GayHS15a GayHS15a [233]	Time-Table Disjunctive Reasoning for the Cumulative Constraint		benchmark, real-world, bitbucket	0							127	434
KreterSS15 KreterSS15 [364]	Modeling and Solving Project Scheduling with Calendars		benchmark	3							128	498
LimBTBB15 LimBTBB15 [393]	Large Neighborhood Search for Energy Aware Meeting Scheduling in Smart Buildings		benchmark	3							129	510
LombardiBM15 LombardiBM15 [401]	Deterministic Estimation of the Expected Makespan of a POS Under Duration Uncertainty		benchmark, real-world	0							130	518
MelgarejoLS15 MelgarejoLS15 [11]	A Time-Dependent No-Overlap Constraint: Application to Urban Delivery Problems		real-world, benchmark	1							131	533
MurphyMB15 MurphyMB15 [455]	Design and Evaluation of a Constraint-Based Energy Saving and Scheduling Recommender System		real-world	3							132	542
PesantRR15 PesantRR15 [500]	A Comparative Study of MIP and CP Formulations for the B2B Scheduling Optimization Problem			1							133	557
PraletLJ15 PraletLJ15 [510]	Scheduling Running Modes of Satellite Instruments Using Constraint-Based Local Search			0							134	562
SialaAH15 SialaAH15 [555]	Two Clause Learning Approaches for Disjunctive Scheduling		github, benchmark	5							135	580
VilimLS15 VilimLS15 [623]	Failure-Directed Search for Constraint-Based Scheduling		benchmark	8							136	620
ZhouGL15 ZhouGL15 [666]	On complex hybrid flexible flowshop scheduling problems based on constraint programming		real-world	0							137	641
AlesioNBG14 AlesioNBG14 [182]	Worst-Case Scheduling of Software Tasks - A Constraint Optimization Model to Support Performance Testing		benchmark	2							138	331
BartoliniBBLM14 BartoliniBBLM14 [60]	Proactive Workload Dispatching on the EURORA Supercomputer			4							139	355
BessiereHMQW14 BessiereHMQW14 [93]	Buffered Resource Constraint: Algorithms and Complexity		benchmark, real-life	0							140	371
BofillEGPSV14 BofillEGPSV14 [104]	Scheduling B2B Meetings		industrial instance	6							141	375
BonfiettiLM14 BonfiettiLM14 [111]	Disregarding Duration Uncertainty in Partial Order Schedules? Yes, We Can!		benchmark, real-world	2							142	381

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DejemeppeD14 DejemeppeD14 [175]	Continuously Degrading Resource and Interval Dependent Activity Durations in Nuclear Medicine Patient Scheduling		bitbucket	0							143	410
DerrienP14 DerrienP14 [180]	A New Characterization of Relevant Intervals for Energetic Reasoning		random instance	0							144	412
DerrienPZ14 DerrienPZ14 [181]	A Declarative Paradigm for Robust Cumulative Scheduling		real-world, benchmark, random instance	0							145	413
DoulabiRP14 DoulabiRP14 [190]	A Constraint Programming-Based Column Generation Approach for Operating Room Planning and Scheduling			0							146	416
FriedrichFMRSS14 FriedrichFMRSS14 [222]	Representing Production Scheduling with Constraint Answer Set Programming			0							147	No
GaySS14 GaySS14 [234]	Continuous Casting Scheduling with Constraint Programming		real-life, CSPlib	0							148	435
HoundjiSWD14 HoundjiSWD14 [319]	The StockingCost Constraint		bitbucket, generated instance	0							149	475
KoschB14 KoschB14 [355]	A New MIP Model for Parallel-Batch Scheduling with Non-identical Job Sizes		benchmark	0							150	492
LipovetzkyBPS14 LipovetzkyBPS14 [396]	Planning for Mining Operations with Time and Resource Constraints		real-life, real-world, industrial partner, industry partner, benchmark, generated instance	0							151	514
LouieVNB14 LouieVNB14 [414]	An autonomous assistive robot for planning, scheduling and facilitating multi-user activities			0							152	523
BonfiettiLM13 BonfiettiLM13 [110]	De-Cycling Cyclic Scheduling Problems			0							153	380
ChuGNSW13 ChuGNSW13 [148]	On the Complexity of Global Scheduling Constraints under Structural Restrictions			0							154	398
CireCH13 CireCH13 [150]	Mixed Integer Programming vs. Logic-Based Benders Decomposition for Planning and Scheduling	CP Opt Cplex		1	dead		n	-			155	400
GuSS13 GuSS13 [267]	A Lagrangian Relaxation Based Forward-Backward Improvement Heuristic for Maximising the Net Present Value of Resource-Constrained Projects	Chuffed	benchmark	1	dead			-	RCPSPDC	cumulative maxNVPPProp	156	455
HeinzKB13 HeinzKB13 [293]	Recent Improvements Using Constraint Integer Programming for Resource Allocation and Scheduling			0							157	463
KelarevaTK13 KelarevaTK13 [342]	CP Methods for Scheduling and Routing with Time-Dependent Task Costs	MiniZinc CPX G12FD SICStus Choco	real-world	5	ref		-	-	LSFRP BPCTOP	alldifferent alldifferentExceptt	158	485
LetortCB13 LetortCB13 [386]	A Synchronized Sweep Algorithm for the k -dimensional cumulative Constraint		Roadef, benchmark, random instance	2	PSPlib		-	-	RCPSP	cumulative kDimensionalCum	159	508
LombardiM13 LombardiM13 [408]	A Min-Flow Algorithm for Minimal Critical Set Detection in Resource Constrained Project Scheduling			0							160	522
MalapertCGJLR13 MalapertCGJLR13 [424]	An Optimal Constraint Programming Approach to the Open-Shop Problem		benchmark, real-life	0							161	529
OuelletQ13 OuelletQ13 [486]	Time-Table Extended-Edge-Finding for the Cumulative Constraint		benchmark	1							162	550

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SchuttFS13 SchuttFS13 [539]	Scheduling Optional Tasks with Explanation		benchmark	1							163	573
SchuttFS13a SchuttFS13a [538]	Explaining Time-Table-Edge-Finding Propagation for the Cumulative Resource Constraint	Mercury G12	benchmark	5	PSPlib AT BL Pack KSD15D PackD		-	-	RCPSP	cumulative	164	574
TranTDB13 TranTDB13 [600]	Hybrid Queueing Theory and Scheduling Models for Dynamic Environments with Sequence-Dependent Setup Times		real-world	0							165	606
BillautHL12 BillautHL12 [95]	Complete Characterization of Near-Optimal Sequences for the Two-Machine Flow Shop Scheduling Problem		random instance	0							166	372
BonfiettiLBM12 BonfiettiLBM12 [108]	Global Cyclic Cumulative Constraint		benchmark	3							167	379
BonfiettiM12 BonfiettiM12 [112]	A Constraint-based Approach to Cyclic Resource-Constrained Scheduling Problem		industrial instance	0							168	382
GuSW12 GuSW12 [269]	Maximising the Net Present Value of Large Resource-Constrained Projects		benchmark	2							169	456
HeinzB12 HeinzB12 [292]	Reconsidering Mixed Integer Programming and MIP-Based Hybrids for Scheduling			0							170	462
IfrimOS12 IfrimOS12 [322]	Properties of Energy-Price Forecasts for Scheduling		real-life	1							171	476
LetortBC12 LetortBC12 [385]	A Scalable Sweep Algorithm for the cumulative Constraint		Roadef, benchmark, random instance	2							172	507
RendlPHPR12 RendlPHPR12 [518]	Hybrid Heuristics for Multimodal Homecare Scheduling		real-world, CSPlib, benchmark	2							173	566
SchuttCSW12 SchuttCSW12 [537]	Maximising the Net Present Value for Resource-Constrained Project Scheduling		benchmark	1							174	572
SerraNM12 SerraNM12 [548]	The Offshore Resources Scheduling Problem: Detailing a Constraint Programming Approach		real-world, benchmark	4							175	579
SimoninAHL12 SimoninAHL12 [556]	Scheduling Scientific Experiments on the Rosetta/Philae Mission	MOST Ilog Scheduler		0	n		n	-		cumulative dataTransfer	176	581
TranB12 TranB12 [597]	Logic-based Benders Decomposition for Alternative Resource Scheduling with Sequence Dependent Setups		benchmark	0							177	604
ZhangLS12 ZhangLS12 [663]	Model and Solution for Hot Strip Rolling Scheduling Problem Based on Constraint Programming Method			0							178	639
BajestaniB11 BajestaniB11 [41]	Scheduling an Aircraft Repair Shop			0							179	347
BonfiettiLBM11 BonfiettiLBM11 [107]	A Constraint Based Approach to Cyclic RCPSP		benchmark, generated instance, industrial instance	3							180	378
ChapadosJR11 ChapadosJR11 [146]	Retail Store Workforce Scheduling by Expected Operating Income Maximization			0							181	397
ClercqPBJ11 ClercqPBJ11 [152]	Filtering Algorithms for Discrete Cumulative Problems with Overloads of Resource		benchmark	1							182	401
EdisO11 EdisO11 [192]	Parallel Machine Scheduling with Additional Resources: A Lagrangian-Based Constraint Programming Approach			0							183	417

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GrimesH11	Models and Strategies for Variants of the Job Shop Scheduling Problem		benchmark	1							184	450
HeinzS11 [259]	Explanations for the Cumulative Constraint: An Experimental Study		benchmark	1							185	464
HermenierDL11	Bin Repacking Scheduling in Virtualized Datacenters			1							186	467
KameugneFSN11	A Quadratic Edge-Finding Filtering Algorithm for Cumulative Resource Constraints		benchmark	1							187	484
KameugneFSN11 [339]	Climbing Depth-Bounded Adjacent Discrepancy Search for Solving Hybrid Flow Shop Scheduling Problems with Multiprocessor Tasks		benchmark	2							188	505
LahimerLH11	Precedence Constraint Posting for Cyclic Scheduling Problems		benchmark, industrial instance, real-life	0							189	519
LahimerLH11 [377]												
LombardiBMB11	A Resource Cost Aware Cumulative		real-life, real-world	1							190	586
SimonisH11	Timetable Edge Finding Filtering Algorithm for Discrete Cumulative Resources		benchmark	1							191	618
SimonisH11 [564]												
Vilim11 Vilim11 [620]	Constraint-Based Modeling and Scheduling of Clinical Pathways			4							192	630
Wolf11 Wolf11 [640]	Conflict-Aware Optimal Scheduling of Code Clone Refactoring: A Constraint Programming Approach			0							193	643
ZibranR11	A Constraint Programming Approach to Conflict-Aware Optimal Scheduling of Prioritized Code Clone Refactoring			0							194	644
ZibranR11 [669]												
ZibranR11a	A Constraint Integer Programming Approach for Resource-Constrained Project Scheduling			1							195	370
ZibranR11a [670]	Single-Facility Scheduling over Long Time Horizons by Logic-Based Benders Decomposition			0							196	402
BertholdHLS10	Integrated Maintenance Scheduling for Semiconductor Manufacturing			0							197	407
BertholdHLS10 [92]	Job Shop Scheduling with Setup Times and Maximal Time-Lags: A Simple Constraint Programming Approach		benchmark	1							198	449
CobanH10	Constraint Based Scheduling to Deal with Uncertain Durations and Self-Timed Execution		real-world, benchmark	1							199	521
CobanH10 [153]	A constraint programming approach for production scheduling of multi-period virtual cellular manufacturing systems			0							200	528
Davenport10	A New $O(n^2 \log n)$ Not-First/Not-Last Pruning Algorithm for Cumulative Resource Constraints		benchmark	1							201	577
Davenport10 [165]	Scheduling Optimization Techniques for FlexRay Using Constraint-Programming			0							202	588
GrimesH10	Constraint Programming and Mixed Integer Linear Programming for Rescheduling Trains under Disrupted Operations		Roadef	1							203	329
GrimesH10 [258]												
LombardiM10	MILP formulations of cumulative constraints for railway scheduling - A comparative study		real-world, real-life	0							204	340
LombardiM10 [405]	Constraint-Based Schedulers, Do They Really Work?			0							205	348
MakMS10	Closing the Open Shop: Contradicting Conventional Wisdom		benchmark	0							206	451
MakMS10 [421]	IBM ILOG CP Optimizer for Detailed Scheduling Illustrated on Three Problems		real-world, benchmark	2							207	502
SchuttW10												
SchuttW10 [546]												
SunLYL10												
SunLYL10 [569]												
Acuna-AgostMFG09												
Acuna-AgostMFG09 [5]												
AronssonBK09												
AronssonBK09 [29]												
Baptiste09												
Baptiste09 [45]												
GrimesHM09												
GrimesHM09 [261]												
Laborie09												
Laborie09 [372]												

Table 4: Manually Defined PAPER Properties

Key	Title (Local Copy)	CP System	Bench	Links	Data Avail	Sol Avail	Code Avail	Related To	Classification	Constraints	a	b
LombardiM09 LombardiM09 [403]	A Precedence Constraint Posting Approach for the RCPSP with Time Lags and Variable Durations		instance generator, real-world	1							208	520
MonetteDH09 MonetteDH09 [447]	Just-In-Time Scheduling with Constraint Programming		benchmark	0							209	537
SchuttFSW09 SchuttFSW09 [540]	Why Cumulative Decomposition Is Not as Bad as It Sounds		real-world, benchmark	1							210	575
ThiruvadyBME09 ThiruvadyBME09 [586]	Hybridizing Beam-ACO with Constraint Programming for Single Machine Job Scheduling			0							211	598
Vilim09 Vilim09 [618]	Edge Finding Filtering Algorithm for Discrete Cumulative Resources in $O(kn \log n)$			0							212	616
Vilim09a Vilim09a [619]	Max Energy Filtering Algorithm for Discrete Cumulative Resources			1							213	617
Wolf09 Wolf09 [642]	Linear Weighted-Task-Sum – Scheduling Prioritized Tasks on a Single Resource		real-life	1							214	629
BarlattCG08 BarlattCG08 [52]	A Hybrid Approach for Solving Shift-Selection and Task-Sequencing Problems		real-world	1							215	351
BeldiceanuCP08 BeldiceanuCP08 [81]	New Filtering for the cumulative Constraint in the Context of Non-Overlapping Rectangles		benchmark	0							216	364
BeniniLMR08 BeniniLMR08 [89]	A Constraint Programming Approach for Allocation and Scheduling on the CELL Broadband Engine		benchmark	1							217	369
DoomsH08 DoomsH08 [187]	Gap Reduction Techniques for Online Stochastic Project Scheduling			0							218	415
HentenryckM08 HentenryckM08 [301]	The Steel Mill Slab Design Problem Revisited		CSPLib	0							219	466
LauLN08 LauLN08 [380]	A Combinatorial Auction Framework for Solving Decentralized Scheduling Problems (Extended Abstract)		real-world, benchmark	0							220	506
MouraSCL08 MouraSCL08 [452]	Planning and Scheduling the Operation of a Very Large Oil Pipeline Network			0							221	539
MouraSCL08a MouraSCL08a [451]	Heuristics and Constraint Programming Hybridizations for a Real Pipeline Planning and Scheduling Problem		real-world, benchmark	0							222	540
PoderB08 PoderB08 [502]	Filtering for a Continuous Multi-Resources cumulative Constraint with Resource Consumption and Production			0							223	558
SchausD08 SchausD08 [532]	A Global Constraint for Bin-Packing with Precedences: Application to the Assembly Line Balancing Problem		real-life, benchmark	0							224	571
WatsonB08 WatsonB08 [634]	A Hybrid Constraint Programming / Local Search Approach to the Job-Shop Scheduling Problem		real-world, benchmark	1							225	624
AkkerDH07 AkkerDH07 [608]	A Column Generation Based Destructive Lower Bound for Resource Constrained Project Scheduling Problems			0							226	330
BeldiceanuP07 BeldiceanuP07 [82]	A Continuous Multi-resources <i>cumulative</i> Constraint with Positive-Negative Resource Consumption-Production			0							227	365
DavenportKRSH07 DavenportKRSH07 [166]	An Application of Constraint Programming to Generating Detailed Operations Schedules for Steel Manufacturing			0							228	408
GarganiR07 GarganiR07 [228]	An Efficient Model and Strategy for the Steel Mill Slab Design Problem		real-life, CSPLib	0							229	431

Table 4: Manually Defined PAPER Properties

Key	Title (Local Copy)	CP System	Bench	Links	Data Avail	Sol Avail	Code Avail	Related To	Classification	Constraints	a	b
HoeveGSL07	Optimal Multi-Agent Scheduling with Constraint Programming		benchmark	0							230	470
HoeveGSL07 [611]				2							231	486
KeriK07 KeriK07 [344]	Computing Tight Time Windows for RCPSPWET with the Primal-Dual Method											
KovacsB07	A Global Constraint for Total Weighted Completion Time		benchmark	0							232	493
KovacsB07 [356]												
KrogtLPHJ07	Scheduling for Cellular Manufacturing		real-world	0							233	499
KrogtLPHJ07 [610]												
Limtanyakul07	Scheduling of Tests on Vehicle Prototypes Using Constraint and Integer Programming		real-life	0							234	513
Limtanyakul07 [394]												
MonetteDD07	A Position-Based Propagator for the Open-Shop Problem		benchmark	0							235	536
MonetteDD07 [446]												
RossiTHP07	Replenishment Planning for Stochastic Inventory Systems with Shortage Cost			0							236	569
RossiTHP07 [526]												
Beck06 Beck06 [63]	An Empirical Study of Multi-Point Constructive Search for Constraint-Based Scheduling		benchmark	0							237	357
BeniniBGM06	Allocation, Scheduling and Voltage Scaling on Energy Aware MPSoCs		real-life	0							238	368
BeniniBGM06 [88]												
GomesHS06	Constraint Programming for Distributed Planning and Scheduling		real-life	0							239	448
GomesHS06 [256]												
KhemmoudjPB06	When Constraint Programming and Local Search Solve the Scheduling Problem of Electricité de France Nuclear Power Plant Outages		real-world	0							240	487
KhemmoudjPB06 [346]												
KovacsV06	Progressive Solutions: A Simple but Efficient Dominance Rule for Practical RCPSP		industrial partner, benchmark, generated instance	0							241	497
KovacsV06 [362]												
LiuJ06 LiuJ06 [399]	LP-TPOP: Integrating Planning and Scheduling Through Constraint Programming			0							242	516
QuSN06 QuSN06 [515]	Using Constraint Programming to Achieve Optimal Prefetch Scheduling for Dependent Tasks on Run-Time Reconfigurable Devices			0							243	564
Wallace06	Hybrid Algorithms in Constraint Programming		benchmark, real-world, Roadef	0							244	621
Wallace06 [628]												
AbrilSB05 AbrilSB05 [4]	Distributed Constraints for Large-Scale Scheduling Problems			0							245	328
ArtiouchineB05	Inter-distance Constraint: An Extension of the All-Different Constraint for Scheduling Equal Length Jobs		generated instance, random instance	0							246	343
ArtiouchineB05 [34]												
BeckW05 BeckW05 [72]	Proactive Algorithms for Scheduling with Probabilistic Durations			0							247	361
CarchraeBF05	Methods to Learn Abstract Scheduling Models			0							248	392
CarchraeBF05 [133]												
ChuX05 ChuX05 [149]	A Hybrid Algorithm for a Class of Resource Constrained Scheduling Problems			0							249	399
DilkinaDH05	Extending Systematic Local Search for Job Shop Scheduling Problems			0							250	414
DilkinaDH05 [183]												
FortinZDF05	Interval Analysis in Scheduling			0							251	425
FortinZDF05 [219]												
FrankK05	Mixed Discrete and Continuous Algorithms for Scheduling Airborne Astronomy Observations		benchmark	0							252	426
FrankK05 [221]												
Geske05 Geske05 [243]	Railway Scheduling with Declarative Constraint Programming		real-life	0							253	441

Table 4: Manually Defined PAPER Properties

Key	Title (Local Copy)	CP System	Bench	Links	Data Avail	Sol Avail	Code Avail	Related To	Classification	Constraints	a	b
GodardLN05 GodardLN05 [247]	Randomized Large Neighborhood Search for Cumulative Scheduling		benchmark	0							254	444
HebrardTW05 HebrardTW05 [289]	Computing Super-Schedules			0							255	460
Hooker05a Hooker05a [309]	Planning and Scheduling to Minimize Tardiness			0							256	472
KovacsEKV05 KovacsEKV05 [359]	Proterv-II: An Integrated Production Planning and Scheduling System		real-life	0							257	494
MoffittPP05 MoffittPP05 [444]	Augmenting Disjunctive Temporal Problems with Finite-Domain Constraints			0							258	535
QuirogaZH05 QuirogaZH05 [516]	A Constraint Programming Approach to Tool Allocation and Resource Scheduling in FMS			0							259	565
SchuttWS05 SchuttWS05 [547]	Not-First and Not-Last Detection for Cumulative Scheduling in $O(n^3 \log n)$		benchmark	0							260	578
Vilim05 Vilim05 [617]	Computing Explanations for the Unary Resource Constraint		benchmark	4							261	615
Wolf05 Wolf05 [639]	Better Propagation for Non-preemptive Single-Resource Constraint Problems		benchmark	0							262	628
WolfS05 WolfS05 [641]	$O(n \log n)$ Overload Checking for the Cumulative Constraint and Its Application		real-world	0							263	631
WuBB05 WuBB05 [644]	Scheduling with Uncertain Start Dates		benchmark	0							264	633
ArtiguesBF04 ArtiguesBF04 [30]	A New Exact Solution Algorithm for the Job Shop Problem with Sequence-Dependent Setup Times		benchmark	0							265	341
BeckW04 BeckW04 [71]	Job Shop Scheduling with Probabilistic Durations			0							266	360
HentenryckM04 HentenryckM04 [300]	Scheduling Abstractions for Local Search		benchmark	0							267	465
Hooker04 Hooker04 [307]	A Hybrid Method for Planning and Scheduling		random instance	0							268	471
KovacsV04 KovacsV04 [361]	Completable Partial Solutions in Constraint Programming and Constraint-Based Scheduling		industrial partner, benchmark, real-life	0							269	496
LimRX04 LimRX04 [391]	Solving the Crane Scheduling Problem Using Intelligent Search Schemes		generated instance	0							270	512
MaraveliasG04 MaraveliasG04 [428]	Using MILP and CP for the Scheduling of Batch Chemical Processes			0							271	531
Sadykov04 Sadykov04 [529]	A Hybrid Branch-And-Cut Algorithm for the One-Machine Scheduling Problem			0							272	570
Vilim04 Vilim04 [616]	$O(n \log n)$ Filtering Algorithms for Unary Resource Constraint		benchmark	1							273	614
VilimBC04 VilimBC04 [621]	Unary Resource Constraint with Optional Activities		benchmark, real-life	0							274	619
VillaverdeP04 VillaverdeP04 [624]	An Investigation of Scheduling in Distributed Constraint Logic Programming			0							275	No
WolinskiKG04 WolinskiKG04 [643]	A Constraints Programming Approach to Communication Scheduling on SoPC Architectures			0							276	632
BeckPS03 BeckPS03 [69]	Vehicle Routing and Job Shop Scheduling: What's the Difference?		benchmark, real-world	0							277	359
DannaP03 DannaP03 [163]	Structured vs. Unstructured Large Neighborhood Search: A Case Study on Job-Shop Scheduling Problems with Earliness and Tardiness Costs		benchmark	0							278	406

Table 4: Manually Defined PAPER Properties

Key	Title (Local Copy)	CP System	Bench	Links	Data Avail	Sol Avail	Code Avail	Related To	Classification	Constraints	a	b
Kumar03 Kumar03 [369]	Incremental Computation of Resource-Envelopes in Producer-Consumer Models			0							279	501
OddiPCC03 OddiPCC03 [484]	Generating High Quality Schedules for a Spacecraft Memory Downlink Problem		benchmark	0							280	549
ValleMGT03 ValleMGT03 [607]	On Selecting and Scheduling Assembly Plans Using Constraint Programming		real-life	0							281	609
Vilim03 Vilim03 [615]	Computing Explanations for Global Scheduling Constraints			0							282	613
Wolf03 Wolf03 [638]	Pruning while Sweeping over Task Intervals		benchmark	0							283	627
Bartak02 Bartak02 [54]	Visopt ShopFloor: On the Edge of Planning and Scheduling		real-life	0							284	352
Bartak02a Bartak02a [53]	Visopt ShopFloor: Going Beyond Traditional Scheduling		benchmark, real-life	0							285	353
BeldiceanuC02 BeldiceanuC02 [79]	A New Multi-resource cumulatives Constraint with Negative Heights		real-life, random instance, benchmark	0							286	363
ElkhyariGJ02 ElkhyariGJ02 [198]	Conflict-Based Repair Techniques for Solving Dynamic Scheduling Problems			0							287	419
ElkhyariGJ02a ElkhyariGJ02a [199]	Solving Dynamic Resource Constraint Project Scheduling Problems Using New Constraint Programming Tools		benchmark, real-life	0							288	420
HookerY02 HookerY02 [317]	A Relaxation of the Cumulative Constraint			0							289	474
KamarainenS02 KamarainenS02 [334]	Local Probing Applied to Scheduling		real-world, benchmark	2							290	481
Muscettola02 Muscettola02 [456]	Computing the Envelope for Stepwise-Constant Resource Allocations			0							291	543
Vilim02 Vilim02 [614]	Batch Processing with Sequence Dependent Setup Times			0							292	612
ZhuS02 ZhuS02 [667]	A Meeting Scheduling System Based on Open Constraint Programming			0							293	642
Thorsteinsson01 Thorsteinsson01 [589]	Branch-and-Check: A Hybrid Framework Integrating Mixed Integer Programming and Constraint Logic Programming			0							294	600
VanczaM01 VanczaM01 [612]	A Constraint Engine for Manufacturing Process Planning		real-world, real-life	0							295	610
VerfaillieL01 VerfaillieL01 [613]	Selecting and Scheduling Observations for Agile Satellites: Some Lessons from the Constraint Reasoning Community Point of View			0							296	611
AngelsmarkJ00 AngelsmarkJ00 [18]	Some Observations on Durations, Scheduling and Allen's Algebra			0							297	333
FocacciLN00 FocacciLN00 [216]	Solving Scheduling Problems with Setup Times and Alternative Resources		real-world	0							298	423
DorndorfPH99 DorndorfPH99 [189]	Recent Developments in Scheduling			0							299	No
KorbaaYG99 KorbaaYG99 [353]	Solving transient scheduling problem for cyclic production using timed Petri nets and constraint programming			0							300	491
Simonis99 Simonis99 [560]	Building Industrial Applications with Constraint Programming		benchmark, real-world, real-life	0							301	584
CestaOS98 CestaOS98 [145]	Scheduling Multi-capacitated Resources Under Complex Temporal Constraints			0							302	396
FrostD98 FrostD98 [226]	Optimizing with Constraints: A Case Study in Scheduling Maintenance of Electric Power Units			0							303	429

Table 4: Manually Defined PAPER Properties

Key	Title (Local Copy)	CP System	Bench	Links	Data Avail	Sol Avail	Code Avail	Related To	Classification	Constraints	a	b
GruianK98	Operation Binding and Scheduling for Low Power Using Constraint Logic Programming		benchmark	0							304	454
PembertonG98	A constraint-based approach to satellite scheduling			0							305	555
PembertonG98 [496]												
RodosekW98	A Generic Model and Hybrid Algorithm for Hoist Scheduling Problems		benchmark	0							306	568
RodosekW98 [520]												
BaptisteP97	Constraint Propagation and Decomposition Techniques for Highly Disjunctive and Highly Cumulative Project Scheduling Problems		benchmark	0							307	350
BaptisteP97 [48]												
BeckDF97	Five Pitfalls of Empirical Scheduling Research		benchmark, real-world	0							308	358
BeckDF97 [65]												
BoucherBVBL97	Multi-criteria Comparison Between Algorithmic, Constraint Logic and Specific Constraint Programming on a Real Scheduling Problem			0							309	No
BoucherBVBL97 [117]												
Caseau97	Using Constraint Propagation for Complex Scheduling Problems: Managing Size, Complex Resources and Travel		benchmark	0							310	393
Caseau97 [138]												
PapeB97	A Constraint Programming Library for Preemptive and Non-Preemptive Scheduling			0							311	No
PapeB97 [493]												
BrusoniCLMMT96	Resource-Based vs. Task-Based Approaches for Scheduling Problems			0							312	388
BrusoniCLMMT96 [124]												
Colombani96	Constraint Programming: an Efficient and Practical Approach to Solving the Job-Shop Problem			0							313	405
Colombani96 [158]												
Zhou96	A Constraint Program for Solving the Job-Shop Problem			0							314	640
Zhou96 [664]												
Goltz95	Reducing Domains for Search in CLP(FD) and Its Application to Job-Shop Scheduling		benchmark	0							315	447
Goltz95 [254]												
Puget95	Applications of Constraint Programming		benchmark	0							316	563
Puget95 [512]												
Simonis95	The CHIP System and Its Applications			0							317	582
Simonis95 [559]												
Simonis95a	Application Development with the CHIP System		real-life, bench-mark	0							318	583
Simonis95a [558]												
SimonisC95	Modelling Producer/Consumer Constraints		real-life	0							319	585
SimonisC95 [563]												
Touraivane95	Constraint Programming and Industrial Applications		real-life	0							320	603
Touraivane95 [595]												
JourdanFRD94	Data Alignment and Task Scheduling On Parallel Machines Using Concurrent Constraint Model-based Programming			0							321	No
JourdanFRD94 [328]												
NuijtenA94	Constraint Satisfaction for Multiple Capacitated Job Shop Scheduling			0							322	548
NuijtenA94 [480]												
Wallace94	Applying Constraints for Scheduling			0							323	No
Wallace94 [626]												
BaptisteLV92	Hoist scheduling problem: an approach based on constraint logic programming			0							324	349
BaptisteLV92 [51]												
ErtlK91	Optimal Instruction Scheduling using Constraint Logic Programming		real-world, benchmark	0							325	421
ErtlK91 [201]												
FoxAS82	Job-Shop Scheduling: An Investigation in Constraint-Directed Reasoning			0							326	No
FoxAS82 [220]												

3 Journal Articles

3.1 Articles from bibtex

Table 5: Works from bibtex (Total 274)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
ForbesHJST24 ForbesHJST24	M. Forbes, M. Harris, H. Jansen, F.A. van der Schoot, T. Taimre	Combining optimisation and simulation using logic-based Benders decomposition	Yes	[218]	2024	European Journal of Operational Research	15	0	26	1319	1501
PrataAN23 PrataAN23	Bruno A. Prata, Levi R. Abreu, Marcelo S. Nagano	Applications of constraint programming in production scheduling problems: A descriptive bibliometric analysis	Yes	[511]	2024	Results in Control and Optimization	17	0	0	1432	1502
abs-2402-00459 abs-2402-00459	S. Nguyen, Dhananjay R. Thiruvady, Y. Sun, M. Zhang	Genetic-based Constraint Programming for Resource Constrained Job Scheduling	Yes	[471]	2024	CoRR	21	0	0	1500	1503
AbreuNP23 AbreuNP23	Levi Ribeiro de Abreu, Marcelo Seido Nagano, Bruno A. Prata	A new two-stage constraint programming approach for open shop scheduling problem with machine blocking	Yes	[169]	2023	International Journal of Production Research	20	1	47	1248	1504
AbreuPNF23 AbreuPNF23	Levi R. Abreu, Bruno A. Prata, Marcelo S. Nagano, Jose M. Framinan	A constraint programming-based iterated greedy algorithm for the open shop with sequence-dependent processing times and makespan minimization	Yes	[3]	2023	Computers Operations Research	12	0	46	1249	1505
Adelgren2023 Adelgren2023	N. Adelgren, Christos T. Maravelias	On the utility of production scheduling formulations including record keeping variables	Yes	[7]	2023	Computers Industrial Engineering	12	0	43	1250	1506
AfsarVPG23 AfsarVPG23	S. Afsar, Camino R. Vela, Juan José Palacios, I. González-Rodríguez	Mathematical models and benchmarking for the fuzzy job shop scheduling problem	Yes	[8]	2023	Computers Industrial Engineering	14	0	50	1251	1507
AkramNHRS23 AkramNHRS23	Bilal Omar Akram, Nor Kamariah Noordin, F. Hashim, Mohd Fadlee A. Rasid, Mustafa Ismael Salman, Abdulrahman M. Abdulghani	Joint Scheduling and Routing Optimization for Deterministic Hybrid Traffic in Time-Sensitive Networks Using Constraint Programming	Yes	[13]	2023	IEEE Access	16	0	0	1253	1508
AlfieriGPS23 AlfieriGPS23	A. Alfieri, M. Garraffa, E. Pastore, F. Salassa	Permutation flowshop problems minimizing core waiting time and core idle time	Yes	[15]	2023	Computers Industrial Engineering	13	0	37	1254	1509
Caballero23 Caballero23	Jordi Coll Caballero	Scheduling through logic-based tools	Yes	[128]	2023	Constraints An Int. J.	1	0	0	1292	1510
CzerniachowskaWZ23 CzerniachowskaWZ23	K. Czerniachowska, R. Wichniarek, K. Żywicki	Constraint Programming for Flexible Flow Shop Scheduling Problem with Repeated Jobs and Repeated Operations	Yes	[160]	2023	Advances in Science and Technology Research Journal	14	0	0	1302	1511
FahimiQ23 FahimiQ23	H. Fahimi, C. Quimper	Overload-Checking and Edge-Finding for Robust Cumulative Scheduling	No	[208]	2023	INFORMS Journal on Computing	null	0	16	No	1512
Fatemi-AnarakiTFV23 Fatemi-AnarakiTFV23	S. Fatemi-Anaraki, R. Tavakkoli-Moghaddam, M. Foumani, B. Vahedi-Nouri	Scheduling of Multi-Robot Job Shop Systems in Dynamic Environments: Mixed-Integer Linear Programming and Constraint Programming Approaches	Yes	[213]	2023	Omega	15	7	60	1317	1513
GhasemiMH23 GhasemiMH23	S. Ghasemi, R. Tavakkoli-Moghaddam, M. Hamid	Operating room scheduling by emphasising human factors and dynamic decision-making styles: a constraint programming method	No	[244]	2023	International Journal of Systems Science: Operations Logistics	null	0	104	No	1514
GuoZ23 GuoZ23	P. Guo, J. Zhu	Capacity reservation for humanitarian relief: A logic-based Benders decomposition method with subgradient cut	Yes	[271]	2023	European Journal of Operational Research	29	0	112	1330	1515
GurPAE23 GurPAE23	S. Gür, M. Pinarbasi, Haci Mehmet Alakas, T. Eren	Operating room scheduling with surgical team: a new approach with constraint programming and goal programming	Yes	[272]	2023	Central Eur. J. Oper. Res.	25	1	40	1332	1516
IsikYA23 IsikYA23	Eyüp Ensar Isik, Seyda Topaloglu Yildiz, Özge Satir Akpunar	Constraint programming models for the hybrid flow shop scheduling problem and its extensions	Yes	[323]	2023	Soft Comput.	28	0	127	1355	1517
JuvinHL23a JuvinHL23a	C. Juvin, L. Houssin, P. Lopez	Logic-based Benders decomposition for the preemptive flexible job-shop scheduling problem	Yes	[333]	2023	Computers Operations Research	17	0	40	1360	1518

Table 5: Works from bibtex (Total 274)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
LacknerMMWW23	M. Lackner, C. Mrkvicka, N. Musliu, D. Walkiewicz, F. Winter	Exact methods for the Oven Scheduling Problem	Yes	[376]	2023	Constraints An Int. J.	42	0	32	1376	1519
MontemanniD23	R. Montemanni, M. Dell'Amico	Solving the Parallel Drone Scheduling Traveling Salesman Problem via Constraint Programming	Yes	[449]	2023	Algorithms	13	2	18	1403	1520
MontemanniD23a	R. Montemanni, M. Dell'Amico	Constraint programming models for the parallel drone scheduling vehicle routing problem	Yes	[448]	2023	EURO J. Comput. Optim.	20	0	14	1404	1521
NaderiRR23	B. Naderi, R. Ruiz, V. Roshanaei	Mixed-Integer Programming vs. Constraint Programming for Shop Scheduling Problems: New Results and Outlook	Yes	[462]	2023	INFORMS Journal on Computing	27	2	50	1408	1522
NouriMHD23	B. Vahedi-Nouri, R. Tavakkoli-Moghaddam, Z. Hanzálek, A. Dolgui	Production scheduling in a reconfigurable manufacturing system benefiting from human-robot collaboration	No	[606]	2023	International Journal of Production Research	null	2	44	No	1523
PenzDN23	L. Penz, S. Dauzère-Pérès, M. Nattaf	Minimizing the sum of completion times on a single machine with health index and flexible maintenance operations	Yes	[497]	2023	Computers Operations Research	13	0	34	1427	1524
ShaikhK23	Aftab Ahmed Shaikh, Abdullah Ayub Khan	Management of electronic ledger: a constraint programming approach for solving curricula scheduling problems	Yes	[549]	2023	Int. J. Electron. Secur. Digit. Forensics	12	0	0	1448	1525
YuraszeckMCCR23	F. Yuraszeck, E. Montero, D. Canut-de-Bon, N. Cuneo, M. Rojel	A Constraint Programming Formulation of the Multi-Mode Resource-Constrained Project Scheduling Problem for the Flexible Job Shop Scheduling Problem	Yes	[653]	2023	IEEE Access	11	0	0	1478	1526
ZhuSZW23	X. Zhu, J. Son, X. Zhang, J. Wu	Constraint programming and logic-based Benders decomposition for the integrated process planning and scheduling problem	Yes	[668]	2023	Omega	22	1	36	1487	1527
abs-2305-19888	V. Heinz, A. Novák, M. Vlk, Z. Hanzálek	Constraint Programming and Constructive Heuristics for Parallel Machine Scheduling with Sequence-Dependent Setups and Common Servers	Yes	[298]	2023	CoRR	42	0	0	1497	1528
abs-2306-05747	P. Tassel, M. Gebser, K. Schekotihin	An End-to-End Reinforcement Learning Approach for Job-Shop Scheduling Problems Based on Constraint Programming	Yes	[579]	2023	CoRR	9	0	0	1498	1529
abs-2312-13682	G. Perez, G. Glorian, W. Suijlen, A. Lallouet	A Constraint Programming Model for Scheduling the Unloading of Trains in Ports: Extended	Yes	[499]	2023	CoRR	20	0	0	1499	1530
AbreuN22	Levi Ribeiro de Abreu, Marcelo Seido Nagano	A new hybridization of adaptive large neighborhood search with constraint programming for open shop scheduling with sequence-dependent setup times	Yes	[168]	2022	Computers Industrial Engineering	20	10	56	1247	1531
BourreauGGLT22	E. Bourreau, T. Garaix, M. Gondran, P. Lacomme, N. Tchernev	A constraint-programming based decomposition method for the Generalised Workforce Scheduling and Routing Problem (GWSRP)	Yes	[119]	2022	International Journal of Production Research	19	4	44	1290	1532
CampeauG22	L. Campeau, M. Gamache	Short- and medium-term optimization of underground mine planning using constraint programming	Yes	[129]	2022	Constraints An Int. J.	18	0	22	1293	1533
ColT22	Giacomo Da Col, Erich C. Teppan	Industrial-size job shop scheduling with constraint programming	Yes	[161]	2022	Operations Research Perspectives	19	3	55	1300	1534
ElciOH22	Özgün Elçi, John N. Hooker	Stochastic Planning and Scheduling with Logic-Based Benders Decomposition	Yes	[196]	2022	INFORMS Journal on Computing	21	2	34	1307	1535
EmdeZD22	S. Emde, S. Zehtabian, Y. Disser	Point-to-point and milk run delivery scheduling: models, complexity results, and algorithms based on Benders decomposition	Yes	[200]	2022	Annals of Operations Research	30	0	52	1308	1536
EtminaniesfahaniGNMS22	A. Etminaniesfahani, H. Gu, Leila Moslemi Naeni, A. Salehipour	A Forward-Backward Relax-and-Solve Algorithm for the Resource-Constrained Project Scheduling Problem	Yes	[203]	2022	SN Computer Science	10	0	57	1310	1537

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FarsiTM22 FarsiTM22	A. Farsi, S. Ali Torabi, M. Mokhtarzadeh	Integrated surgery scheduling by constraint programming and meta-heuristics	Yes	[212]	2022	International Journal of Management Science and Engineering Management Oper. Res. Forum	14	0	0	1316	1538
FetgoD22 FetgoD22	S��verine Betmbe Fetgo, Cl��mentin Tayou Djam��gni	Horizontally Elastic Edge-Finder Algorithm for Cumulative Resource Constraint Revisited	Yes	[215]	2022	Computers Industrial Engineering	32	0	20	1318	1539
HeinzNVH22 HeinzNVH22	V. Heinz, A. Nov��k, M. Vlk, Z. Hanz��lek	Constraint Programming and constructive heuristics for parallel machine scheduling with sequence-dependent setups and common servers	Yes	[297]	2022	INFORMS Journal on Computing	16	5	25	1344	1540
HillBCGN22 HillBCGN22	A. Hill, Andrea J. Brickey, I. Cipriano, M. Goycoolea, A. Newman	Project Scheduling Problems in Underground Mining Optimization Strategies for Resource-Constrained	No	[303]	2022	SSRN Electronic Journal	null	0	53	No	1541
JuvinHL22 JuvinHL22	C. Juvin, L. Houssin, P. Lopez	Logic-Based Benders Decomposition for the Preemptive Flexible Job-Shop Scheduling Problem	Yes	[331]	2022	INFORMS Journal on Computing	32	0	29	1359	1542
MartnezAJ22 MartnezAJ22	Karim P��rez Mart��nez, Y. Adulyasak, R. Jans	Logic-Based Benders Decomposition for Integrated Process Configuration and Production Planning Problems	No	[430]	2022	European Journal of Operational Research	null	1	29	No	1543
MullerMKP22 MullerMKP22	D. M��ller, Marcus Gerhard M��ller, D. Kress, E. Pesch	An algorithm selection approach for the flexible job shop scheduling problem: Choosing constraint programming solvers through machine learning	Yes	[453]	2022	SSRN Electronic Journal	18	17	59	1405	1544
NaderiBZ22 NaderiBZ22	B. Naderi, Mehmet A. Begen, G. Zhang	Integrated Order Acceptance and Resource Decisions Under Uncertainty: Robust and Stochastic Approaches	Yes	[459]	2022	Computers Operations Research	29	0	44	1406	1545
NaderiBZ22a NaderiBZ22a	B. Naderi, Mehmet A. Begen, Gregory S. Zaric	Type-2 integrated process-planning and scheduling problem: Reformulation and solution algorithms	Yes	[458]	2022	INFORMS Journal on Optimization	19	3	44	1407	1546
NaderiR22 NaderiR22	B. Naderi, V. Roshanaei	Critical-Path-Search Logic-Based Benders Decomposition Approaches for Flexible Job Shop Scheduling	No	[460]	2022	European Journal of Operational Research	null	5	49	No	1547
PohlAK22 PohlAK22	M. Pohl, C. Artigues, R. Kolisch	Solving the time-discrete winter runway scheduling problem: A column generation and constraint programming approach	Yes	[504]	2022	International Journal of Production Research	16	4	31	1429	1548
ShiYXQ22 ShiYXQ22	G. Shi, Z. Yang, Y. Xu, Y. Quan	Solving the integrated process planning and scheduling problem using an enhanced constraint programming-based approach	No	[551]	2022	Soft Comput.	18	2	45	No	1549
SubulanC22 SubulanC22	K. Subulan, G. ��akir	Constraint programming-based transformation approach for a mixed fuzzy-stochastic resource investment project scheduling problem	Yes	[567]	2022	International Journal of Production Research	38	5	86	1455	1550
YunosogluY22 YunusogluY22	P. Yunusoglu, Seyda Topaloglu Yildiz	Constraint programming approach for multi-resource-constrained unrelated parallel machine scheduling problem with sequence-dependent setup times	Yes	[650]	2022	Mathematics	18	20	58	1477	1551
YuraszeckMPV22 YuraszeckMPV22	F. Yuraszeck, G. Mej��a, J. Pereira, M. Vil��	A Novel Constraint Programming Decomposition Approach for the Total Flow Time Fixed Group Shop Scheduling Problem	Yes	[652]	2022	CoRR	26	6	29	1479	1552
abs-2211-14492 abs-2211-14492	Y. Sun, S. Nguyen, Dhananjay R. Thiruvady, X. Li, Andreas T. Ernst, U. Aickelin	Enhancing Constraint Programming via Supervised Learning for Job Shop Scheduling	Yes	[568]	2022	IEEE Access	17	0	0	1496	1553
AbohashimaEG21 AbohashimaEG21	H. Abohashima, Amr B. Eltawil, Mohamed S. Gheith	A Mathematical Programming Model and a Firefly-Based Heuristic for Real-Time Traffic Signal Scheduling With Physical Constraints	Yes	[2]	2021	Engineering Optimization	14	1	25	1245	1554
AbreuAPNM21 AbreuAPNM21	Levi Ribeiro de Abreu, Kennedy A. G. Arat��jo, Bruno de Athayde Prata, Marcelo Seido Nagano, J. V. Moccellini	A new variable neighbourhood search with a constraint programming search strategy for the open shop scheduling problem with operation repetitions	Yes	[167]	2021		21	0	0	1246	1555

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Bedhief21 Bedhief21	Asma Ouled Bedhief	Comparing Mixed-Integer Programming and Constraint Programming Models for the Hybrid Flow Shop Scheduling Problem with Dedicated Machines	Yes	[74]	2021	Journal Européen des Systèmes Automatisés	7	0	0	1274	1556
CarlierSJP21 CarlierSJP21	J. Carlier, A. Sahli, A. Jouglet, E. Pinson	A faster checker of the energetic reasoning for the cumulative scheduling problem	No	[137]	2021	International Journal of Production Research	null	3	26	No	1557
FanXG21 FanXG21	H. Fan, H. Xiong, M. Goh	Genetic programming-based hyper-heuristic approach for solving dynamic job shop scheduling problem with extended technical precedence constraints	Yes	[211]	2021	Computers Operations Research	15	18	57	1315	1558
HamPK21 HamPK21	A. Ham, M. Park, Kyung Min Kim	Energy-Aware Flexible Job Shop Scheduling Using Mixed Integer Programming and Constraint Programming	Yes	[277]	2021	Mathematical Problems in Engineering	12	0	0	1338	1559
HubnerGSV21 HubnerGSV21	F. Hübner, P. Gerhards, C. Stürck, R. Volk	Solving the nuclear dismantling project scheduling problem by combining mixed-integer and constraint programming techniques and metaheuristics	Yes	[320]	2021	Journal of Scheduling	22	0	37	1354	1560
KoehlerBFFHPSSS21 KoehlerBFFHPSSS21	J. Koehler, J. Bürgler, U. Fontana, E. Fux, Florian A. Herzog, M. Pouly, S. Saller, A. Salyaeva, P. Scheiblechner, K. Waelti	Cable tree wiring - benchmarking solvers on a real-world scheduling problem with a variety of precedence constraints	Yes	[350]	2021	Constraints An Int. J.	51	2	52	1365	1561
NaderiRBAU21 NaderiRBAU21	B. Naderi, V. Roshanaei, Mehmet A. Begen, Dionne M. Aleman, David R. Urbach	Increased Surgical Capacity without Additional Resources: Generalized Operating Room Planning and Scheduling	No	[461]	2021	Production and Operations Management	null	22	61	No	1562
PandeyS21a PandeyS21a	V. Pandey, P. Saini	Constraint programming versus heuristic approach to MapReduce scheduling problem in Hadoop YARN for energy minimization	Yes	[491]	2021	J. Supercomput.	29	3	32	1424	1563
QinWSLS21 QinWSLS21	M. Qin, R. Wang, Z. Shi, L. Liu, L. Shi	A Genetic Programming-Based Scheduling Approach for Hybrid Flow Shop With a Batch Processor and Waiting Time Constraint	Yes	[513]	2021	IEEE Trans Autom. Sci. Eng.	12	12	30	1434	1564
VlkHT21 VlkHT21	M. Vlk, Z. Hanzálek, S. Tang	Constraint programming approaches to joint routing and scheduling in time-sensitive networks	Yes	[625]	2021	Computers Industrial Engineering	14	7	22	1470	1565
ZhangYW21 ZhangYW21	L. Zhang, C. Yu, T. N. Wong	A graph-based constraint programming approach for the integrated process planning and scheduling problem	Yes	[661]	2021	Computers Operations Research	10	6	35	1485	1566
abs-2102-08778 abs-2102-08778	Giacomo Da Col, E. Teppan	Large-Scale Benchmarks for the Job Shop Scheduling Problem	Yes	[156]	2021	CoRR	10	0	0	1495	1567
AlizdehS20 AlizdehS20	S. Alizdeh, S. Saeidi	Fuzzy project scheduling with critical path including risk and resource constraints using linear programming	No	[16]	2020	Int. J. Adv. Intell. Paradigms	14	1	0	No	1568
AntunesABD20 AntunesABD20	M. Antunes, V. Armant, Kenneth N. Brown, Daniel A. Desmond, G. Escamocher, A. George, D. Grimes, M. O’Keeffe, Y. Lin, B. O’Sullivan, C. Ozturk, L. Quesada, M. Siala, H. Simonis, N. Wilson	Assigning and Scheduling Service Visits in a Mixed Urban/Rural Setting	Yes	[20]	2020	Int. J. Artif. Intell. Tools	31	0	16	1255	1569
AstrandJZ20 AstrandJZ20	M. Åstrand, M. Johansson, A. Zanarini	Underground mine scheduling of mobile machines using Constraint Programming and Large Neighborhood Search	Yes	[38]	2020	Computers Operations Research	13	16	24	1258	1570
BadicaBI20 BadicaBI20	A. Badica, C. Badica, M. Ivanovic	Block structured scheduling using constraint logic programming	Yes	[39]	2020	AI Commun.	17	2	28	1259	1571
BenediktMH20 BenediktMH20	O. Benedikt, I. Módos, Z. Hanzálek	Power of pre-processing: production scheduling with variable energy pricing and power-saving states	Yes	[86]	2020	Constraints An Int. J.	19	1	18	1279	1572
CauwelaertDS20 CauwelaertDS20	Sasha Van Cauwelaert, C. Dejemeppe, P. Schaus	An Efficient Filtering Algorithm for the Unary Resource Constraint with Transition Times and Optional Activities	Yes	[143]	2020	Journal of Scheduling	19	2	21	1295	1573

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FallahiAC20 FallahiAC20	Abdellah El Fallahi, El Yaakoubi Anass, M. Cherkaoui	Tabu search and constraint programming-based approach for a real scheduling and routing problem	Yes	[210]	2020	International Journal of Applied Management Science Engineering Optimization	18	0	0	1314	1574
GuoHLW20 GuoHLW20	P. Guo, X. He, Y. Luan, Y. Wang	Logic-based Benders decomposition for gantry crane scheduling with transferring position constraints in a rail-road container terminal	No	[270]	2020	Computers Industrial Engineering	null	8	31	No	1575
HauderBRPA20 HauderBRPA20	Viktoria A. Hauder, A. Beham, S. Raggl, Sophie N. Parragh, M. Affenzeller	Resource-constrained multi-project scheduling with activity and time flexibility	Yes	[285]	2020	Computers Industrial Engineering	14	14	46	1341	1576
LunardiBLRV20 LunardiBLRV20	William T. Lunardi, Ernesto G. Birgin, P. Laborie, Débora P. Ronconi, H. Voos	Mixed Integer linear programming and constraint programming models for the online printing shop scheduling problem	Yes	[415]	2020	Computers Operations Research	20	30	18	1390	1577
MejiaY20 MejiaY20	G. Mejía, F. Yuraszeck	A self-tuning variable neighborhood search algorithm and an effective decoding scheme for open shop scheduling problems with travel/setup times	Yes	[433]	2020	European Journal of Operational Research	13	24	45	1395	1578
MengZRZL20 MengZRZL20	L. Meng, C. Zhang, Y. Ren, B. Zhang, C. Lv	Mixed-integer linear programming and constraint programming formulations for solving distributed flexible job shop scheduling problem	Yes	[437]	2020	Computers Industrial Engineering	13	100	62	1398	1579
MokhtarzadehTNF20 MokhtarzadehTNF20	M. Mokhtarzadeh, R. Tavakkoli-Moghaddam, Behdin Vahedi Nouri, A. Farsi	Scheduling of human-robot collaboration in assembly of printed circuit boards: a constraint programming approach	Yes	[445]	2020	Int. J. Comput. Integr. Manuf.	14	25	32	1402	1580
Polo-MejiaALB20 Polo-MejiaALB20	O. Polo-Mejía, C. Artigues, P. Lopez, V. Basini	Mixed-integer/linear and constraint programming approaches for activity scheduling in a nuclear research facility	Yes	[505]	2020	International Journal of Production Research	18	8	23	1430	1581
QinDCS20 QinDCS20	T. Qin, Y. Du, Jiang Hang Chen, M. Sha	Combining mixed integer programming and constraint programming to solve the integrated scheduling problem of container handling operations of a single vessel	Yes	[514]	2020	European Journal of Operational Research	18	27	30	1433	1582
RoshanaeiBAUB20 RoshanaeiBAUB20	V. Roshanaei, Kyle E.C. Booth, Dionne M. Aleman, David R. Urbach, J. Christopher Beck	Branch-and-check methods for multi-level operating room planning and scheduling	Yes	[523]	2020	International Journal of Production Economics	19	24	43	1437	1583
SacramentoSP20 SacramentoSP20	D. Sacramento, C. Solnon, D. Pisinger	Constraint Programming and Local Search Heuristic: a Matheuristic Approach for Routing and Scheduling Feeder Vessels in Multi-terminal Ports	Yes	[528]	2020	Oper. Res. Forum	33	2	38	1440	1584
WallaceY20 WallaceY20	M. Wallace, N. Yorke-Smith	A new constraint programming model and solving for the cyclic hoist scheduling problem	Yes	[629]	2020	Constraints An Int. J.	19	5	18	1472	1585
ZarandiASC20 ZarandiASC20	Mohammad Hossein Fazel Zarandi, Ali Akbar Sadat Asl, S. Sotudian, O. Castillo	A state of the art review of intelligent scheduling	Yes	[656]	2020	Artif. Intell. Rev.	93	55	445	1480	1586
ZouZ20 ZouZ20	X. Zou, L. Zhang	A constraint programming approach for scheduling repetitive projects with atypical activities considering soft logic	Yes	[671]	2020	Automation in Construction	10	0	0	1488	1587
ArkipovBL19 ArkipovBL19	D. Arkhipov, O. Battaïa, A. Lazarev	An efficient pseudo-polynomial algorithm for finding a lower bound on the makespan for the Resource Constrained Project Scheduling Problem	Yes	[25]	2019	European Journal of Operational Research	10	12	24	1256	1588
EdwardsBSE19 EdwardsBSE19	Steven J. Edwards, D. Baatar, K. Smith-Miles, Andreas T. Ernst	Symmetry breaking of identical projects in the high-multiplicity RCPSP/max	No	[194]	2019	Journal of the Operational Research Society	null	3	40	No	1589
EscobetPQPRA19 EscobetPQPRA19	T. Escobet, V. Puig, J. Quevedo, P. Palà-Schönwälder, J. Romera, W. Adelman	Optimal batch scheduling of a multiproduct dairy process using a combined optimization/constraint programming approach	Yes	[202]	2019	Computers Chemical Engineering	10	17	18	1309	1590
GurEA19 GurEA19	Şeyda Gür, T. Eren, Hacı Mehmet Alakaş	Surgical Operation Scheduling with Goal Programming and Constraint Programming: A Case Study	Yes	[672]	2019	Mathematics	24	0	0	1331	1591
HoundjiSW19 HoundjiSW19	Vinasétan Ratheil Houndji, P. Schaus, Laurence A. Wolsey	The item dependent stockingcost constraint	Yes	[318]	2019	Constraints An Int. J.	27	0	17	1353	1592

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NattafDYW19 NattafDYW19	M. Nattaf, S. Dauzère-Pérès, C. Yugma, C. Wu	Parallel machine scheduling with time constraints on machine qualifications	Yes	[467]	2019	Computers Operations Research	16	14	21	1412	1593
NattafHKAL19 NattafHKAL19	M. Nattaf, M. Horváth, T. Kis, C. Artigues, P. Lopez	Polyhedral results and valid inequalities for the continuous energy-constrained scheduling problem	Yes	[468]	2019	Discret. Appl. Math.	16	5	12	1413	1594
NishikawaSTT19 NishikawaSTT19	H. Nishikawa, K. Shimada, I. Taniguchi, H. Tomiyama	A Constraint Programming Approach to Scheduling of Malleable Tasks	Yes	[474]	2019	Int. J. Netw. Comput.	16	0	0	1414	1595
Novas19 Novas19	Juan M. Novas	Production scheduling and lot streaming at flexible job-shops environments using constraint programming	Yes	[476]	2019	Computers Industrial Engineering	13	30	29	1416	1596
WariZ19 WariZ19	E. Wari, W. Zhu	A Constraint Programming model for food processing industry: a case for an ice cream processing facility	No	[633]	2019	International Journal of Production Research	null	11	42	No	1597
WikarekS19 WikarekS19	J. Wikarek, P. Sitek	A Constraint-Based Declarative Programming Framework for Scheduling and Resource Allocation Problems	Yes	[636]	2019	Vietnam. J. Comput. Sci.	22	0	11	1474	1598
YounespourAKE19 YounespourAKE19	M. Younespour, A. Atighehchian, K. Kianfar, Ehsan Tarkesh Esfahani	Using mixed integer programming and constraint programming for operating rooms scheduling with modified block strategy	Yes	[647]	2019	Operations research for health care	11	0	0	1476	1599
abs-1901-07914 abs-1901-07914	Jan Kristof Behrens, R. Lange, M. Mansouri	A Constraint Programming Approach to Simultaneous Task Allocation and Motion Scheduling for Industrial Dual-Arm Manipulation Tasks	Yes	[77]	2019	CoRR	8	0	0	1491	1600
abs-1902-01193 abs-1902-01193	O. M. Alade, A. O. Amusat	Solving Nurse Scheduling Problem Using Constraint Programming Technique	Yes	[14]	2019	CoRR	9	0	0	1492	1601
abs-1902-09244 abs-1902-09244	Viktoria A. Hauder, A. Beham, S. Raggl, Sophie N. Parragh, M. Affenzeller	On constraint programming for a new flexible project scheduling problem with resource constraints	Yes	[284]	2019	CoRR	62	0	0	1493	1602
abs-1911-04766 abs-1911-04766	T. Geibinger, F. Mischek, N. Musliu	Investigating Constraint Programming and Hybrid Methods for Real World Industrial Test Laboratory Scheduling	Yes	[237]	2019	CoRR	16	0	0	1494	1603
BaptisteB18 BaptisteB18	P. Baptiste, N. Bonifas	Redundant cumulative constraints to compute preemptive bounds	Yes	[46]	2018	Discret. Appl. Math.	10	3	13	1263	1604
BorghesiBLMB18 BorghesiBLMB18	A. Borghesi, A. Bartolini, M. Lombardi, M. Milano, L. Benini	Scheduling-based power capping in high performance computing systems	Yes	[116]	2018	Sustain. Comput. Informatics Syst.	13	11	22	1289	1605
CauwelaertLS18 CauwelaertLS18	Sascha Van Cauwelaert, M. Lombardi, P. Schaus	How efficient is a global constraint in practice? - A fair experimental framework	Yes	[142]	2018	Constraints An Int. J.	36	2	39	1296	1606
FahimiOQ18 FahimiOQ18	H. Fahimi, Y. Ouellet, C. Quimper	Linear-time filtering algorithms for the disjunctive constraint and a quadratic filtering algorithm for the cumulative not-first not-last	Yes	[207]	2018	Constraints An Int. J.	22	2	20	1312	1607
GedikKEK18 GedikKEK18	R. Gedik, D. Kalathia, G. Egilmez, E. Kirac	A constraint programming approach for solving unrelated parallel machine scheduling problem	Yes	[235]	2018	Computers Industrial Engineering	11	43	22	1322	1608
GokgurHO18 GokgurHO18	B. Gökgür, B. Hnich, S. Özpeynirci	Parallel machine scheduling with tool loading: a constraint programming approach	Yes	[251]	2018	International Journal of Production Research	17	31	43	1324	1609
GoldwaserS18 GoldwaserS18	A. Goldwaser, A. Schutt	Optimal Torpedo Scheduling	Yes	[253]	2018	J. Artif. Intell. Res.	32	8	0	1325	1610
GombolayWS18 GombolayWS18	Matthew C. Gombolay, Ronald J. Wilcox, Julie A. Shah	Fast Scheduling of Robot Teams Performing Tasks With Temporospatial Constraints	Yes	[255]	2018	IEEE Transactions on Robotics	20	71	75	1326	1611
Ham18 Ham18	A. Ham	Integrated scheduling of m-truck, m-drone, and m-depot constrained by time-window, drop-pickup, and m-visit using constraint programming	Yes	[275]	2018	Transportation Research Part C: Emerging Technologies	14	0	0	1335	1612
Ham18a Ham18a	A. Ham	Scheduling of Dual Resource Constrained Lithography Production: Using CP and MIP/CP	Yes	[276]	2018	IEEE Transactions on Semiconductor Manufacturing	10	20	21	1336	1613

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KreterSSZ18 KreterSSZ18	S. Kreter, A. Schutt, Peter J. Stuckey, J. Zimmermann	Mixed-integer linear programming and constraint programming formulations for solving resource availability cost problems	Yes	[366]	2018	European Journal of Operational Research	15	25	31	1371	1614
LaborieRSV18 LaborieRSV18	P. Laborie, J. Rogerie, P. Shaw, P. Vilím	IBM ILOG CP optimizer for scheduling - 20+ years of scheduling with constraints at IBM/ILOG	Yes	[374]	2018	Constraints An Int. J.	41	148	35	1375	1615
PourDERB18 PourDERB18	Shahrazad M. Pour, John H. Drake, Lena Secher Ejlertsen, Kourosh Marjani Rasmussen, Edmund K. Burke	A hybrid Constraint Programming/Mixed Integer Programming framework for the preventive signaling maintenance crew scheduling problem	Yes	[507]	2018	European Journal of Operational Research	12	41	13	1431	1616
ShinBBHO18 ShinBBHO18	Seung Yeob Shin, Y. Brun, H. Balasubramanian, Philip L. Henneman, Leon J. Osterweil	Discrete-Event Simulation and Integer Linear Programming for Constraint-Aware Resource Scheduling	Yes	[552]	2018	IEEE Trans. Syst. Man Cybern. Syst.	16	9	31	1449	1617
TangLWSK18 TangLWSK18	Y. Tang, R. Liu, F. Wang, Q. Sun, Amr A. Kandil	Scheduling Optimization of Linear Schedule with Constraint Programming	Yes	[576]	2018	Comput. Aided Civ. Infrastructure Eng.	28	24	76	1457	1618
TranPZLDB18 TranPZLDB18	Tony T. Tran, M. Padmanabhan, Peter Yun Zhang, H. Li, Douglas G. Down, J. Christopher Beck	Multi-stage resource-aware scheduling for data centers with heterogeneous servers	Yes	[599]	2018	Journal of Scheduling	17	8	26	1465	1619
ZhangW18 ZhangW18	S. Zhang, S. Wang	Flexible Assembly Job-Shop Scheduling With Sequence-Dependent Setup Times and Part Sharing in a Dynamic Environment: Constraint Programming Model, Mixed-Integer Programming Model, and Dispatching Rules	Yes	[662]	2018	IEEE Trans. Engineering Management	18	49	28	1484	1620
GomesM17 GomesM17	Francisco Regis Abreu Gomes, Geraldo Robson Mateus	Improved Combinatorial Benders Decomposition for a Scheduling Problem with Unrelated Parallel Machines	Yes	[257]	2017	Journal of Applied Mathematics	11	1	43	1327	1621
HookerH17 HookerH17	John N. Hooker, Willem-Jan van Hoeve	Constraint programming and operations research	Yes	[316]	2017	Constraints An Int. J.	24	12	189	1351	1622
KreterSS17 KreterSS17	S. Kreter, A. Schutt, Peter J. Stuckey	Using constraint programming for solving RCPSP/max-cal	Yes	[365]	2017	Constraints An Int. J.	31	15	20	1370	1623
NattafAL17 NattafAL17	M. Nattaf, C. Artigues, P. Lopez	Cumulative scheduling with variable task profiles and concave piecewise linear processing rate functions	Yes	[465]	2017	Constraints An Int. J.	18	5	10	1410	1624
RoshanaeiLAU17 RoshanaeiLAU17	V. Roshanaei, C. Luong, Dionne M. Aleman, D. Urbach	Propagating logic-based Benders' decomposition approaches for distributed operating room scheduling	Yes	[524]	2017	European Journal of Operational Research	17	61	46	1438	1625
RoshanaeiLAU17a RoshanaeiLAU17a	V. Roshanaei, C. Luong, Dionne M. Aleman, David R. Urbach	Collaborative Operating Room Planning and Scheduling	No	[525]	2017	INFORMS Journal on Computing	null	54	42	No	1626
TranVNB17 TranVNB17	Tony T. Tran, Tiago Stegun Vaquero, G. Nejat, J. Christopher Beck	Robots in Retirement Homes: Applying Off-the-Shelf Planning and Scheduling to a Team of Assistive Robots	Yes	[601]	2017	J. Artif. Intell. Res.	68	12	0	1466	1627
BlomPS16 BlomPS16	Michelle L. Blom, Adrian R. Pearce, Peter J. Stuckey	A Decomposition-Based Algorithm for the Scheduling of Open-Pit Networks Over Multiple Time Periods	Yes	[100]	2016	Manag. Sci.	26	20	36	1285	1628
Bonfietti16 Bonfietti16	A. Bonfietti	A constraint programming scheduling solver for the MPOpt programming environment	Yes	[106]	2016	Intelligenza Artificiale	13	0	19	1287	1629
BridiBLMB16 BridiBLMB16	T. Bridi, A. Bartolini, M. Lombardi, M. Milano, L. Benini	A Constraint Programming Scheduler for Heterogeneous High-Performance Computing Machines	Yes	[121]	2016	IEEE Trans. Parallel Distributed Syst.	14	17	22	1291	1630
CireCH16 CireCH16	Andre A. Ciré, E. Coban, John N. Hooker	Logic-based Benders decomposition for planning and scheduling: a computational analysis	Yes	[151]	2016	The Knowledge Engineering Review	12	15	21	1298	1631
DoulabiRP16 DoulabiRP16	Seyed Hossein Hashemi Doulabi, L. Rousseau, G. Pesant	A Constraint-Programming-Based Branch-and-Price-and-Cut Approach for Operating Room Planning and Scheduling	Yes	[191]	2016	INFORMS Journal on Computing	17	56	28	1306	1632
HamC16 HamC16	Andy M. Ham, E. Cakici	Flexible job shop scheduling problem with parallel batch processing machines: MIP and CP approaches	Yes	[278]	2016	Computers Industrial Engineering	6	50	26	1337	1633

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HebrardHJMPV16 HebrardHJMPV16 KuB16 KuB16	E. Hebrard, M. Huguet, N. Jozefowiez, A. Maillard, C. Pralet, G. Verfaillie W. Ku, J. Christopher Beck	Approximation of the parallel machine scheduling problem with additional unit resources Mixed Integer Programming models for job shop scheduling: A computational analysis	Yes	[288]	2016	Discret. Appl. Math.	10	9	8	1342	1634
NattafALR16 NattafALR16	M. Nattaf, C. Artigues, P. Lopez, D. Rivreau	Energetic reasoning and mixed-integer linear programming for scheduling with a continuous resource and linear efficiency functions	Yes	[466]	2016	Computers Operations Research OR Spectr.	34	10	15	1411	1636
NovaraNH16 NovaraNH16	Franco M. Novara, Juan M. Novas, Gabriela P. Henning	A novel constraint programming model for large-scale scheduling problems in multiproduct multistage batch plants: Limited resources and campaign-based operation	Yes	[475]	2016	Computers Chemical Engineering	17	18	31	1415	1637
TranAB16 TranAB16	Tony T. Tran, A. Araujo, J. Christopher Beck	Decomposition Methods for the Parallel Machine Scheduling Problem with Setups	Yes	[596]	2016	INFORMS Journal on Computing	13	72	28	1464	1638
ZarandiKS16 ZarandiKS16	M. H. Fazel Zarandi, H. Khorshidian, Mohsen Akbarpour Shirazi	A constraint programming model for the scheduling of JIT cross-docking systems with preemption	Yes	[655]	2016	Journal of Intelligent Manufacturing	17	28	14	1481	1639
BajestaniB15 BajestaniB15	Maliheh Aramon Bajestani, J. Christopher Beck	A two-stage coupled algorithm for an integrated maintenance planning and flowshop scheduling problem with deteriorating machines	Yes	[43]	2015	Journal of Scheduling	16	17	59	1261	1640
EvenSH15a EvenSH15a	C. Even, A. Schutt, Pascal Van Hentenryck	A Constraint Programming Approach for Non-Preemptive Evacuation Scheduling	Yes	[205]	2015	CoRR	16	0	0	1311	1641
GoelSHFS15 GoelSHFS15	V. Goel, M. Slusky, Willem-Jan van Hoeve, Kevin C. Furman, Y. Shao	Constraint programming for LNG ship scheduling and inventory management	Yes	[250]	2015	European Journal of Operational Research	12	48	4	1323	1642
GrimesH15 GrimesH15	D. Grimes, E. Hebrard	Solving Variants of the Job Shop Scheduling Problem Through Conflict-Directed Search	Yes	[260]	2015	INFORMS Journal on Computing	17	12	41	1328	1643
Kameugne15 Kameugne15	R. Kameugne	Propagation techniques of resource constraint for cumulative scheduling	Yes	[336]	2015	Constraints An Int. J.	2	0	0	1361	1644
LetortCB15 LetortCB15	A. Letort, M. Carlsson, N. Beldiceanu	Synchronized sweep algorithms for scalable scheduling constraints	Yes	[387]	2015	Constraints An Int. J.	52	2	14	1378	1645
NattafAL15 NattafAL15	M. Nattaf, C. Artigues, P. Lopez	A hybrid exact method for a scheduling problem with a continuous resource and energy constraints	Yes	[464]	2015	Constraints An Int. J.	21	14	13	1409	1646
SchnellH15 SchnellH15	A. Schnell, Richard F. Hartl	On the efficient modeling and solution of the multi-mode resource-constrained project scheduling problem with generalized precedence relations	Yes	[535]	2015	OR Spectrum	21	24	20	1445	1647
Siala15 Siala15	M. Siala	Search, propagation, and learning in sequencing and scheduling problems	Yes	[553]	2015	Constraints An Int. J.	2	4	0	1450	1648
SimoninAHL15 SimoninAHL15	G. Simonin, C. Artigues, E. Hebrard, P. Lopez	Scheduling scientific experiments for comet exploration	Yes	[557]	2015	Constraints An Int. J.	23	4	5	1451	1649
WangMD15 WangMD15	T. Wang, N. Meskens, D. Duvivier	Scheduling operating theatres: Mixed integer programming vs. constraint programming	Yes	[632]	2015	European Journal of Operational Research	13	36	33	1473	1650
BlomBPS14 BlomBPS14	Michelle L. Blom, Christina N. Burt, Adrian R. Pearce, Peter J. Stuckey	A Decomposition-Based Heuristic for Collaborative Scheduling in a Network of Open-Pit Mines	Yes	[99]	2014	INFORMS Journal on Computing	19	15	47	1284	1651
BonfiettiLBM14 BonfiettiLBM14	A. Bonfietti, M. Lombardi, L. Benini, M. Milano	CROSS cyclic resource-constrained scheduling solver	Yes	[109]	2014	Artificial Intelligence	28	8	15	1288	1652
GrimesIOS14 GrimesIOS14	D. Grimes, G. Ifrim, B. O'Sullivan, H. Simonis	Analyzing the impact of electricity price forecasting on energy cost-aware scheduling	Yes	[262]	2014	Sustain. Comput. Informatics Syst.	16	6	7	1329	1653
HarjunkoskiMBC14 HarjunkoskiMBC14	I. Harjunkoski, Christos T. Maravelias, P. Bongers, Pedro M. Castro, S. Engell, Ignacio E. Grossmann, John N. Hooker, C. Méndez, G. Sand, J. Wassick	Scope for industrial applications of production scheduling models and solution methods	Yes	[281]	2014	Computers Chemical Engineering	33	381	176	1340	1654
KameugneFSN14 KameugneFSN14	R. Kameugne, Laure Pauline Fotso, Joseph D. Scott, Y. Ngo-Kateu	A quadratic edge-finding filtering algorithm for cumulative resource constraints	Yes	[340]	2014	Constraints An Int. J.	27	6	10	1362	1655

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NovasH14 NovasH14	Juan M. Novas, Gabriela P. Henning	Integrated scheduling of resource-constrained flexible manufacturing systems using constraint programming	Yes	[479]	2014	Expert Syst. Appl.	14	35	26	1419	1656
TerekhovTDB14 TerekhovTDB14	D. Terekhov, Tony T. Tran, Douglas G. Down, J. Christopher Beck	Integrating Queueing Theory and Scheduling for Dynamic Scheduling Problems	Yes	[583]	2014	J. Artif. Intell. Res.	38	12	0	1459	1657
ThiruvadyWGS14 ThiruvadyWGS14	Dhananjay R. Thiruvady, M. Wallace, H. Gu, A. Schutt	A Lagrangian relaxation and ACO hybrid for resource constrained project scheduling with discounted cash flows	Yes	[587]	2014	J. Heuristics	34	19	18	1460	1658
BajestaniB13 BajestaniB13	Maliheh Aramon Bajestani, J. Christopher Beck	Scheduling a Dynamic Aircraft Repair Shop with Limited Repair Resources	Yes	[42]	2013	J. Artif. Intell. Res.	36	14	0	1260	1659
BegB13 BegB13	Mirza Omer Beg, Peter van Beek	A constraint programming approach for integrated spatial and temporal scheduling for clustered architectures	Yes	[75]	2013	ACM Trans. Embed. Comput. Syst.	23	1	28	1275	1660
HeinzSB13 HeinzSB13	S. Heinz, J. Schulz, J. Christopher Beck	Using dual presolving reductions to reformulate cumulative constraints	Yes	[296]	2013	Constraints An Int. J.	36	7	31	1345	1661
LombardiMB13 LombardiMB13	M. Lombardi, M. Milano, L. Benini	Robust Scheduling of Task Graphs under Execution Time Uncertainty	Yes	[409]	2013	IEEE Transactions on Computers	14	28	29	1385	1662
MenciaSV13 MenciaSV13	C. Mencia, María R. Sierra, R. Varela	Intensified iterative deepening A* with application to job shop scheduling	Yes	[436]	2013	Journal of Intelligent Manufacturing	11	9	43	1397	1663
OzturkTHO13 OzturkTHO13	C. Öztürk, S. Tunali, B. Hnich, M. Arslan Ornek	Balancing and scheduling of flexible mixed model assembly lines	Yes	[490]	2013	Constraints An Int. J.	36	31	44	1423	1664
SchuttFSW13 SchuttFSW13	A. Schutt, T. Feydy, Peter J. Stuckey, Mark G. Wallace	Solving RCPSP/max by lazy clause generation	Yes	[543]	2013	Journal of Scheduling	17	43	23	1447	1665
GuyonLPR12 GuyonLPR12	O. Guyon, P. Lemaire, Éric Pinson, D. Rivreau	Solving an integrated job-shop problem with human resource constraints	Yes	[273]	2012	Annals of Operations Research	25	32	25	1333	1666
HeinzSSW12 HeinzSSW12	S. Heinz, T. Schlechte, R. Stephan, M. Winkler	Solving steel mill slab design problems	Yes	[294]	2012	Constraints An Int. J.	12	10	9	1346	1667
LimtanyakulS12 LimtanyakulS12	K. Limtanyakul, U. Schwiegelshohn	Improvements of constraint programming and hybrid methods for scheduling of tests on vehicle prototypes	Yes	[395]	2012	Constraints An Int. J.	32	4	16	1381	1668
LombardiM12 LombardiM12	M. Lombardi, M. Milano	Optimal methods for resource allocation and scheduling: a cross-disciplinary survey	Yes	[407]	2012	Constraints An Int. J.	35	39	68	1383	1669
LombardiM12a LombardiM12a	M. Lombardi, M. Milano	A min-flow algorithm for Minimal Critical Set detection in Resource Constrained Project Scheduling	Yes	[406]	2012	Artificial Intelligence	10	3	13	1384	1670
MalapertCGJLR12 MalapertCGJLR12	A. Malapert, H. Cambazard, C. Guéret, N. Jussien, A. Langevin, L. Rousseau	An Optimal Constraint Programming Approach to the Open-Shop Problem	Yes	[423]	2012	INFORMS Journal on Computing	17	23	21	1391	1671
MenciaSV12 MenciaSV12	C. Mencia, María R. Sierra, R. Varela	Depth-first heuristic search for the job shop scheduling problem	Yes	[435]	2012	Annals of Operations Research	32	16	40	1396	1672
NovasH12 NovasH12	Juan M. Novas, Gabriela P. Henning	A comprehensive constraint programming approach for the rolling horizon-based scheduling of automated wet-etch stations	Yes	[478]	2012	Computers Chemical Engineering	17	17	15	1418	1673
TerekhovDOB12 TerekhovDOB12	D. Terekhov, Mustafa K. Dogru, U. Özen, J. Christopher Beck	Solving two-machine assembly scheduling problems with inventory constraints	Yes	[582]	2012	Computers Industrial Engineering	15	8	48	1458	1674
ZarandiB12 ZarandiB12	Mohammad M. Fazel-Zarandi, J. Christopher Beck	Using Logic-Based Benders Decomposition to Solve the Capacity- and Distance-Constrained Plant Location Problem	No	[214]	2012	INFORMS Journal on Computing	null	38	57	No	1675
BandaSC11 BandaSC11	Maria Garcia de la Banda, Peter J. Stuckey, G. Chu	Solving Talent Scheduling with Dynamic Programming	Yes	[171]	2011	INFORMS Journal on Computing	18	24	17	1262	1676
BartakS11 BartakS11	R. Barták, Miguel A. Salido	Constraint satisfaction for planning and scheduling problems	Yes	[57]	2011	Constraints An Int. J.	5	17	3	1266	1677
BeckFW11 BeckFW11	J. Christopher Beck, T. K. Feng, J. Watson	Combining Constraint Programming and Local Search for Job-Shop Scheduling	Yes	[66]	2011	INFORMS Journal on Computing	14	43	23	1271	1678
BeldiceanuCDP11 BeldiceanuCDP11	N. Beldiceanu, M. Carlsson, S. Demasse, E. Poder	New filtering for the <i>cumulative</i> constraint in the context of non-overlapping rectangles	Yes	[80]	2011	Annals of Operations Research	24	8	8	1277	1679

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BeniniLMR11 BeniniLMR11	L. Benini, M. Lombardi, M. Milano, M. Ruggiero	Optimal resource allocation and scheduling for the CELL BE platform	Yes	[90]	2011	Annals of Operations Research	27	18	16	1280	1680
CobanH11 CobanH11	E. Coban, John N. Hooker	Single-facility scheduling by logic-based Benders decomposition	Yes	[154]	2011	Annals of Operations Research	28	14	37	1299	1681
EdisO11a EdisO11a	Emrah B. Edis, I. Ozkarahan	A combined integer/constraint programming approach to a resource-constrained parallel machine scheduling problem with machine eligibility restrictions	No	[193]	2011	Engineering Optimization	null	43	37	No	1682
HachemiGR11 HachemiGR11	Nizar El Hachemi, M. Gendreau, L. Rousseau	A hybrid constraint programming approach to the log-truck scheduling problem	Yes	[274]	2011	Annals of Operations Research	16	32	19	1334	1683
HeckmanB11 HeckmanB11	I. Heckman, J. Christopher Beck	Understanding the behavior of Solution-Guided Search for job-shop scheduling	Yes	[291]	2011	Journal of Scheduling	20	0	22	1343	1684
KelbelH11 KelbelH11	J. Kelbel, Z. Hanzálek	Solving production scheduling with earliness/tardiness penalties by constraint programming	Yes	[343]	2011	Journal of Intelligent Manufacturing	10	12	14	1363	1685
KovacsB11 KovacsB11	A. Kovács, J. Christopher Beck	A global constraint for total weighted completion time for unary resources	Yes	[358]	2011	Constraints An Int. J.	24	4	26	1368	1686
KovacsK11 KovacsK11	A. Kovács, T. Kis	Constraint programming approach to a bilevel scheduling problem	Yes	[360]	2011	Constraints An Int. J.	24	3	24	1369	1687
SchausHMCMD11 SchausHMCMD11	P. Schaus, Pascal Van Hentenryck, J. Monette, C. Coffrin, L. Michel, Y. Deville	Solving Steel Mill Slab Problems with constraint-based techniques: CP, LNS, and CBLS	Yes	[533]	2011	Constraints An Int. J.	23	14	5	1443	1688
SchuttFSW11 SchuttFSW11	A. Schutt, T. Feydy, Peter J. Stuckey, Mark G. Wallace	Explaining the cumulative propagator	Yes	[542]	2011	Constraints An Int. J.	33	57	23	1446	1689
TopalogluO11 TopalogluO11	S. Topaloglu, I. Ozkarahan	A constraint programming-based solution approach for medical resident scheduling problems	Yes	[592]	2011	Computers Operations Research	10	46	24	1462	1690
TrojetHL11 TrojetHL11	M. Trojet, F. H'Mida, P. Lopez	Project scheduling under resource constraints: Application of the cumulative global constraint in a decision support framework	Yes	[604]	2011	Computers Industrial Engineering	7	11	17	1467	1691
BartakCS10 BartakCS10	R. Barták, O. Cepek, P. Surynek	Discovering implied constraints in precedence graphs with alternatives	Yes	[56]	2010	Annals of Operations Research	31	2	9	1265	1692
BartakSR10 BartakSR10	R. Barták, Miguel A. Salido, F. Rossi	New trends in constraint satisfaction, planning, and scheduling: a survey	Yes	[58]	2010	Knowl. Eng. Rev.	31	28	47	1267	1693
ChenGPSH10 ChenGPSH10	Y. Chen, Z. Guan, Y. Peng, X. Shao, M. Hasseb	Technology and system of constraint programming for industry production scheduling — Part I: A brief survey and potential directions	Yes	[147]	2010	Frontiers of Mechanical Engineering in China	10	2	32	1297	1694
LombardiM10a LombardiM10a	M. Lombardi, M. Milano	Allocation and scheduling of Conditional Task Graphs	Yes	[404]	2010	Artificial Intelligence	30	8	24	1382	1695
LombardiMRB10 LombardiMRB10	M. Lombardi, M. Milano, M. Ruggiero, L. Benini	Stochastic allocation and scheduling for conditional task graphs in multi-processor systems-on-chip	Yes	[410]	2010	Journal of Scheduling	31	24	41	1386	1696
LopesCSM10 LopesCSM10	Tony Minoru Tamura Lopes, André A. Ciré, Cid Carvalho de Souza, Arnaldo Vieira Moura	A hybrid model for a multiproduct pipeline planning and scheduling problem	Yes	[411]	2010	Constraints An Int. J.	39	31	18	1387	1697
NovasH10 NovasH10	Juan M. Novas, Gabriela P. Henning	Reactive scheduling framework based on domain knowledge and constraint programming	Yes	[477]	2010	Computers Chemical Engineering	20	48	19	1417	1698
ZeballosQH10 ZeballosQH10	L. Zeballos, O. Quiroga, Gabriela P. Henning	A constraint programming model for the scheduling of flexible manufacturing systems with machine and tool limitations	Yes	[658]	2010	Eng. Appl. Artif. Intell.	20	33	28	1483	1699
abs-1009-0347 abs-1009-0347	A. Schutt, T. Feydy, Peter J. Stuckey, Mark G. Wallace	Solving the Resource Constrained Project Scheduling Problem with Generalized Precedences by Lazy Clause Generation	Yes	[541]	2010	CoRR	37	0	0	1490	1700
BidotVLB09 BidotVLB09	J. Bidot, T. Vidal, P. Laborie, J. Christopher Beck	A theoretic and practical framework for scheduling in a stochastic environment	Yes	[94]	2009	Journal of Scheduling	30	58	20	1282	1701
BocewiczBB09 BocewiczBB09	G. Bocewicz, I. Bach, Zbigniew Antoni Banaszak	Logic-algebraic method based and constraints programming driven approach to AGVs scheduling	Yes	[101]	2009	Int. J. Intell. Inf. Database Syst.	19	0	0	1286	1702

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CarchraeB09 CarchraeB09	T. Carchrae, J. Christopher Beck	Principles for the Design of Large Neighborhood Search	Yes	[132]	2009	Journal of Mathematical Modelling and Algorithms	26	16	19	1294	1703
GarridoAO09 GarridoAO09	A. Garrido, M. Arangú, E. Onaindia	A constraint programming formulation for planning: from plan scheduling to plan generation	Yes	[229]	2009	Journal of Scheduling	30	5	14	1320	1704
Jans09 Jans09	R. Jans	Solving Lot-Sizing Problems on Parallel Identical Machines Using Symmetry-Breaking Constraints	Yes	[326]	2009	INFORMS Journal on Computing	24	59	73	1358	1705
MilanoW09 MilanoW09	M. Milano, M. Wallace	Integrating Operations Research in Constraint Programming	Yes	[443]	2009	Annals of Operations Research	40	34	46	1401	1706
OhrimenkoSC09 OhrimenkoSC09	O. Ohrimenko, Peter J. Stuckey, M. Codish	Propagation via lazy clause generation	Yes	[485]	2009	Constraints An Int. J.	35	127	15	1422	1707
RuggieroBBMA09 RuggieroBBMA09	M. Ruggiero, D. Bertozzi, L. Benini, M. Milano, A. Andrei	Reducing the Abstraction and Optimality Gaps in the Allocation and Scheduling for Variable Voltage/Frequency MPSoC Platforms	Yes	[527]	2009	IEEE Trans. Comput. Aided Des. Integr. Circuits Syst.	14	9	27	1439	1708
WuBB09 WuBB09	Christine Wei Wu, Kenneth N. Brown, J. Christopher Beck	Scheduling with uncertain durations: Modeling beta-robust scheduling with constraints	Yes	[645]	2009	Computers Operations Research	9	42	5	1475	1709
abs-0907-0939 abs-0907-0939	T. Petit, E. Poder	The Soft Cumulative Constraint	Yes	[501]	2009	CoRR	12	0	0	1489	1710
GarridoOS08 GarridoOS08	A. Garrido, E. Onaindia, Óscar Sapena	Planning and scheduling in an e-learning environment. A constraint-programming-based approach	Yes	[230]	2008	Eng. Appl. Artif. Intell.	11	22	7	1321	1711
KovacsB08 KovacsB08	A. Kovács, J. Christopher Beck	A global constraint for total weighted completion time for cumulative resources	Yes	[357]	2008	Eng. Appl. Artif. Intell.	7	5	14	1367	1712
LiW08 LiW08	H. Li, K. Womer	Scheduling projects with multi-skilled personnel by a hybrid MILP/CP benders decomposition algorithm	Yes	[388]	2008	Journal of Scheduling	18	113	31	1379	1713
LiessM08 LiessM08	O. Liess, P. Michelon	A constraint programming approach for the resource-constrained project scheduling problem	Yes	[390]	2008	Annals of Operations Research	12	22	14	1380	1714
MalikMB08 MalikMB08	Abid M. Malik, J. McInnes, Peter van Beek	Optimal Basic Block Instruction Scheduling for Multiple-Issue Processors Using Constraint Programming	Yes	[427]	2008	Int. J. Artif. Intell. Tools	18	15	8	1392	1715
MercierH08 MercierH08	L. Mercier, Pascal Van Hentenryck	Edge Finding for Cumulative Scheduling	Yes	[438]	2008	INFORMS Journal on Computing	21	32	5	1399	1716
Beck07 Beck07	J. Christopher Beck	Solution-Guided Multi-Point Constructive Search for Job Shop Scheduling	Yes	[64]	2007	J. Artif. Intell. Res.	29	34	0	1268	1717
BeckW07 BeckW07	J. Christopher Beck, N. Wilson	Proactive Algorithms for Job Shop Scheduling with Probabilistic Durations	Yes	[73]	2007	J. Artif. Intell. Res.	50	27	0	1273	1718
CorreaLR07 CorreaLR07	Ayoub Insa Corréa, A. Langevin, L. Rousseau	Scheduling and routing of automated guided vehicles: A hybrid approach	Yes	[159]	2007	Computers Operations Research	20	106	20	1301	1719
Hooker07 Hooker07	John N. Hooker	Planning and Scheduling by Logic-Based Benders Decomposition	Yes	[311]	2007	Operations Research	29	181	19	1350	1720
Rodriguez07 Rodriguez07	J. Rodriguez	A constraint programming model for real-time train scheduling at junctions	Yes	[522]	2007	Transportation Research Part B: Methodological	15	117	6	1435	1721
Simonis07 Simonis07	H. Simonis	Models for Global Constraint Applications	Yes	[561]	2007	Constraints An Int. J.	30	10	17	1452	1722
Hooker06 Hooker06	John N. Hooker	An Integrated Method for Planning and Scheduling to Minimize Tardiness	Yes	[310]	2006	Constraints An Int. J.	19	19	13	1349	1723
KhayatLR06 KhayatLR06	Ghada El Khayat, A. Langevin, D. Riopel	Integrated production and material handling scheduling using mathematical programming and constraint programming	Yes	[345]	2006	European Journal of Operational Research	15	84	14	1364	1724
MilanoW06 MilanoW06	M. Milano, M. Wallace	Integrating operations research in constraint programming	Yes	[442]	2006	4OR	45	18	46	1400	1725

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SadykovW06 SadykovW06	R. Sadykov, Laurence A. Wolsey	Integer Programming and Constraint Programming in Solving a Multimachine Assignment Scheduling Problem with Deadlines and Release Dates	Yes	[530]	2006	INFORMS Journal on Computing	9	45	6	1441	1726
SureshMOK06 SureshMOK06	S. Sundaram, V. Mani, S. N. Omkar, H. J. Kim	Divisible load scheduling in distributed system with buffer constraints: genetic algorithm and linear programming approach	Yes	[570]	2006	Int. J. Parallel Emergent Distributed Syst.	19	12	23	1456	1727
DemasseYAM05 DemasseYAM05	S. DemasseY, C. Artigues, P. Michelon	Constraint-Propagation-Based Cutting Planes: An Application to the Resource-Constrained Project Scheduling Problem	Yes	[177]	2005	INFORMS Journal on Computing	18	43	25	1304	1728
Hooker05 Hooker05	John N. Hooker	A Hybrid Method for the Planning and Scheduling	Yes	[308]	2005	Constraints An Int. J.	17	68	11	1348	1729
VilimBC05 VilimBC05	P. Vilím, R. Barták, O. Cepek	Extension of $O(n \log n)$ Filtering Algorithms for the Unary Resource Constraint to Optional Activities	Yes	[622]	2005	Constraints An Int. J.	23	21	5	1469	1730
ZeballosH05 ZeballosH05	L. Zeballos, Gabriela P. Henning	A Constraint Programming Approach to FMS Scheduling. Consideration of Storage and Transportation Resources	Yes	[657]	2005	Inteligencia Artif.	10	0	0	1482	1731
PoderBS04 PoderBS04	E. Poder, N. Beldiceanu, E. Sanlaville	Computing a lower approximation of the compulsory part of a task with varying duration and varying resource consumption	Yes	[503]	2004	European Journal of Operational Research	16	7	8	1428	1732
BeckR03 BeckR03	J. Christopher Beck, P. Refalo	A Hybrid Approach to Scheduling with Earliness and Tardiness Costs	Yes	[70]	2003	Annals of Operations Research	23	29	0	1272	1733
HookerO03 HookerO03	John N. Hooker, G. Ottosson	Logic-based Benders decomposition	Yes	[315]	2003	Mathematical Programming	28	317	0	1352	1734
KuchcinskiW03 KuchcinskiW03	K. Kuchcinski, C. Wolinski	Global approach to assignment and scheduling of complex behaviors based on HCDG and constraint programming	Yes	[368]	2003	J. Syst. Archit.	15	19	18	1373	1735
Laborie03 Laborie03	P. Laborie	Algorithms for propagating resource constraints in AI planning and scheduling: Existing approaches and new results	Yes	[371]	2003	Artificial Intelligence	38	128	10	1374	1736
Tsang03 Tsang03	Edward P. K. Tsang	Constraint Based Scheduling: Applying Constraint Programming to Scheduling Problems	Yes	[605]	2003	Journal of Scheduling	2	1	0	1468	1737
HarjunkskiG02 HarjunkskiG02	I. Harjunkski, Ignacio E. Grossmann	Decomposition techniques for multistage scheduling problems using mixed-integer and constraint programming methods	Yes	[280]	2002	Computers Chemical Engineering	20	169	11	1339	1738
LorigeonBB02 LorigeonBB02	T. Lorigeon, J. Billaut, J. Bouquard	A dynamic programming algorithm for scheduling jobs in a two-machine open shop with an availability constraint	Yes	[413]	2002	Journal of the Operational Research Society	8	22	0	1389	1739
MilanoORT02 MilanoORT02	M. Milano, G. Ottosson, P. Refalo, Erlendur S. Thorsteinsson	The Role of Integer Programming Techniques in Constraint Programming's Global Constraints	No	[441]	2002	INFORMS Journal on Computing	null	14	31	No	1740
RodriguezDG02 RodriguezDG02	J. Rodriguez, X. Delorme, X. Gandibleux	Railway infrastructure saturation using constraint programming approach	Yes	[521]	2002	Computers in Railways VIII	10	0	0	1436	1741
Timpe02 Timpe02	C. Timpe	Solving planning and scheduling problems with combined integer and constraint programming	Yes	[590]	2002	OR Spectr.	18	42	0	1461	1742
JainG01 JainG01	V. Jain, Ignacio E. Grossmann	Algorithms for Hybrid MILP/CP Models for a Class of Optimization Problems	Yes	[325]	2001	INFORMS Journal on Computing	19	279	23	1356	1743
MartinPY01 MartinPY01	F. Martin, A. Pinkney, X. Yu	Cane Railway Scheduling via Constraint Logic Programming: Labelling Order and Constraints in a Real-Life Application	Yes	[429]	2001	Annals of Operations Research	17	11	0	1393	1744
Mason01 Mason01	Andrew J. Mason	Elastic Constraint Branching, the Wedelin/Carmen Lagrangian Heuristic and Integer Programming for Personnel Scheduling	Yes	[431]	2001	Annals of Operations Research	38	5	0	1394	1745
ArtiguesR00 ArtiguesR00	C. Artigues, F. Roubellat	A polynomial activity insertion algorithm in a multi-resource schedule with cumulative constraints and multiple modes	Yes	[33]	2000	European Journal of Operational Research	20	84	3	1257	1746

Table 5: Works from bibtex (Total 274)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
BaptisteP00 BaptisteP00	P. Baptiste, Claude Le Pape	Constraint Propagation and Decomposition Techniques for Highly Disjunctive and Highly Cumulative Project Scheduling Problems	Yes	[49]	2000	Constraints An Int. J.	21	46	0	1264	1747
BeckF00 BeckF00	J. Christopher Beck, Mark S. Fox	Dynamic problem structure analysis as a basis for constraint-directed scheduling heuristics	Yes	[68]	2000	Artificial Intelligence Constraints An Int. J.	51	24	19	1269	1748
HeipckeCCS00 HeipckeCCS00	S. Heipcke, Y. Colombani, Cristina C. B. Cavalcante, Cid C. de Souza	Scheduling under Labour Resource Constraints	Yes	[299]	2000	Constraints An Int. J.	8	5	0	1347	1749
KorbaaYG00 KorbaaYG00	O. Korbaa, P. Yim, J. Gentina	Solving Transient Scheduling Problems with Constraint Programming	Yes	[354]	2000	Eur. J. Control	10	7	4	1366	1750
LopezAKYG00 LopezAKYG00	P. Lopez, H. Alla, O. Korbaa, P. Yim, J. Gentina	Discussion on: 'Solving Transient Scheduling Problems with Constraint Programming' by O. Korbaa, P. Yim, and J.-C. Gentina	Yes	[412]	2000	Eur. J. Control	4	0	0	1388	1751
SakkoutW00 SakkoutW00	Hani El Sakkout, M. Wallace	Probe Backtrack Search for Minimal Perturbation in Dynamic Scheduling	Yes	[531]	2000	Constraints An Int. J.	30	73	0	1442	1752
SchildW00 SchildW00	K. Schild, J. Würtz	Scheduling of Time-Triggered Real-Time Systems	Yes	[534]	2000	Constraints An Int. J.	23	23	0	1444	1753
SimonisCK00 SimonisCK00	H. Simonis, P. Charlier, P. Kay	Constraint Handling in an Integrated Transportation Problem	Yes	[562]	2000	IEEE Intell. Syst.	7	11	5	1453	1754
SourdN00 SourdN00	F. Sourd, W. Nuijten	Multiple-Machine Lower Bounds for Shop-Scheduling Problems	Yes	[565]	2000	INFORMS Journal on Computing	12	7	14	1454	1755
TorresL00 TorresL00	P. Torres, P. Lopez	On Not-First/Not-Last conditions in disjunctive scheduling	Yes	[593]	2000	European Journal of Operational Research	12	26	13	1463	1756
BensanaLV99 BensanaLV99	E. Bensana, M. Lemaître, G. Verfaillie	Earth Observation Satellite Management	Yes	[91]	1999	Constraints An Int. J.	7	99	0	1281	1757
JainM99 JainM99	A. Jain, S. Meeran	Deterministic job-shop scheduling: Past, present and future	Yes	[324]	1999	European Journal of Operational Research	45	490	150	1357	1758
BeckF98 BeckF98	J. Christopher Beck, Mark S. Fox	A Generic Framework for Constraint-Directed Search and Scheduling	Yes	[67]	1998	AI Mag.	30	0	0	1270	1759
BelhadjiI98 BelhadjiI98	S. Belhadji, A. Isli	Temporal Constraint Satisfaction Techniques in Job Shop Scheduling Problem Solving	Yes	[83]	1998	Constraints An Int. J.	9	3	0	1278	1760
NuijtenP98 NuijtenP98	W. Nuijten, Claude Le Pape	Constraint-Based Job Shop Scheduling with \sc Ilog Scheduler	Yes	[481]	1998	J. Heuristics	16	42	0	1421	1761
PapaB98 PapaB98	Claude Le Pape, P. Baptiste	Resource Constraints for Preemptive Job-shop Scheduling	Yes	[494]	1998	Constraints An Int. J.	25	14	0	1425	1762
Darby-DowmanLMZ97 Darby-DowmanLMZ97	K. Darby-Dowman, J. Little, G. Mitra, M. Zaffalon	Constraint Logic Programming and Integer Programming Approaches and Their Collaboration in Solving an Assignment Scheduling Problem	Yes	[164]	1997	Constraints An Int. J.	20	28	5	1303	1763
FalaschiGMP97 FalaschiGMP97	M. Falaschi, M. Gabbrielli, K. Marriott, C. Palamidessi	Constraint Logic Programming with Dynamic Scheduling: A Semantics Based on Closure Operators	Yes	[209]	1997	Inf. Comput.	27	10	9	1313	1764
LammaMM97 LammaMM97	E. Lamma, P. Mello, M. Milano	A distributed constraint-based scheduler	Yes	[379]	1997	Artif. Intell. Eng.	15	11	7	1377	1765
Zhou97 Zhou97	J. Zhou	A Permutation-Based Approach for Solving the Job-Shop Problem	Yes	[665]	1997	Constraints An Int. J.	29	14	0	1486	1766
BlazewiczDP96 BlazewiczDP96	J. Błażewicz, W. Domschke, E. Pesch	The job shop scheduling problem: Conventional and new solution techniques	Yes	[126]	1996	European Journal of Operational Research	33	344	127	1283	1767
NuijtenA96 NuijtenA96	W. Nuijten, E. Aarts	A computational study of constraint satisfaction for multiple capacitated job shop scheduling	Yes	[482]	1996	European Journal of Operational Research	16	65	6	1420	1768
Wallace96 Wallace96	M. Wallace	Practical Applications of Constraint Programming	Yes	[627]	1996	Constraints An Int. J.	30	87	55	1471	1769

Table 5: Works from bibtex (Total 274)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
BeldiceanuC94 BeldiceanuC94	N. Beldiceanu, E. Contejean	Introducing Global Constraints in CHIP	Yes	[78]	1994	Mathematical and Computer Mod- elling	27	167	8	1276	1770
Pape94 Pape94	Claude Le Pape	Implementation of resource constraints in ILOG SCHEDULE: a library for the development of constraint-based scheduling systems	Yes	[492]	1994	Intelligent Systems Engineering	34	98	0	1426	1771
AggounB93 AggounB93	A. Aggoun, N. Beldiceanu	Extending CHIP in order to solve complex scheduling and placement problems	Yes	[9]	1993	Mathematical and Computer Mod- elling	17	187	11	1252	1772
Tay92 Tay92	David B. H. Tay	COPS: A Constraint Programming Approach to Resource-Limited Project Scheduling	No	[580]	1992	Comput. J.	null	0	0	No	1773
DincbasSH90 DincbasSH90	M. Dincbas, H. Simonis, Pascal Van Hentenryck	Solving Large Combinatorial Problems in Logic Programming	Yes	[185]	1990	J. Log. Program.	19	86	9	1305	1774

3.2 Extracted Concepts

Table 6: Automatically Extracted ARTICLE Properties (Requires Local Copy)

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
AbohashimaEG21 [2]	14	resource, setup-time, machine, scheduling, order, cmax, transportation	parallel machine	cycle	Python	Gurobi			real-world, generated instance, github		1024	1554
AbreuAPNM21 [167]	21	make-span, open-shop, order, job, resource, machine, preempt, multi-agent, release-date, cmax, tardiness, scheduling, completion-time, setup-time, no-wait, task, job-shop, distributed, precedence, flow-shop	parallel machine, OSSP, single machine, Open Shop Scheduling Problem	noOverlap, cycle	Python, C++	Cplex	automotive, medical, patient	oil industry	benchmark, generated instance, real-world		1025	1555
AbreuN22 [168]	20	make-span, transportation, flow-time, distributed, resource, job-shop, flow-shop, batch process, cmax, preempt, order, tardiness, inventory, scheduling, completion-time, machine, setup-time, job, task, no-wait, open-shop	single machine, Open Shop Scheduling Problem, OSSP	cumulative, noOverlap, cycle	Python	Cplex	medical	chips industry	real-world, benchmark		1001	1531
AbreuNP23 [169]	20	scheduling, order, make-span, completion-time, tardiness, earliness, distributed, job-shop, flow-shop, resource, cmax, machine, job, blocking constraint, setup-time, preempt, transportation, no-wait, open-shop	OSSP, parallel machine, Open Shop Scheduling Problem	noOverlap, Blocking constraint	Python	Cplex, OPL	medical	oil industry	real-world, benchmark	time-tabling	974	1504
AbreuPNF23 [3]	12	job, lazy clause generation, scheduling, distributed, job-shop, due-date, machine, make-span, no-wait, flow-shop, completion-time, setup-time, open-shop, tardiness, order, earliness, preempt, transportation, resource	RCPSP, OSSP, parallel machine, Open Shop Scheduling Problem	noOverlap, cumulative, disjunctive	Python	Cplex, OPL	medical, robot		real-life, benchmark, real-world	NEH	975	1505
Adelgren2023 [7]	12	job-shop, transportation, setup-time, preempt, order, inventory, batch process, distributed, resource, completion-time, scheduling, machine, job, re-scheduling, task, make-span, release-date, sequence dependent setup	parallel machine	disjunctive		Gurobi, Cplex	pipeline, drone, crew-scheduling, aircraft, operating room		generated instance, benchmark, real-life, github, supplementary material		976	1506
AfsarVPG23 [8]	14	transportation, make-span, resource, job, precedence, task, setup-time, job-shop, due-date, machine, activity, flow-shop, completion-time, open-shop, order, scheduling, preempt		disjunctive		Cplex			real-life, supplementary material, benchmark, real-world		977	1507

Table 6: Automatically Extracted ARTICLE Properties (Requires Local Copy)

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
AggounB93 [9]	17	task, job, due-date, job-shop, flow-shop, resource, machine, precedence, order, activity, scheduling		Disjunctive constraint, bin-packing, Among constraint, cumulative, Cardinality constraint, circuit, Arithmetic constraint, disjunctive	Prolog	OPL, CHIP	perfect-square, rectangle-packing		real-world		1242	1772
AkramNHRSA23 [13]	16	resource, completion-time, scheduling, machine, task, preempt, order, distributed		cycle, bin-packing	Python	OR-Tools	medical, agriculture		benchmark	GRASP	978	1508
AlfieriGPS23 [15]	13	flow-shop, job, flow-time, completion-time, Benders Decomposition, precedence, earliness, scheduling, machine, transportation, setup-time, order, tardiness, make-span, distributed, no-wait, job-shop, resource, inventory	single machine, parallel machine		Java	Cplex	surgery, patient		benchmark	NEH	979	1509
AntunesABD20 [20]	31	precedence, earliness, scheduling, transportation, order, distributed, lateness, activity, due-date, re-scheduling, task, Benders Decomposition		bin-packing		Cplex		electricity industry	real-world, industrial partner		1039	1569
ArkhipovBL19 [25]	10	scheduling, machine, job, cmax, task, completion-time, make-span, release-date, precedence, job-shop, preempt, order, lateness, resource	psplib, parallel machine, RCPSP	cycle, Cumulatives constraint, cumulative, disjunctive		Z3			benchmark	sweep, time-tabling	1058	1588
ArtiguesR00 [33]	20	due-date, no preempt, job-shop, transportation, lateness, precedence, make-span, order, job, activity, machine, preempt, release-date, cmax, scheduling, completion-time, re-scheduling, resource, setup-time, earliness	RCMPSP, RCPSP	cycle, disjunctive, cumulative							1216	1746
AstrandJZ20 [38]	13	open-shop, task, precedence, flow-shop, make-span, order, job, activity, scheduling, completion-time, resource, machine, job-shop, re-scheduling, setup-time, due-date	parallel machine	disjunctive, alldifferent, Disjunctive constraint, cycle	C++	Gecode	robot	potash industry, mining industry, mineral industry	benchmark, real-life, real-world		1040	1570
BadicaBI20 [39]	17	manpower, resource, precedence, scheduling, distributed, task, machine, activity, make-span, completion-time, order	psplib	Arithmetic constraint, bin-packing, cycle, Reified constraint	Prolog	Gecode, ECLiPSe			real-world, benchmark		1041	1571

Table 6: Automatically Extracted ARTICLE Properties (Requires Local Copy)

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
BajestaniB13 [42]	36	re-scheduling, Benders Decomposition, scheduling, machine, transportation, order, tardiness, make-span, precedence, earliness, job-shop, resource, setup-time, preempt, inventory, due-date, job	single machine, parallel machine	IlloPulse, Cardinality constraint, cumulative, IlloAlwaysIn, GCC constraint, alwaysIn, circuit		Cplex	railway, aircraft				1129	1659
BajestaniB15 [43]	16	completion-time, Benders Decomposition, scheduling, machine, flow-time, order, tardiness, make-span, precedence, sequence dependent setup, job-shop, resource, activity, setup-time, preempt, due-date, distributed, flow-shop, job	single machine	disjunctive, cumulative, Disjunctive constraint, circuit		Cplex	railway, semiconductor, robot	semiconductor industry	real-world		1110	1640
BandaSC11 [171]	18	precedence, order, scheduling, task				Ilog Solver			benchmark, CSPlib, random instance		1146	1676
BaptisteB18 [46]	10	resource, machine, preempt, lazy clause generation, scheduling, task, manpower, precedence, make-span, order, job	parallel machine, psplib, RCPSP	cumulative, bin-packing		CHIP				time-tabling, edge-finding, edge-finder	1074	1604
BaptisteP00 [49]	21	resource, preempt, cmax, job-shop, scheduling, re-scheduling, due-date, task, precedence, release-date, flow-shop, make-span, order, job, activity	RCPSP	Disjunctive constraint, disjunctive, cumulative	C++	Claire, CHIP, Ilog Scheduler			benchmark	energetic reasoning, edge-finding, edge-finder	1217	1747
BartakCS10 [56]	31	resource, scheduling, job, precedence, task, setup-time, job-shop, machine, activity, flow-shop, order	RCPSP	disjunctive	Prolog	SICStus			real-life, benchmark, real-world		1162	1692
BartakS11 [57]	5	scheduling, task, multi-agent, distributed, resource, order		cumulative		OPL		software industry	random instance, real-world, real-life		1147	1677
BartakSR10 [58]	31	scheduling, preempt, make-span, job, precedence, release-date, distributed, task, job-shop, due-date, machine, activity, flow-shop, temporal constraint reasoning, completion-time, order, cmax, open-shop, tardiness, resource, lateness, multi-agent	TCSP, single machine, Temporal Constraint Satisfaction Problem	Disjunctive constraint, cumulative, disjunctive		CPO, Choco Solver, OPL	robot		real-life, real-world	not-last, edge-finding, sweep, not-first	1163	1693
Beck07 [64]	29	order, scheduling, machine, job-shop, tardiness, activity, flow-shop, precedence, make-span, resource, job		Disjunctive constraint, disjunctive		Ilog Scheduler			benchmark		1187	1717

Table 6: Automatically Extracted ARTICLE Properties (Requires Local Copy)

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
BeckF00 [68]	51	transportation, precedence, job-shop, due-date, machine, preempt, activity, inventory, release-date, resource, task, job, order, make-span, scheduling	single machine	ma-	cumulative, disjunctive, Disjunctive constraint, Cardinality constraint		robot		real-world, benchmark	not-last, edge-finding, not-first	1218	1748
BeckF98 [67]	30	precedence, job-shop, due-date, machine, preempt, re-scheduling, multi-agent, activity, distributed, inventory, release-date, resource, task, tardiness, job, order, make-span, scheduling	single machine	ma-	circuit, cumulative, disjunctive	Prolog	robot		real-world, benchmark	edge-finding	1229	1759
BeckFW11 [66]	14	cmax, resource, job-shop, precedence, preempt, order, scheduling, completion-time, machine, job, make-span			disjunctive, table constraint, cumulative	C++	Ilog Scheduler		benchmark, real-world		1148	1678
BeckR03 [70]	23	job-shop, due-date, machine, re-scheduling, completion-time, activity, inventory, earliness, flow-shop, release-date, resource, tardiness, job, order, make-span, scheduling, flow-time, precedence			disjunctive		Ilog Scheduler, Ilog Solver, Cplex	hoist	benchmark	edge-finder	1203	1733
BeckW07 [73]	50	job-shop, machine, preempt, re-scheduling, activity, distributed, flow-shop, no preempt, resource, task, tardiness, job, order, make-span, scheduling, flow-time, precedence	RCPSP, single machine		Balance constraint	con-	Ilog Scheduler	robot	benchmark	edge-finder, edge-finding	1188	1718
Bedhief21 [74]	7	setup-time, preempt, no-wait, scheduling, make-span, completion-time, release-date, no preempt, sequence dependent setup, due-date, flow-shop, transportation, machine, job, order, tardiness	single machine, parallel machine, HFS		noOverlap		OPL, Cplex	robot, medical	real-life		1026	1556
BegB13 [75]	23	scheduling, machine, task, completion-time, re-scheduling, resource, order, distributed	TMS		cycle		pipeline		benchmark		1130	1660
BeldiceanuC94 [78]	27	task, precedence, resource, order, completion-time, scheduling, machine			circuit, Element constraint, Among constraint, Atmost constraint, cumulative, diffn, Arithmetic constraint, alldifferent, cycle, bin-packing	Prolog	OPL, CHIP, CPO, OZ	car manufacturing, pipeline	real-world, real-life, benchmark		1240	1770
BeldiceanuCDP11 [80]	24	cmax, preempt, task, resource, order, scheduling			geost, disjunctive, diffn, cumulative, bin-packing	Prolog	SICStus, CHIP	rectangle-packing, perfect-square	benchmark	sweep, edge-finding, energetic reasoning	1149	1679

Table 6: Automatically Extracted ARTICLE Properties (Requires Local Copy)

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
BelhadjiI98 [83]	9	precedence, release-date, order, job, scheduling, resource, machine, preempt, due-date, job-shop, task	JSSP, Temporal Constraint Satisfaction Problem, TCSP	Disjunctive constraint, disjunctive					real-life		1230	1760
BenediktMH20 [86]	19	job, re-scheduling, task, scheduling, machine, preempt, order, job-shop	single machine	endBeforeStart, noOverlap		Gurobi	robot		benchmark, random instance, github, generated instance		1042	1572
BeniniLMR11 [90]	27	resource, Benders Decomposition, task, precedence, make-span, order, activity, machine, preempt, release-date, tardiness, scheduling, re-scheduling	SCC, single machine	table constraint, circuit, cumulative		Ilog Scheduler, Cplex	pipeline		real-world, benchmark, instance generator		1150	1680
BensanaLV99 [91]	7	order		cycle		Ilog Solver, Cplex	satellite, earth observation, robot		benchmark		1227	1757
BidotVLB09 [94]	30	task, job-shop, due-date, machine, activity, inventory, tardiness, order, re-scheduling, make-span, resource, job, precedence, release-date, scheduling, distributed	JSSP	cumulative, disjunctive	C++	Ilog Scheduler, OPL	robot		real-world, real-life	edge-finder, edge-finding	1171	1701
BlazewiczDP96 [126]	33	distributed, due-date, inventory, preempt, make-span, task, job-shop, precedence, setup-time, release-date, resource, flow-shop, no-wait, activity, job, order, completion-time, scheduling, machine, lateness	parallel machine, single machine	disjunctive, cumulative, cycle, Disjunctive constraint		OPL, CHIP	robot		benchmark	energetic reasoning, edge-finding	1237	1767
BlomBPS14 [99]	19	task, distributed, resource, transportation, scheduling, Benders Decomposition, precedence, order		disjunctive		Cplex	offshore	mineral industry	industry partner, benchmark		1121	1651
BlomPS16 [100]	26	re-scheduling, order, scheduling, machine, task, activity, transportation, distributed, resource, precedence, producer/consumer, batch process		disjunctive		Cplex	pipeline, offshore	process industry	industry partner, benchmark		1098	1628
BocewiczBB09 [101]	19	precedence, scheduling, machine, transportation, order, tardiness, distributed, job-shop, resource, multi-agent, job, task, completion-time		cycle			robot			not-last	1172	1702
Bonfietti16 [106]	13	task, distributed, precedence, order, activity, scheduling, resource		disjunctive, cumulative, circuit	C++		pipeline		benchmark		1099	1629

Table 6: Automatically Extracted ARTICLE Properties (Requires Local Copy)

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
BonfiettiLBM14 [109]	28	scheduling, order, make-span, precedence, task, buffer-capacity, job, resource, activity, distributed, machine, job-shop	RCPSP	circuit, cumulative, cycle		Ilog Solver	pipeline, hoist, medical, robot		benchmark, real-world, generated instance, industrial instance	time-tabling, sweep	1122	1652
BorghesiBLMB18 [116]	13	job, re-scheduling, distributed, scheduling, order, make-span, resource, activity, task, machine		cumulative, cycle			super-computer		benchmark, real-life		1075	1605
BourreauGGLT22 [119]	19	re-scheduling, scheduling, order, manpower, no-wait, precedence, transportation, job, resource		disjunctive, diffn, Disjunctive constraint, alldifferent, cycle	C++	Cplex, Choco Solver, CHIP	crew-scheduling, nurse	printing industry	real-world, benchmark		1002	1532
BridiBLMB16 [121]	14	make-span, job, scheduling, resource, machine, tardiness, re-scheduling, order, activity, distributed		circuit, cycle, cumulative			medical, super-computer		real-life, real-world		1100	1630
Caballero23 [128]	1	resource, scheduling	RCPSP								980	1510
CampeauG22 [129]	18	task, activity, make-span, completion-time, precedence, order, resource, job, scheduling	RCPSP, RCPSPDC	noOverlap, endBeforeStart, cumulative, alwaysIn, cycle	Python	Cplex		mining industry	real-life, real-world	edge-finding	1003	1533
CarchraeB09 [132]	26	make-span, order, job, machine, tardiness, scheduling, resource, earliness, task, job-shop, precedence		cumulative	C++	Ilog Scheduler, OPL			benchmark, real-world	sweep	1173	1703
CauwelaertDS20 [143]	19	completion-time, job, resource, activity, machine, job-shop, scheduling, order, batch process, sequence dependent setup, make-span, preempt, setup-time, precedence, transportation, task		cycle, Cardinality constraint, disjunctive, cumulative	Java		container terminal, patient		benchmark, real-life, bit-bucket, generated instance	edge-finding, not-last, not-first	1043	1573
CauwelaertLS18 [142]	36	scheduling, order, task, job, resource, activity, machine, job-shop	psplib, RCPSP	table constraint, circuit, alldifferent, bin-packing, disjunctive, cumulative, Reified constraint, GCC constraint	Java, Prolog	OPL, Gecode, CHIP			benchmark, bit-bucket	not-last, not-first, energetic reasoning, edge-finding, time-tabling, sweep	1076	1606
ChenGPSH10 [147]	10	activity, make-span, job, precedence, Benders Decomposition, job-shop, due-date, open-shop, completion-time, order, lateness, producer/consumer, re-scheduling, resource, scheduling, preempt, manpower, task, transportation, machine	JSSP	Disjunctive constraint, cumulative, disjunctive, cycle, diffn	C++	Ilog Scheduler, Ilog Solver		semiprocess industry, chemistry industry, process industry, chemical industry	real-life	not-last, energetic reasoning, time-tabling	1164	1694
CireCH16 [151]	12	tardiness, scheduling, Benders Decomposition, task, order, make-span, resource		cumulative		Cplex					1101	1631

Table 6: Automatically Extracted ARTICLE Properties (Requires Local Copy)

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
CobanH11 [154]	28	completion-time, machine, job, task, release-date, make-span, distributed, resource, tardiness, Benders Decomposition, preempt, due-date, re-scheduling, order, scheduling	single machine	cumulative, circuit, noOverlap		OPL, Cplex			random instance	time-tabling	1151	1681
ColT22 [161]	19	no preempt, due-date, distributed, preempt, scheduling, machine, batch process, open-shop, job-shop, lateness, task, tardiness, order, transportation, flow-shop, completion-time, precedence, make-span, resource, job, setup-time	PMSP, Open Shop Scheduling Problem, FJS, single machine, JSSP, OSSP, parallel machine	alldifferent, cumulative, circuit, noOverlap, Arithmetic constraint, disjunctive	C++, Java	OR-Tools, MiniZinc, CPO, Cplex, OPL	semiconductor oven scheduling, robot		generated instance, supplementary material, github, benchmark, real-life, real-world		1004	1534
CorreaLR07 [159]	20	task, machine, make-span, precedence, Benders Decomposition, order, transportation, release-date, scheduling	parallel machine	disjunctive		Cplex, OPL, Choco Solver, Ilog Solver	container terminal	heavy industry	real-world		1189	1719
CzerniachowskaWZ23 [160]	14	make-span, scheduling, setup-time, transportation, flow-shop, activity, machine, order, completion-time, task, job, resource, job-shop	JSSP, PTC, parallel machine	endBeforeStart, noOverlap		CPO, OPL, Cplex	robot, automotive	manufacturing industry, pharmaceutical industry, automotive industry	benchmark, Roadev, real-world		981	1511
Darby-DowmanLMZ97 [164]	20	scheduling, order, make-span, resource, machine, task	MGAP, single machine	span constraint, disjunctive, Disjunctive constraint, Element constraint	Prolog	ECLiPSe, Cplex	aircraft, pipeline		real-life, real-world, benchmark		1233	1763
DemasseAM05 [177]	18	precedence, job-shop, preempt, order, resource, activity, scheduling, machine, job, task, completion-time, make-span, release-date	psplib, RCPSP, single machine	cumulative, disjunctive, cycle		Cplex			benchmark	edge-finding, energetic reasoning	1198	1728
DincbasSH90 [185]	19	task, job-shop, distributed, precedence, order, job, machine, scheduling, resource		circuit, Disjunctive constraint, disjunctive	Prolog	CHIP, OPL			real-life		1244	1774
DoulabiRP16 [191]	17	distributed, order, scheduling, resource, machine, transportation	single machine	cycle, bin-packing, Element constraint		Cplex, OPL	medical, patient, nurse, surgery, operating room, steel mill, rectangle-packing, crew-scheduling, robot		real-world, generated instance		1102	1632

Table 6: Automatically Extracted ARTICLE Properties (Requires Local Copy)

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
ElciOH22 [196]	21	resource, due-date, order, tardiness, scheduling, Benders Decomposition, job, task, make-span, transportation, machine, distributed	single machine	cumulative, disjunctive	Julia	Cplex	surgery, patient, crew-scheduling, aircraft, operating room		benchmark, random instance, real-life		1005	1535
EmdeZD22 [200]	30	flow-time, distributed, resource, tardiness, inventory, scheduling, Benders Decomposition, completion-time, precedence, batch process, task, open-shop, order, machine, job, no-wait, job-shop, release-date, make-span, transportation	single machine, parallel machine	noOverlap, bin-packing	C	Cplex	automotive, pipeline, drone, semiconductor, yard crane	automotive industry	random instance, github		1006	1536
EscobetPQPRA19 [202]	10	task, release-date, job, resource, activity, distributed, machine, job-shop, scheduling, order, batch process, due-date		circuit, cycle, alternative constraint, noOverlap		OPL, Cplex	energy-price, dairy	dairy industry, food industry, manufacturing industry			1060	1590
EtminaniesfahaniGNMS22	10	job, order, job-shop, preempt, machine, lazy clause generation, earliness, precedence, cmax, open-shop, resource, tardiness, activity, make-span, task, scheduling	RCPSP, psplib, parallel machine		Python	OR-Tools, Cplex	crew-scheduling, aircraft		real-world		1007	1537
EvenSH15a [205]	16	distributed, resource, transportation, machine, Benders Decomposition, order, preempt, scheduling, completion-time, task		cumulative, disjunctive, Disjunctive constraint	Java	Choco Solver, OPL	emergency service		real-world, real-life	sweep	1111	1641
FahimiOQ18 [207]	22	completion-time, batch process, open-shop, order, lateness, preempt, sequence dependent setup, resource, job, precedence, lazy clause generation, scheduling, distributed, task, setup-time, job-shop, due-date, machine, make-span	psplib, RCPSP	AllDiff constraint, cumulative, disjunctive, Disjunctive constraint, alldifferent, Cumulatives constraint		Choco Solver			benchmark, random instance	time-tabling, sweep, edge-finding, not-first, not-last	1077	1607
FalaschiGMP97 [209]	27	order, scheduling		Arithmetic constraint	Prolog						1234	1764
FallahiAC20 [210]	18	order, resource, scheduling, transportation, task		cycle		OR-Tools	nurse, robot, medical, container terminal		github, real-life	sweep	1044	1574
FanXG21 [211]	15	flow-time, tardiness, job, order, batch process, machine, completion-time, distributed, precedence, setup-time, job-shop, due-date, no preempt, preempt, earliness, task, flow-shop, resource, make-span, scheduling	single machine, parallel machine	cycle	Python, Java	Cplex, ECLiPSe, Gurobi	semiconductor	manufacturing industry	benchmark	max-flow	1028	1558

Table 6: Automatically Extracted ARTICLE Properties (Requires Local Copy)

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
FarsiTM22 [212]	14	completion-time, tardiness, earliness, distributed, task, resource, continuous-process, re-scheduling, no-wait, scheduling, Benders Decomposition, make-span		alldifferent, circuit		Cplex	physician, patient, operating room, surgery, robot, medical, nurse		supplementary material	time-tabling	1008	1538
Fatemi-AnarakiTFV23 [213]	15	machine, cmax, resource, no-wait, order, completion-time, scheduling, job, transportation, setup-time, re-scheduling, distributed, job-shop, task, make-span, multi-agent	parallel machine, single machine	bin-packing, circuit, disjunctive, cycle	Python	Cplex, OPL	electroplating, semiconductor, COVID, robot, hoist	food industry	github, real-world, random instance	time-tabling	983	1513
FetgoD22 [215]	32	precedence, cmax, preempt, lazy clause generation, order, scheduling, completion-time, task, make-span, resource	RCPSP, CuSP	cumulative	Java, Python	CHIP, Choco Solver			benchmark, real-world	edge-finder, time-tabling, not-first, not-last, energetic reasoning, edge-finding, sweep	1009	1539
ForbesHJST24 [218]	15	job-shop, order, distributed, resource, Benders Decomposition, scheduling, machine, job, re-scheduling, task, make-span, release-date		cumulative	Python	Gurobi, OPL	emergency service, surgery, patient, operating room		benchmark, real-life, github		971	1501
GarridoAO09 [229]	30	scheduling, resource, task, re-scheduling, precedence, make-span, order		disjunctive	Java	OPL, CPO, Choco Solver			benchmark		1174	1704
GarridoOS08 [230]	11	scheduling, resource, task, make-span, order, activity, machine			Java, C	CPO, Choco Solver			real-world		1181	1711
GedikKEK18 [235]	11	resource, job, scheduling, task, machine, make-span, completion-time, cmax, setup-time, due-date, tardiness, order, preempt, sequence dependent setup, transportation	single machine, parallel machine, PMSP	noOverlap, cumulative		Cplex	nurse, medical	manufacturing industry	benchmark		1078	1608
GoelSHFS15 [250]	12	precedence, inventory, setup-time, activity, order, resource, scheduling, task, transportation, machine		noOverlap, alwaysEqual constraint, alwaysIn, cumulative, disjunctive		OPL, Cplex, CPO	pipeline	gas industry, transportation industry			1112	1642
GokgurHO18 [251]	17	task, setup-time, job-shop, due-date, machine, activity, flow-shop, completion-time, order, cmax, tardiness, resource, earliness, scheduling, preempt, transportation, make-span, job, precedence, release-date	parallel machine, single machine	alternative constraint, cumulative, disjunctive, Channeling constraint, Disjunctive constraint		OPL, CHIP	robot, semiconductor		real-world, real-life	edge-finding, energetic reasoning, not-first, not-last	1079	1609

Table 6: Automatically Extracted ARTICLE Properties (Requires Local Copy)

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
GoldwaserS18 [253]	32	scheduling, machine, transportation, order, resource, due-date, flow-shop, task, lazy clause generation, Benders Decomposition		cumulative	Python	Gurobi, CHIP, Gecode, Chuffed	torpedo	steel industry	github, generated instance, instance generator, benchmark	sweep, time- tabling	1080	1610
GombolayWS18 [255]	20	machine, job, re-scheduling, open-shop, task, make-span, precedence, job-shop, setup-time, multi-agent, preempt, order, distributed, flow-shop, resource, completion-time, Benders Decomposition, scheduling	OSP	cumulative, dis- junctive	Java	Gurobi, OPL	aircraft, robot, crew-scheduling, patient		real-world, instance generator, benchmark	edge-finding	1081	1611
GomesM17 [257]	11	distributed, resource, release-date, due-date, order, tardiness, inventory, scheduling, Benders Decomposition, completion-time, setup-time, job, make-span, transportation, machine	parallel machine, PMSP, single machine	cycle	C++	Cplex					1091	1621
GrimesH15 [260]	17	cmax, machine, job, lateness, job-shop, setup-time, preempt, flow-shop, no-wait, open-shop, scheduling, precedence, order, make-span, completion-time, tardiness, release-date, earliness, sequence dependent setup, distributed, task, due-date, batch process, resource	OSP, Open Shop Scheduling Problem, JSSP	noOverlap, Balance constraint, disjunctive, IloNoOverlap, endBeforeStart, Disjunctive constraint, cumulative		Choco Solver, Ilog Scheduler, Mistral, CPO	semiconductor	semiconductor industry	real-world, benchmark	not-first, not-last, time- tabling, edge-finding	1113	1643
GrimesIOS14 [262]	16	completion-time, resource, machine, preempt, re-scheduling, due-date, task, distributed, order, activity, scheduling		disjunctive		CHIP, Cplex	energy-price, real-time pricing, HVAC		real-world, real-life		1123	1653
GuoZ23 [271]	29	activity, order, sequence dependent setup, make-span, resource, job, transportation, setup-time, Benders Decomposition, distributed, scheduling, inventory, machine, job-shop, task	parallel machine	bin-packing, cycle, Balance constraint	Python	SCIP, Cplex, OPL, Gurobi	patient, railway, vaccine, COVID, automotive, drone, medical, physician, operating room	automotive industry, garment industry	real-world, supplementary material, github, benchmark		985	1515
GurEA19 [672]	24	order, resource, scheduling, re-scheduling, completion-time, distributed, job-shop, job				Cplex	patient, medical, surgery, operating room	service industry	real-life		1061	1591
GurPAE23 [272]	25	re-scheduling, order, scheduling, machine, distributed, resource, inventory		cumulative		OPL, Cplex	physician, surgery, patient, nurse, operating room, COVID		real-life		986	1516

Table 6: Automatically Extracted ARTICLE Properties (Requires Local Copy)

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
GuyonLPR12 [273]	25	precedence, Benders Decomposition, order, cmax, resource, release-date, scheduling, preempt, manpower, task, job-shop, machine, activity, make-span, flow-shop, job, completion-time	parallel machine, single machine	disjunctive, cycle		Cplex	satellite		generated instance, benchmark, instance generator	time-tabling, energetic reasoning	1136	1666
HachemiGR11 [274]	16	precedence, make-span, scheduling, resource, Benders Decomposition, task, job-shop, transportation, order, job, activity		alldifferent, GCC constraint, cycle, Cardinality constraint		OPL, Ilog Scheduler, Cplex	forestry, crew-scheduling	food industry, airline industry, forest industry			1153	1683
Ham18 [275]	14	cmax, precedence, scheduling, make-span, machine, inventory, transportation, distributed, task, batch process, completion-time, resource, job-shop, job, sequence dependent setup, due-date, order	parallel machine	endBeforeStart, cycle, cumulative, noOverlap, disjunctive		Cplex, OPL	drone, semiconductor, robot, aircraft	taxi industry			1082	1612
Ham18a [276]	10	scheduling, inventory, machine, batch process, cmax, job-shop, task, order, completion-time, make-span, tardiness, resource, job, setup-time, due-date	parallel machine	circuit, cycle, noOverlap, alternative constraint, disjunctive		CPO, Cplex, OPL	drone, semiconductor, robot		real-world		1083	1613
HamC16 [278]	6	scheduling, machine, batch process, cmax, job-shop, task, order, completion-time, sequence dependent setup, precedence, make-span, resource, job, transportation, setup-time	FJS	alwaysEqual constraint, cycle, endBeforeStart		Cplex, OPL	semiconductor	pharmaceutical industry	benchmark		1103	1633
HamPK21 [277]	12	flow-shop, resource, make-span, scheduling, sequence dependent setup, tardiness, order, machine, completion-time, distributed, precedence, cmax, setup-time, job-shop, re-scheduling, task, job	single machine, parallel machine, FJS	noOverlap, cycle, endBeforeStart		OPL, Cplex	robot, semiconductor, agriculture		github, benchmark		1029	1559
HarjunkoskiG02 [280]	20	job, due-date, scheduling, order, resource, setup-time, activity, task, machine, release-date, flow-shop, job-shop		cumulative		ECLiPSe, Ilog Scheduler, CHIP, Ilog Solver, Cplex, OPL					1208	1738

Table 6: Automatically Extracted ARTICLE Properties (Requires Local Copy)

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
HarjunkoskiMBC14 [281]	33	distributed, make to stock, machine, re-scheduling, Benders Decomposition, precedence, earliness, order, job-shop, lateness, resource, task, release-date, activity, setup-time, inventory, due-date, job, continuous-process, batch process, scheduling, transportation, manpower, make-span, tardiness	single machine	circuit, cycle, disjunctive		CHIP, Gurobi, Cplex, Gecode, SCIP, OPL, ECLiPSe	semiconductor, dairy, automotive, pipeline	dairy industry, petrochemical industry, oil industry, chemical industry, paper industry, process industry, pharmaceutical industry	real-life, benchmark, real-world		1124	1654
HauderBRPA20 [285]	14	setup-time, order, tardiness, make-span, no-wait, job-shop, resource, activity, inventory, due-date, scheduling, flow-shop, job, task, completion-time, precedence, earliness, machine, transportation, manpower	RCPSP, RCMPSP, FJS	cumulative, cycle		OPL, Cplex	aircraft	automobile industry, food-processing industry, steel industry, processing industry	real-world, industry partner, benchmark, supplementary material		1046	1576
HebrardHJMPV16 [288]	10	cmax, scheduling, order, make-span, completion-time, resource, task, distributed, machine, job	parallel machine	cumulative			satellite, earth observation		industrial partner		1104	1634
HeckmanB11 [291]	20	tardiness, order, resource, job, scheduling, job-shop, machine, activity, make-span, flow-shop, precedence		disjunctive, Completion constraint		Ilog Scheduler			real-world, benchmark	edge-finding, edge-finder	1154	1684
HeinzNVH22 [297]	16	re-scheduling, resource, scheduling, preempt, sequence dependent setup, task, machine, activity, make-span, job, precedence, distributed, setup-time, flow-shop, completion-time, order	parallel machine	cumulative, noOverlap, alternative constraint		Gurobi	robot, crew-scheduling		real-world, generated instance, benchmark, gitlab		1010	1540
HeinzSB13 [296]	36	preempt, scheduling, precedence, order, completion-time, release-date, due-date, resource, machine, job	single machine, psplib, RCPSP	disjunctive, cumulative		MiniZinc, SCIP, Cplex	satellite		benchmark	edge-finding, time-tabling	1131	1661
HeinzSSW12 [294]	12	inventory, order, task		bin-packing		Cplex	steel mill	steel industry, process industry	real-world, CSPLib		1137	1667
HeipckeCCS00 [299]	8	resource, activity, completion-time, due-date, scheduling, machine, job, task, make-span, release-date, precedence, job-shop, preempt, order	single machine, RCPSP	disjunctive, cumulative, Disjunctive constraint					benchmark, instance generator		1219	1749

Table 6: Automatically Extracted ARTICLE Properties (Requires Local Copy)

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
Hooker05 [308]	17	machine, job, task, release-date, make-span, distributed, resource, precedence, due-date, order, tardiness, scheduling, Benders Decomposition		disjunctive, cumulative, circuit		OPL, Ilog Scheduler, Cplex			random instance	edge-finding	1199	1729
Hooker06 [310]	19	machine, job, task, release-date, make-span, resource, precedence, due-date, order, tardiness, scheduling, Benders Decomposition		disjunctive, cumulative, circuit		OPL, Ilog Scheduler, Cplex			random instance		1193	1723
Hooker07 [311]	29	machine, job, task, activity, release-date, make-span, distributed, resource, precedence, due-date, order, tardiness, inventory, scheduling, Benders Decomposition		disjunctive, cumulative, circuit		OPL, Ilog Scheduler, Cplex			random instance, generated instance	edge-finding	1190	1720
HookerH17 [316]	24	scheduling, task, multi-agent, machine, job, sequence dependent setup, job-shop, preempt, flow-shop, resource, transportation, open-shop, Benders Decomposition, order, tardiness, activity, setup-time, release-date	Open Shop Scheduling Problem, parallel machine, RCPSP	bin-packing, regular expression, Regular constraint, Among constraint, circuit, cumulative, alldifferent, Cardinality constraint, disjunctive		CHIP, SCIP, ECLiPSe, OPL, MiniZinc, Ilog Solver	aircraft, crew-scheduling, operating room, radiation therapy, nurse, physician		real-world, real-life	time-tabling, edge-finding, bi-partite matching, energetic reasoning, not-first, not-last	1092	1622
HookerO03 [315]	28	scheduling, task, machine, job, due-date, resource, Benders Decomposition, order, release-date		circuit, cumulative, disjunctive		Ilog Scheduler, OPL, Cplex			generated instance		1204	1734
HoundjiSW19 [318]	27	scheduling, resource, BOM, due-date, task, transportation, order, inventory, machine	single machine	alldifferent, GCC constraint, circuit, Cardinality constraint, cumulative					random instance, bit-bucket, benchmark	sweep, max-flow	1062	1592
HubnerGSV21 [320]	22	completion-time, resource, due-date, no-wait, task, transportation, precedence, order, job, inventory, activity, machine, preempt, cmax, tardiness, make-span, scheduling	RCPSPDC, RCPSP	cycle, cumulative, alternative constraint, endBeforeStart	C	Gurobi, Cplex, OPL	automotive	dismantling industry	benchmark, real-life		1030	1560
IsikYA23 [323]	28	tardiness, scheduling, completion-time, flow-shop, batch process, setup-time, due-date, task, no-wait, order, make-span, machine, job, distributed, resource, job-shop, release-date, blocking constraint, transportation, precedence, earliness, cmax, sequence dependent setup, preempt	HFS, single machine, parallel machine	circuit, noOverlap, endBeforeStart, Calendar constraint, Blocking constraint, cumulative		OPL, Cplex	medical, robot	steel industry	benchmark, real-life, generated instance	energetic reasoning, NEH, GRASP	987	1517

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
JainG01 [325]	19	job-shop, Benders Decomposition, task, job, order, release-date, resource, scheduling, due-date, machine, activity	single machine, parallel machine	cumulative, disjunctive	Prolog	Ilog Scheduler, Ilog Solver, ECLiPSe, CHIP, OPL, Cplex	crew-scheduling				1213	1743
JainM99 [324]	45	flow-shop, preempt, task, job, open-shop, order, release-date, resource, make-span, scheduling, precedence, cmax, tardiness, due-date, machine, re-scheduling, completion-time, distributed, inventory, lateness, job-shop	single machine	disjunctive, cycle		OPL	robot, semi-conductor		benchmark, real-world, real-life	edge-finder, GRASP	1228	1758
Jans09 [326]	24	multi-agent, distributed, inventory, machine, order, scheduling, sequence dependent setup, resource, job, setup-time	single machine, parallel machine			Cplex	offshore	tire industry, fashion industry, process industry, foundry industry	benchmark		1175	1705
JuvinHL22 [331]	32	Benders Decomposition, precedence, order, activity, setup-time, release-date, scheduling, make-span, completion-time, task, cmax, machine, job, re-scheduling, distributed, job-shop, preempt, flow-shop, resource	FJS, parallel machine, single machine, JSSP	disjunctive, Disjunctive constraint, noOverlap, endBeforeStart, circuit, cumulative		Cplex, CPO			benchmark		1012	1542
JuvinHL23a [333]	17	task, job-shop, machine, activity, make-span, flow-shop, precedence, Benders Decomposition, setup-time, order, preempt, re-scheduling, resource, job, release-date, scheduling, distributed	FJS, JSSP, parallel machine, single machine	noOverlap, endBeforeStart, bin-packing, cumulative, circuit, disjunctive, Disjunctive constraint		Cplex, CPO	vaccine, COVID, drone, operating room		benchmark		988	1518
Kameugne15 [336]	2	resource, scheduling, task, completion-time, preempt		cumulative						not-last, edge-finding, not-first	1114	1644
KameugneFSN14 [340]	27	completion-time, job-shop, release-date, resource, job, order, scheduling, precedence, preempt, make-span, task	RCPSP, psplib, CuSP	cumulative, disjunctive		CHIP, Gecode			benchmark, random instance	edge-finding, energetic reasoning, not-last, not-first, edge-finder, time-tabling	1125	1655
KelbelH11 [343]	10	inventory, due-date, job-shop, preempt, resource, precedence, order, completion-time, tardiness, release-date, earliness, scheduling, make-span, distributed, task, machine, job	JSSP	cumulative, disjunctive		OPL, Cplex, Ilog Solver			generated instance, benchmark, random instance	edge-finder, edge-finding	1155	1685

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
KhayatLR06 [345]	15	job-shop, due-date, order, cmax, resource, scheduling, preempt, task, machine, activity, make-span, job, precedence, setup-time				OPL, Cplex			real-life, bench- mark		1194	1724
KoehlerBFFHPSSS21 [350]	51	flow-shop, scheduling, job, make-span, tardiness, resource, precedence, job-shop, order, lateness, task, machine, flow-time	CTW, single machine	Channeling constraint, cycle, disjunctive, alldifferent, Disjunctive constraint, circuit, cumulative	C, Python	MiniZinc, OR-Tools, Chuffed, Z3, OPL, Cplex, Gurobi	cable tree, automotive, robot		real-world, benchmark, github		1031	1561
KorbaaYG00 [354]	10										1220	1750
KovacsB08 [357]	7	order, tardiness, activity, preempt, release-date, scheduling, completion-time, job, resource, machine	single machine	disjunctive, Disjunctive constraint, bin-packing, cumulative, Cardinality constraint, cycle, Regular constraint, Completion constraint		Ilog Solver, Ilog Scheduler	aircraft		benchmark	sweep	1182	1712
KovacsB11 [358]	24	precedence, order, tardiness, activity, preempt, release-date, earliness, scheduling, make-span, completion-time, flow-time, job, distributed, due-date, job-shop, flow-shop, resource, machine	parallel machine, single machine	disjunctive, Disjunctive constraint, cumulative, Cardinality constraint, cycle, Regular constraint, Channeling constraint, Completion constraint	C++	Ilog Solver, Ilog Scheduler			benchmark	edge-finding	1156	1686
KovacsK11 [360]	24	order, tardiness, release-date, earliness, scheduling, completion-time, task, job, sequence dependent setup, due-date, job-shop, flow-shop, resource, transportation, machine, Benders Decomposition	single machine	Reified constraint, cycle	C++	Ilog Solver, Gecode, Cplex					1157	1687
KreterSS17 [365]	31	order, preempt, resource, lazy clause generation, scheduling, task, machine, activity, make-span, completion-time, precedence	RCPSP, parallel machine	IloPulse, alwaysIn, cumulative, diffn, IloForbidEnd, Pulse constraint, cycle, IloAlwaysIn, Element constraint, Reified constraint, Calendar constraint		CPO, Cplex, MiniZinc, CHIP, Chuffed			benchmark	edge-finding	1093	1623

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
KreterSSZ18 [366]	15	task, order, activity, machine, precedence, release-date, lazy clause generation, tardiness, scheduling, completion-time, resource, preempt	RCPSP, psplib	cumulative, Element constraint, Calendar constraint		Cplex, Chuffed, MiniZinc			benchmark	GRASP	1084	1614
KuB16 [367]	9	tardiness, earliness, completion-time, job-shop, job, order, precedence, scheduling, make-span, machine		Disjunctive constraint, disjunctive		Ilog Scheduler, Gurobi, Cplex, SCIP			benchmark		1105	1635
KuchcinskiW03 [368]	15	scheduling, distributed, precedence, resource, order		cycle, Diff2 constraint, circuit	Java		pipeline		benchmark		1205	1735
Laborie03 [371]	38	task, cmax, machine, job, re-scheduling, inventory, job-shop, preempt, resource, precedence, order, activity, setup-time, release-date, scheduling, make-span		cycle, Balance constraint, cumulative, disjunctive, table constraint, Disjunctive constraint	C++	Ilog Scheduler			benchmark	time-tabling, edge-finding, energetic reasoning, not-first, not-last edge-finding	1206	1736
LaborieRSV18 [374]	41	Benders Decomposition, release-date, precedence, earliness, sequence dependent setup, scheduling, machine, transportation, manpower, setup-time, order, tardiness, make-span, distributed, job-shop, resource, activity, inventory, due-date, batch process, flow-shop, job, re-scheduling, task	psplib, parallel machine, RCPSP	endBeforeStart, noOverlap, AlwaysConstant, Disjunctive constraint, alwaysEqual constraint, alternative constraint, cumulative, Arithmetic constraint, disjunctive, span constraint, Calendar constraint, cycle, alwaysIn, Reified constraint	Python, C++, C, Java	Ilog Scheduler, OPL, CHIP, Gecode, Ilog Solver, Cplex, CPO, Choco Solver	semiconductor robot, pipeline, shipping line, railway, satellite, container terminal, aircraft	petro-chemical industry, chemical industry	real-world, CSPLib, benchmark		1085	1615
LacknerMMWW23 [376]	42	release-date, job, order, tardiness, scheduling, machine, lateness, earliness, batch process, setup-time, due-date, make-span, task, job-shop	OSP, single machine, parallel machine	disjunctive, alternative constraint, cumulative, endBeforeStart, bin-packing, noOverlap, Element constraint		Chuffed, Cplex, OPL, CPO, MiniZinc, Gurobi, OR-Tools	semiconductor oven scheduling	manufacturing industry, electronics industry, steel industry	benchmark, instance generator, zenodo, real-life, random instance, industrial partner	GRASP, time-tabling	989	1519
LammaMM97 [379]	15	job-shop, resource, job, no-wait, scheduling, precedence, order, task, distributed		circuit, disjunctive, Disjunctive constraint	Prolog, C++	ECLiPSe, OPL, CHIP	railway		real-life		1235	1765
LetortCB15 [387]	52	machine, make-span, job, precedence, order, resource, scheduling, task	psplib	Cumulatives constraint, cumulative, cycle, bin-packing	Java, Prolog	Choco Solver, CHIP, SICStus			generated instance, Roadef, benchmark, random instance	energetic reasoning, sweep, edge-finding	1115	1645

Table 6: Automatically Extracted ARTICLE Properties (Requires Local Copy)

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
LiW08 [388]	18	precedence, activity, setup-time, scheduling, make-span, machine, preempt, no preempt, task, completion-time, resource, job-shop, job, re-scheduling, open-shop, Benders Decomposition, due-date, order	RCPSP	disjunctive, bin-packing, cycle		Ilog Solver, Cplex, ECLiPSe, CHIP, OPL			real-world		1183	1713
LiessM08 [390]	12	machine, job, activity, job-shop, make-span, cmax, preempt, resource, scheduling, precedence, task, order	RCPSP, psplib	cumulative, disjunctive	C++				benchmark	edge-finding	1184	1714
LimtanyakulS12 [395]	32	precedence, release-date, completion-time, job, resource, activity, tardiness, machine, scheduling, order, Benders Decomposition, due-date		table constraint, Cardinality constraint, bin-packing, cumulative, disjunctive		Ilog Scheduler, Cplex	robot, automotive	automotive industry	real-life, generated instance, industrial partner, benchmark, random instance	not-last, energetic reasoning, not-first, edge-finding	1138	1668
LombardiM10a [404]	30	due-date, distributed, job, re-scheduling, task, completion-time, Benders Decomposition, precedence, scheduling, machine, order, make-span, release-date, resource, activity, preempt	TCSP	Disjunctive constraint, cycle, span constraint, cumulative, disjunctive, table constraint	C	Cplex			benchmark, real-life, real-world	sweep	1165	1695
LombardiM12 [407]	35	precedence, flow-shop, make-span, sequence dependent setup, order, job, activity, scheduling, resource, machine, preempt, lazy clause generation, tardiness, job-shop, transportation, completion-time, re-scheduling, setup-time, earliness, Benders Decomposition, due-date, task, inventory, distributed, manpower	parallel machine, RCPSP, psplib	circuit, Disjunctive constraint, cycle, disjunctive, cumulative		OR-Tools	aircraft	chemical industry	real-world, benchmark	energetic reasoning, edge-finding	1139	1669
LombardiM12a [406]	10	completion-time, precedence, scheduling, order, make-span, resource, activity, producer/consumer	psplib, RCPSP	disjunctive		Ilog Solver			benchmark		1140	1670
LombardiMB13 [409]	14	distributed, cmax, re-scheduling, task, completion-time, precedence, scheduling, order, make-span, resource, activity, preempt	SCC, RCPSP	cycle, cumulative, circuit		OR-Tools, Gecode, Ilog Solver	pipeline, medical		benchmark, real-world		1132	1662
LombardiMRB10 [410]	31	preempt, make-span, task, precedence, resource, activity, re-scheduling, Benders Decomposition, completion-time, tardiness, producer/consumer, scheduling, release-date, order, distributed, no preempt	SCC	circuit, disjunctive, table constraint, cumulative, Disjunctive constraint, cycle, bin-packing	C	ECLiPSe, Cplex	semiconductor pipeline	semiconductor industry	real-world, real-life, benchmark		1166	1696

Table 6: Automatically Extracted ARTICLE Properties (Requires Local Copy)

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
LopesCSM10 [411]	39	distributed, stock level, inventory, job-shop, due-date, activity, order, re-scheduling, resource, scheduling, task, transportation, make-span, job, precedence		disjunctive, table constraint, cycle, alldifferent	C++	Ilog Scheduler, Ilog Solver, OPL	pipeline	oil industry	benchmark, real-world	max-flow	1167	1697
LopezAKYG00 [412]	4										1221	1751
LorigeonBB02 [413]	8	resource, activity, setup-time, preempt, flow-shop, job, cmax, open-shop, completion-time, scheduling, machine, order, make-span	parallel machine, Open Shop Scheduling Problem			Cplex, OPL					1209	1739
LunardiBLRV20 [415]	20	make-span, completion-time, job-shop, resource, flow-shop, activity, re-scheduling, job, order, tardiness, scheduling, due-date, machine, precedence, setup-time, preempt	FJS	endBeforeStart, noOverlap	Python	Cplex		printing industry, glass industry	benchmark, random instance, generated instance, github		1047	1577
MalapertCGJLR12 [423]	17	transportation, flow-shop, order, make-span, scheduling, cmax, open-shop, resource, preempt, precedence, completion-time, task, job, job-shop, activity, machine	Open Shop Scheduling Problem, OSP	disjunctive, cycle, Disjunctive constraint, cumulative	Java	Choco Solver			benchmark	not-first, not-last, edge-finding	1141	1671
MalikMB08 [427]	18	distributed, resource, machine, precedence, order, scheduling		Cardinality constraint, cycle			pipeline		benchmark	edge-finding	1185	1715
MartinPY01 [429]	17	scheduling, task, machine, order, transportation, re-scheduling, resource		circuit	Prolog	ECLiPSe, Ilog Solver	railway, aircraft	sugar industry	real-life		1214	1744
Mason01 [431]	38	scheduling, order, activity, transportation, task				OPL, Cplex	railway, crew-scheduling, nurse	airline industry			1215	1745
MejiaY20 [433]	13	resource, job-shop, cmax, sequence dependent setup, preempt, due-date, re-scheduling, order, tardiness, scheduling, completion-time, machine, setup-time, job, no-wait, open-shop, release-date, make-span, transportation, multi-agent, distributed	Open Shop Scheduling Problem, OSSP, parallel machine	Disjunctive constraint, disjunctive	Java	Cplex, ECLiPSe	agriculture, robot		supplementary material, benchmark, generated instance	GRASP	1048	1578
MenciaSV12 [435]	32	order, lateness, preempt, cmax, sequence dependent setup, resource, scheduling, flow-time, task, job-shop, machine, make-span, job, completion-time, precedence, distributed, setup-time	JSSP, single machine	disjunctive, cycle, Disjunctive constraint			steel mill		real-life, benchmark	edge-finding, energetic reasoning, time-tabling	1142	1672

Table 6: Automatically Extracted ARTICLE Properties (Requires Local Copy)

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
MenciaSV13 [436]	11	order, lateness, preempt, cmax, sequence dependent setup, resource, scheduling, flow-time, task, job-shop, machine, make-span, flow-shop, job, completion-time, precedence, setup-time	JSSP, single machine	disjunctive, cycle, Disjunctive constraint			steel mill		real-life, supplementary material, benchmark	edge-finding, energetic reasoning, time-tabling	1133	1663
MengZRZL20 [437]	13	job-shop, machine, no-wait, flow-shop, completion-time, order, cmax, batch process, open-shop, tardiness, resource, earliness, scheduling, preempt, sequence dependent setup, flow-time, transportation, make-span, job, precedence, Benders Decomposition, blocking constraint, distributed, task, no preempt, setup-time	OSP, parallel machine, Open Shop Scheduling Problem, HFS, FJS	alternative constraint, Blocking constraint, noOverlap, endBeforeStart		OR-Tools, Gecode, OPL, Gurobi, Cplex	robot, semiconductor		benchmark, supplementary material		1049	1579
MercierH08 [438]	21	scheduling, preempt, task, job, release-date, job-shop, due-date, order, resource		cumulative, disjunctive						edge-finder, edge-finding	1186	1716
MilanoW06 [442]	45	release-date, distributed, due-date, job-shop, resource, machine, job, lateness, setup-time, preempt, transportation, scheduling, Benders Decomposition, order, completion-time, task, tardiness, activity	parallel machine, single machine	Cumulatives constraint, Reified constraint, cumulative, alldifferent, Cardinality constraint, Channeling constraint, circuit, GCC constraint		ECLiPSe, Cplex, OPL, CHIP	crew-scheduling		benchmark	time-tabling, edge-finder	1195	1725
MilanoW09 [443]	40	release-date, lazy clause generation, distributed, due-date, job-shop, resource, machine, job, lateness, setup-time, preempt, transportation, scheduling, Benders Decomposition, order, completion-time, task, tardiness, activity	single machine	Cumulatives constraint, Reified constraint, cumulative, alldifferent, Cardinality constraint, Channeling constraint, circuit, GCC constraint		SCIP, ECLiPSe, Cplex, OPL, CHIP	crew-scheduling		benchmark	time-tabling, edge-finder	1176	1706
MokhtarzadehTNF20 [445]	14	task, multi-agent, setup-time, distributed, manpower, no-wait, scheduling, order, job, make-span, resource, precedence, completion-time, machine	parallel machine	cycle, alldifferent, circuit		Cplex	robot, crew-scheduling	circuit boards industry	generated instance, real-world	time-tabling	1050	1580
MontemanniD23 [449]	13	distributed, task, resource, order, scheduling, machine		circuit	Python	OR-Tools, OPL, Gurobi	robot, drone		benchmark, supplementary material		990	1520
MontemanniD23a [448]	20	order, completion-time, task, transportation, scheduling		circuit	Python	OR-Tools	drone		benchmark		991	1521

Table 6: Automatically Extracted ARTICLE Properties (Requires Local Copy)

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
MullerMKP22 [453]	18	precedence, batch process, make-span, order, job, activity, resource, machine, preempt, cmax, job-shop, scheduling, completion-time, setup-time, due-date, no-wait, task	FJS	disjunctive, circuit	Java, Python	Chuffed, MiniZinc, Choco Solver, OPL, OR-Tools, Gecode, Cplex	semiconductor robot		benchmark, github, random instance, real-world		1014	1544
NaderiBZ22 [459]	29	distributed, setup-time, job-shop, due-date, open-shop, tardiness, flow-shop, order, lateness, resource, scheduling, transportation, machine, make-span, no-wait, job, completion-time, Benders Decomposition	parallel machine, single machine	disjunctive, Disjunctive constraint, noOverlap		Cplex, CPO	surgeries, patient, crew-scheduling, operating room, nurse, automotive		benchmark, real-life		1015	1545
NaderiBZ22a [458]	19	task, job-shop, distributed, transportation, re-scheduling, sequence dependent setup, order, job, machine, preempt, precedence, flow-shop, tardiness, make-span, scheduling, completion-time, resource, setup-time, Benders Decomposition	parallel machine	Disjunctive constraint, noOverlap, disjunctive, endBeforeStart	C++	CPO, Cplex	crew-scheduling, robot, nurse, operating room, automotive		benchmark		1016	1546
NaderiRR23 [462]	27	tardiness, flow-shop, order, earliness, cmax, re-scheduling, resource, scheduling, preempt, sequence dependent setup, task, transportation, machine, make-span, no-wait, job, completion-time, precedence, Benders Decomposition, distributed, setup-time, job-shop, due-date, open-shop	OSP, Open Shop Scheduling Problem, PMSP, PTC, single machine, RCPSP, FJS, parallel machine	cumulative, disjunctive, Disjunctive constraint, noOverlap, endBeforeStart, alternative constraint	Python	Z3, CPO, Gurobi, SCIP, Cplex	crew-scheduling, operating room, automotive		github, benchmark		992	1522
NattafAL15 [464]	21	resource, release-date, scheduling, preempt, task, activity, make-span, due-date, order	RCPSP, CECSP, CuSP	cumulative	C++	Cplex			generated instance	in-energetic reasoning, sweep	1116	1646
NattafAL17 [465]	18	resource, release-date, scheduling, task, activity, make-span, job, order	CECSP	disjunctive, cumulative	C++	Cplex			real-world	energetic reasoning, edge-finding	1094	1624
NattafALR16 [466]	34	scheduling, due-date, no preempt, task, precedence, make-span, order, activity, resource, preempt, release-date	CECSP, CuSP, RCPSP	cumulative	C++	Cplex			generated instance	in-energetic reasoning, sweep	1106	1636
NattafDYW19 [467]	16	job-shop, scheduling, completion-time, setup-time, make-span, order, job, resource, machine, cmax	parallel machine, single machine, PTC	noOverlap, alternative constraint		Cplex, OPL	semiconductor	lumber industry, semiconductor industry	benchmark		1063	1593
NattafHKAL19 [468]	16	preempt, order, resource, activity, scheduling, machine, task, make-span, release-date	RCPSP, single machine, CECSP	cumulative		Cplex			benchmark, real-life	energetic reasoning	1064	1594

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
NishikawaSTT19 [474]	16	re-scheduling, order, precedence, scheduling, make-span, preempt, resource, activity, task, distributed, machine	parallel machine	alternative constraint, cumulative		Cplex	pipeline, robot		real-world, benchmark		1065	1595
NovaraNH16 [475]	17	machine, make-span, job, precedence, setup-time, due-date, activity, completion-time, order, earliness, batch process, re-scheduling, tardiness, resource, scheduling, sequence dependent setup, manpower, task		noOverlap, endBeforeStart, alternative constraint, cumulative, disjunctive		OPL, Cplex		pharmaceutical industry	CSPlib, benchmark		1107	1637
Novas19 [476]	13	resource, make-span, scheduling, transportation, flow-time, precedence, cmax, sequence dependent setup, job-shop, due-date, machine, completion-time, no-wait, activity, distributed, inventory, lateness, setup-time, flow-shop, release-date, task, tardiness, job, order	parallel machine, FJS, HFS	cycle, cumulative, endBeforeStart, noOverlap		OPL, Cplex	medical, semiconductor, robot	solar cell industry	benchmark		1066	1596
NovasH10 [477]	20	precedence, batch process, due-date, re-scheduling, order, tardiness, scheduling, completion-time, machine, setup-time, job, task, no-wait, manpower, activity, make-span, earliness, resource, lateness				OPL, Ilog Scheduler	pipeline				1168	1698
NovasH12 [478]	17	precedence, order, scheduling, completion-time, machine, job, task, no-wait, activity, make-span, transportation, resource		cycle		Ilog Solver, OPL, Ilog Scheduler	hoist, electroplating, container terminal, semiconductor, robot	semiconductor industry, electroplating industry			1143	1673
NovasH14 [479]	14	precedence, order, scheduling, completion-time, machine, job, task, activity, make-span, transportation, buffer-capacity, resource, job-shop	single machine, parallel machine			Ilog Solver, OPL, Ilog Scheduler	robot		benchmark		1126	1656
NuijtenA96 [482]	16	resource, scheduling, preempt, machine, make-span, job, precedence, job-shop, flow-shop, completion-time, order	JSSP	disjunctive, Disjunctive constraint		CPO				time-tabling	1238	1768
NuijtenP98 [481]	16	resource, scheduling, preempt, manpower, task, transportation, machine, make-span, job, precedence, setup-time, job-shop, flow-shop, completion-time, order	single machine, JSSP	disjunctive, Disjunctive constraint	C++	Ilog Solver, OPL, Ilog Scheduler	satellite		real-life	edge-finding	1231	1761

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
OhrimenkoSC09 [485]	35	job, completion-time, scheduling, machine, open-shop, order, lazy clause generation, make-span, resource	Open Shop Scheduling Problem	Reified constraint, Arithmetic constraint, alldifferent, Cardinality constraint, disjunctive		Gecode			benchmark		1177	1707
OzturkTHO13 [490]	36	order, job, activity, scheduling, completion-time, resource, machine, preempt, cmax, setup-time, task, precedence, flow-shop, make-span	SBSFMMAL	Disjunctive constraint, Channeling constraint, cycle, disjunctive, cumulative		OPL, CHIP, Ilog Solver, Cplex			real-world, real-life	edge-finding	1134	1664
PandeyS21a [491]	29	resource, scheduling, re-scheduling, make-span, job, precedence, distributed, task, machine, activity, flow-shop, completion-time, order	parallel machine, PMSP, single machine	cumulative, Pulse constraint, end-BeforeStart, alternative constraint		OPL, Cplex	semiconductor		benchmark		1033	1563
PapaB98 [494]	25	due-date, machine, preempt, re-scheduling, activity, task, flow-shop, resource, job, order, make-span, completion-time, scheduling, distributed, cmax, setup-time, job-shop	PJSSP, JSSP	cumulative, table constraint, disjunctive, Disjunctive constraint, Cardinality constraint	C++	Ilog Solver, CHIP, Claire	hoist		benchmark	edge-finder, energetic reasoning, edge-finding	1232	1762
Pape94 [492]	34	due-date, multi-agent, distributed, resource, inventory, machine, release-date, job-shop, task, order, scheduling, precedence, re-scheduling, activity, job		cumulative, disjunctive	Prolog, C++, Lisp						1241	1771
PenzDN23 [497]	13	machine, flow-time, job, resource, job-shop, release-date, earliness, preempt, order, tardiness, scheduling, completion-time, setup-time, activity, make-span	parallel machine, single machine			Cplex	semiconductor	semiconductor industry			994	1524
PoderBS04 [503]	16	preempt, scheduling, precedence, order, task, activity, producer/consumer, release-date, due-date, resource, machine	RCPSPP	cumulative	Prolog	CHIP		chemical industry			1202	1732
PohlAK22 [504]	16	job, activity, resource, lateness, release-date, transportation, precedence, earliness, sequence dependent setup, re-scheduling, tardiness, inventory, scheduling, completion-time, setup-time, order, machine	SCC, single machine	cumulative, noOverlap	Python	Cplex, Gurobi	aircraft		benchmark, real-world		1018	1548

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
Polo-MejiaALB20 [505]	18	setup-time, cmax, resource, preempt, precedence, earliness, Benders Decomposition, task, job, due-date, activity, machine, tardiness, order, release-date, make-span, scheduling, completion-time	RCPSP	endBeforeStart, alternative constraint, alwaysIn, Disjunctive constraint, cumulative, noOverlap, disjunctive, Calendar constraint	C++	Cplex, CPO			Roadef, github		1051	1581
PourDERB18 [507]	12	order, transportation, job, scheduling, task, machine				OR-Tools, Cplex	crew-scheduling, railway		real-world, real-life, benchmark, generated instance		1086	1616
PrataAN23 [511]	17	precedence, order, tardiness, activity, setup-time, flow-time, release-date, no-wait, earliness, scheduling, make-span, completion-time, task, machine, job, lateness, re-scheduling, sequence dependent setup, inventory, distributed, due-date, job-shop, batch process, preempt, flow-shop, resource, open-shop, Benders Decomposition	single machine, Open Shop Scheduling Problem, parallel machine	circuit, cumulative		CHIP	aircraft, dairy, robot, energy-price	manufacturing industry	benchmark, real-world, real-life	time-tabling	972	1502
QinDCS20 [514]	18	order, tardiness, scheduling, completion-time, machine, setup-time, job, task, activity, make-span, transportation, cmax, resource, Benders Decomposition, precedence	parallel machine	endBeforeStart, cycle, noOverlap		OPL, Cplex	shipping line, container terminal, yard crane	maritime industry, shipping industry	real-life, benchmark	GRASP	1052	1582
QinWSLS21 [513]	12	job-shop, preempt, flow-shop, scheduling, order, make-span, completion-time, tardiness, batch process, cmax, machine, job, lateness	single machine		C++	OPL, Cplex	agriculture, semiconductor	semiconductor industry			1034	1564
Rodriguez07 [522]	15	precedence, blocking constraint, job, scheduling, resource, preempt, due-date, job-shop, transportation, task, order, activity		circuit, Disjunctive constraint, Blocking constraint, disjunctive		Ilog Solver, Z3, Ilog Scheduler, Cplex	railway, satellite		real-life	GRASP	1191	1721
RodriguezDG02 [521]	10	resource, activity, order, completion-time, scheduling, transportation		circuit, disjunctive			railway			edge-finding	1211	1741
RoshanaeiBAUB20 [523]	19	scheduling, resource, order, Benders Decomposition, job, job-shop, setup-time, activity, machine, distributed, sequence dependent setup, re-scheduling	parallel machine	bin-packing, noOverlap, disjunctive	C++	Cplex	operating room, nurse, patient, surgery		benchmark, generated instance, real-world		1053	1583

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
RoshanaeiLAU17 [524]	17	tardiness, sequence dependent setup, Benders Decomposition, transportation, scheduling, order, make-span, release-date, resource, setup-time, task, distributed, machine, job-shop, job, re-scheduling	parallel machine, single machine	bin-packing		Cplex, Gurobi	patient, operating room, medical, surgery, nurse		real-world		1095	1625
RuggieroBBMA09 [527]	14	resource, activity, distributed, machine, scheduling, order, Benders Decomposition, preempt, setup-time, precedence, task		circuit, cumulative, cycle		Ilog Solver, Ilog Scheduler, Cplex	pipeline, satellite		instance generator, real-life		1178	1708
SacramentoSP20 [528]	33	preempt, precedence, task, open-shop, completion-time, job, resource, activity, distributed, machine, flow-shop, job-shop, transportation, scheduling, order, make-span	parallel machine, Open Shop Scheduling Problem	disjunctive, cumulative, alternative constraint, end-BeforeStart, noOverlap	Java	Cplex, CPO	container terminal	shipping industry, maritime industry	benchmark, real-life, zenodo, real-world		1054	1584
SadykovW06 [530]	9	scheduling, due-date, machine, completion-time, lateness, job, release-date	parallel machine, single machine	disjunctive, Disjunctive constraint		CHIP	robot		generated instance		1196	1726
SakkoutW00 [531]	30	scheduling, distributed, task, job-shop, machine, activity, precedence, order, preempt, transportation, re-scheduling, resource, job	KRFP, single machine	Arithmetic constraint, bin-packing, disjunctive, Disjunctive constraint		CHIP, Cplex	emergency service, aircraft		benchmark, real-world	edge-finder, edge-finding	1222	1752
SchausHMCMD11 [533]	23	task, order	SCC	Cardinality constraint, bin-packing, Element constraint, GCC constraint			steel mill	steel industry	benchmark, CSPLib, generated instance		1158	1688
SchildW00 [534]	23	scheduling, completion-time, task, job, distributed, job-shop, flow-shop, resource, machine, precedence, order	single machine	disjunctive, Disjunctive constraint, bin-packing, Reified constraint, cycle		Ilog Solver	automotive	automotive industry, aerospace industry		time-tabling, edge-finding	1223	1753
SchnellH15 [535]	21	preempt, resource, job, lazy clause generation, scheduling, machine, activity, make-span, precedence, cmax	psplib, RCPSP	cycle, cumulative		SCIP	automotive	IT industry	real-life, benchmark, supplementary material	GRASP	1117	1647
SchuttFSW11 [542]	33	scheduling, completion-time, resource, machine, preempt, lazy clause generation, open-shop, task, order, activity, precedence, make-span	psplib, RCPSP	circuit, Disjunctive constraint, span constraint, disjunctive, cumulative		ECLiPSe, CHIP, Ilog Scheduler, SICStus			real-world, benchmark	not-last, not-first, edge-finding, edge-finder	1159	1689
SchuttFSW13 [543]	17	scheduling, resource, machine, setup-time, preempt, cmax, lazy clause generation, task, order, activity, precedence, release-date	SCC, psplib, RCPSP	cycle, disjunctive, cumulative, Reified constraint	C++	CHIP			supplementary material, benchmark		1135	1665

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
ShaikhK23 [549]	12	job, re-scheduling, distributed, job-shop, resource, open-shop, machine, order, activity, scheduling, task					medical, drone		real-world, benchmark	time-tabling	995	1525
ShinBBHO18 [552]	16	order, preempt, transportation, resource, job, scheduling, task, machine, activity, inventory					patient, physician, nurse, medical		real-world, github		1087	1617
Siala15 [553]	2	precedence, cmax, sequence dependent setup, job-shop, lazy clause generation, due-date, machine, activity, earliness, setup-time, task, tardiness, job, open-shop, order, resource, make-span, scheduling	single machine, OSP, RCPSP, TMS	AmongSeq constraint, circuit, alldifferent, Balance constraint, cumulative, table constraint, disjunctive, CardPath, GCC constraint, AtMostSeqCard, Reified constraint, Regular constraint, AtMostSeq, Among constraint, Atmost constraint, Disjunctive constraint, Cardinality constraint, cycle, MultiAtMostSeqCard		Mistral, Ilog Solver, CHIP, Claire, OPL	rectangle-packing, automotive		real-world, github, benchmark, random instance, Roadeff, CSPlib	GRASP, edge-finding, time-tabling	1118	1648
SimoninAHL15 [557]	23	resource, activity, scheduling, transportation, task, make-span, precedence, preempt, order, inventory		disjunctive, span constraint, cycle, cumulative		CHIP	earth observation, robot, satellite, pipeline			sweep	1119	1649
Simonis07 [561]	30	scheduling, make to order, task, producer/consumer, bill of material, job, re-scheduling, sequence dependent setup, due-date, job-shop, batch process, resource, transportation, machine, order, activity, setup-time, release-date		disjunctive, GCC constraint, Atmost constraint, diffn, bin-packing, Among constraint, cumulative, alldifferent, Cardinality constraint, cycle, Cumulatives constraint	Prolog	OPL, CHIP, Ilog Scheduler	aircraft, patient, medical, nurse			sweep, bi-partite matching, time-tabling	1192	1722
SimonisCK00 [562]	7	order, activity, machine, producer/consumer, scheduling, resource, task, transportation, stock level		disjunctive, cumulative, diffn, bin-packing, cycle, circuit	C++, Prolog	CHIP	aircraft, crew-scheduling	food industry			1224	1754

Table 6: Automatically Extracted ARTICLE Properties (Requires Local Copy)

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
SourdN00 [565]	12	make-span, resource, job-shop, flow-shop, precedence, cmax, preempt, order, scheduling, completion-time, machine, setup-time, job, open-shop, release-date	JSSP, single machine	disjunctive, cumulative, Disjunctive constraint		Ilog Scheduler	robot		real-life, benchmark	not-first, edge-finding	1225	1755
SubulanC22 [567]	38	tardiness, order, preempt, BOM, transportation, resource, scheduling, task, due-date, machine, activity, make-span, completion-time, precedence, inventory	RCPSp	endBeforeStart, cumulative		Cplex, OPL	offshore		real-world, real-life, benchmark		1020	1550
SureshMOK06 [570]	19	task, distributed, order, job, machine, scheduling, buffer-capacity		cumulative, cycle		Z3					1197	1727
TangLWSK18 [576]	28	order, preempt, transportation, re-scheduling, resource, scheduling, task, activity, job	RCPSp	circuit, cycle	C	Cplex, OPL	crew-scheduling, railway, pipeline				1088	1618
TerekhovDOB12 [582]	15	distributed, due-date, preempt, make-span, precedence, cmax, resource, inventory, activity, job, Benders Decomposition, completion-time, tardiness, job-shop, scheduling, release-date, machine, lateness, flow-shop, earliness, open-shop, order	parallel machine, RCPSp, single machine	disjunctive, cumulative, Balance constraint, alldifferent	C++	Ilog Scheduler, Cplex, Ilog Solver	robot		real-life		1144	1674
TerekhovTDB14 [583]	38	flow-shop, order, distributed, no preempt, preempt, make-span, task, cmax, resource, inventory, activity, re-scheduling, job, completion-time, tardiness, job-shop, scheduling, flow-time, buffer-capacity, release-date, machine	parallel machine, single machine			Ilog Scheduler, Cplex	robot, semiconductor		real-world		1127	1657
ThiruvadyWGS14 [587]	34	scheduling, order, precedence, task, make-span, completion-time, resource, activity, tardiness, distributed, machine, job	psplib, single machine	cumulative				mining industry	benchmark		1128	1658
Timpe02 [590]	18	inventory, task, job, resource, make-span, scheduling, producer/consumer, due-date, order, machine, activity, stock level, setup-time		diffn, Balance constraint, cumulative, disjunctive, cycle	C++	CHIP, Cplex		chemical industry, process industry			1212	1742
TopalogluO11 [592]	10	scheduling, re-scheduling, task, transportation, preempt, order, distributed				Cplex, OPL, Solver	Ilog nurse, surgery, medical, physician, emergency service, patient		real-life	time-tabling	1160	1690

Table 6: Automatically Extracted ARTICLE Properties (Requires Local Copy)

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
TorresL00 [593]	12	precedence, order, preempt, release-date, scheduling, make-span, task, job, job-shop, resource, machine	single machine, JSSP	disjunctive, cumulative, cycle	C++		robot		benchmark	not-last, energetic reasoning, not-first	1226	1756
TranAB16 [596]	13	sequence dependent setup, due-date, order, tardiness, scheduling, completion-time, machine, setup-time, job, release-date, make-span, cmax, resource, Benders Decomposition, precedence	single machine, parallel machine, PMSP	cycle, circuit		SCIP, Gurobi, Cplex	aircraft		benchmark		1108	1638
TranPZLDB18 [599]	17	machine, preempt, make-span, scheduling, completion-time, resource, task, distributed, re-scheduling, order, job	single machine	bin-packing	C++	Cplex			benchmark, generated instance		1089	1619
TranVNB17 [601]	68	scheduling, Benders Decomposition, precedence, order, task, activity, resource, multi-agent, machine, job, re-scheduling, transportation		alternative constraint, cumulative, Cardinality constraint, noOverlap		OPL, MiniZinc, Cplex	satellite, robot, medical		real-world		1097	1627
TrojetHL11 [604]	7	task, job-shop, machine, activity, make-span, job, completion-time, precedence, distributed, due-date, order, resource, scheduling	RCPSP	cumulative, diffn, disjunctive, cycle, alldifferent	Prolog	CHIP, SIC-Stus	robot		real-world		1161	1691
Tsang03 [605]	2	resource, scheduling							real-life	time-tabling	1207	1737
VilimBC05 [622]	23	setup-time, scheduling, make-span, completion-time, task, job, sequence dependent setup, distributed, job-shop, batch process, resource, open-shop, machine, precedence, order, activity		disjunctive, cumulative, cycle					benchmark, real-life	sweep, edge-finding, not-first, not-last	1200	1730
VlkHT21 [625]	14	scheduling, tardiness, due-date, completion-time, no-wait, distributed, precedence, Benders Decomposition, order, resource	PMSP	alternative constraint, noOverlap		OPL, Cplex, Gurobi, Z3	automotive, robot		github, benchmark, industrial partner, random instance	GRASP	1035	1565
Wallace96 [627]	30	distributed, task, resource, multi-agent, machine, job, job-shop, transportation, scheduling, Benders Decomposition, order, activity		cycle, circuit, disjunctive	Lisp, Prolog	CHIP, Ilog Solver, ECLiPSe, OPL	automotive, robot, aircraft, railway	process industry, automotive industry		time-tabling	1239	1769
WallaceY20 [629]	19	machine, flow-shop, order, resource, scheduling, transportation, job, Benders Decomposition, lazy clause generation, task, job-shop	CHSP	cumulative, disjunctive, circuit, Disjunctive constraint, cycle		Chuffed, Gecode, OPL, Gurobi, Cplex, MiniZinc	electroplating, container terminal, robot, hoist, yard crane		random instance, real-world, real-life, benchmark	edge-finding, time-tabling	1055	1585
WangMD15 [632]	13	make-span, job, activity, resource, job-shop, precedence, cmax, re-scheduling, scheduling, completion-time, task, no-wait, order		cumulative, noOverlap		OPL, Cplex	nurse, operating room, physician, patient, surgery, medical		real-life, real-world	time-tabling	1120	1650

Table 6: Automatically Extracted ARTICLE Properties (Requires Local Copy)

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
WikarekS19 [636]	22	multi-agent, scheduling, preempt, manpower, make-span, resource, job, precedence, distributed, task, setup-time, job-shop, machine, flow-shop, order, cmax, inventory	RCPSP, JSSP	cumulative, disjunctive		ECLiPSe, Z3, SCIP	robot				1068	1598
WuBB09 [645]	9	distributed, resource, job, machine, job-shop, task, order, scheduling, completion-time, lateness, precedence, activity, flow-time, transportation	single machine	Channeling constraint, cumulative		Ilog Solver	railway, crew-scheduling		real-world		1179	1709
YounespourAKE19 [647]	11	re-scheduling, resource, inventory, order, scheduling, completion-time, cmax, activity, machine, precedence, make-span, distributed		alternative constraint, span constraint, cumulative, noOverlap		OPL, Z3	nurse, operating room, surgery, medical, patient		real-life, real-world		1069	1599
YunusogluY22 [650]	18	order, tardiness, make-span, release-date, lateness, precedence, sequence dependent setup, job-shop, resource, activity, setup-time, preempt, inventory, due-date, batch process, job, cmax, re-scheduling, flow-time, completion-time, earliness, scheduling, machine, transportation	PMSP, parallel machine	noOverlap, bin-packing, cumulative, endBeforeStart		OPL, Cplex	robot, medical	insulation industry	real-world, generated instance, benchmark, real-life, supplementary material	GRASP	1021	1551
YuraszeckMCCR23 [653]	11	job-shop, flow-time, setup-time, cmax, activity, open-shop, machine, precedence, task, flow-shop, make-span, resource, preempt, batch process, order, scheduling, job	RCPSP, Open Shop Scheduling Problem, JSSP, FJS, OSSP	endBeforeStart, cumulative		OPL, Cplex		pharmaceutical industry	github, benchmark, real-world	GRASP	996	1526
YuraszeckMPV22 [652]	26	sequence dependent setup, no-wait, due-date, transportation, scheduling, order, make-span, release-date, completion-time, resource, setup-time, task, distributed, open-shop, machine, flow-shop, flow-time, job-shop, job, re-scheduling	Open Shop Scheduling Problem, OSSP, single machine, JSSP	noOverlap, disjunctive, Disjunctive constraint	Java	Cplex	semiconductor automotive, robot	manufacturing industry	real-life, generated instance, benchmark, github		1022	1552

Table 6: Automatically Extracted ARTICLE Properties (Requires Local Copy)

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
ZarandiASC20 [656]	93	preempt, order, tardiness, inventory, batch process, distributed, lateness, no-wait, resource, activity, multi-agent, completion-time, due-date, scheduling, machine, flow-shop, job, cmax, re-scheduling, open-shop, task, flow-time, make-span, release-date, precedence, earliness, sequence dependent setup, job-shop, transportation, setup-time	HFS, PMSP, parallel machine, RCPSP, OSSP, JSSP, single machine, FJS, Open Shop Scheduling Problem	disjunctive, cycle	Prolog	OPL	satellite, robot, surgery, drone, medical, railway, crew-scheduling, container terminal, nurse, aircraft, semiconductor, operating room	textile industry, gas industry	real-world, benchmark, real-life	max-flow, time-tabling	1056	1586
ZarandiKS16 [655]	17	make-span, job, scheduling, completion-time, resource, machine, preempt, earliness, due-date, tardiness, job-shop, transportation, task, order, distributed, flow-shop	single machine			Ilog Solver	robot		real-world	time-tabling	1109	1639
ZeballosH05 [657]	10	make-span, order, job, activity, resource, machine, tardiness, scheduling, transportation, buffer-capacity, completion-time, due-date, task, precedence				Ilog Scheduler, OPL, Ilog Solver	robot				1201	1731
ZeballosQH10 [658]	20	make-span, precedence, earliness, job-shop, transportation, preempt, order, tardiness, cmax, resource, activity, completion-time, due-date, scheduling, machine, job, task				ECLiPSe, Ilog Scheduler, OPL, Ilog Solver, Cplex	robot		real-world, benchmark		1169	1699
ZhangW18 [662]	18	job, no-wait, lateness, job-shop, transportation, multi-agent, earliness, preempt, flow-time, distributed, resource, tardiness, scheduling, completion-time, flow-shop, precedence, re-scheduling, order, make-span, machine, setup-time	FJS	cumulative, noOverlap		Cplex, Z3, OPL	robot		benchmark		1090	1620
ZhangYW21 [661]	10	cmax, machine, job, re-scheduling, setup-time, preempt, scheduling, precedence, order, make-span, task, activity, release-date, distributed, job-shop, batch process, resource, multi-agent	RCPSP	disjunctive, endBeforeStart		Cplex	robot		benchmark		1036	1566
Zhou97 [665]	29	release-date, job-shop, due-date, task, order, preempt, scheduling, completion-time, precedence, job, machine		Disjunctive constraint, disjunctive, cumulative	Prolog	CHIP, Z3, Ilog Scheduler			benchmark	edge-finding, edge-finder	1236	1766

Table 6: Automatically Extracted ARTICLE Properties (Requires Local Copy)

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
ZhuSZW23 [668]	22	order, scheduling, completion-time, machine, setup-time, job, task, open-shop, make-span, transportation, multi-agent, cmax, distributed, resource, inventory, job-shop, Benders Decomposition, precedence, preempt, re-scheduling		endBeforeStart, alternative constraint, disjunctive, noOverlap		Cplex	robot	cable industry	real-world, benchmark		997	1527
ZouZ20 [671]	10	resource, task, order, scheduling, completion-time, activity, precedence, distributed		cumulative, noOverlap, span constraint, endBeforeStart		Cplex, OPL	pipeline		benchmark		1057	1587
abs-0907-0939 [501]	12	task, resource, activity, scheduling, release-date, order, due-date, preempt, make-span		Cardinality constraint, RelSoftCumulative, Cumulatives constraint, RelSoftCumulativeSum, cumulative, SoftCumulative, SoftCumulativeSum	Java	Choco Solver, CHIP			real-world	sweep, energetic reasoning, edge-finding	1180	1710
abs-1009-0347 [541]	37	make-span, task, precedence, cmax, resource, activity, scheduling, machine, order, preempt, lazy clause generation	psplib, RCPSP, SCC	disjunctive, cumulative, cycle	C++	Ilog Scheduler, CHIP, Ilog Solver			benchmark, instance generator		1170	1700
abs-1901-07914 [77]	8	resource, distributed, machine, multi-agent, scheduling, order, make-span, task			Python	OR-Tools, MiniZinc	robot		benchmark, real-world, github		1070	1600
abs-1902-01193 [14]	9	order, scheduling, resource, activity, BOM, task			Python, C++, Prolog	CHIP, Ilog Solver, OPL	medical, nurse			time-tabling	1071	1601
abs-1902-09244 [284]	62	completion-time, resource, setup-time, activity, task, machine, flow-shop, job-shop, job, tardiness, order, inventory, no-wait, due-date, precedence, transportation, earliness, scheduling, make-span, release-date	FJS, RCMPSP, RCPSP	cumulative, cycle, endBeforeStart		OPL, Cplex	aircraft	automobile industry, steel industry, food-processing industry, glass industry, processing industry	benchmark, industry partner, real-world		1072	1602
abs-1911-04766 [237]	16	scheduling, order, make-span, due-date, precedence, task, release-date, completion-time, job, resource, re-scheduling, activity	RCPSP	noOverlap, Cardinality constraint, disjunctive, cumulative, alternative constraint, endBeforeStart	Java	MiniZinc, CPO, Chuffed, Cplex, Gecode	automotive		real-world, benchmark, github, real-life, instance generator, generated instance, industrial partner	time-tabling	1073	1603

Table 6: Automatically Extracted ARTICLE Properties (Requires Local Copy)

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
abs-2102-08778 [156]	10	task, job, resource, open-shop, machine, flow-shop, job-shop, scheduling, order, make-span	JSSP		Java	Cplex, OR-Tools, OPL, MiniZinc, CPO			benchmark, real-life, real-world, generated instance		1037	1567
abs-2211-14492 [568]	17	distributed, flow-shop, transportation, scheduling, order, make-span, completion-time, cmax, resource, setup-time, activity, due-date, precedence, task, machine, job-shop, job, tardiness	single machine	bin-packing, cumulative, Disjunctive constraint, disjunctive	Python	Cplex, OR-Tools	semiconductor		benchmark, random instance, generated instance		1023	1553
abs-2305-19888 [298]	42	job, re-scheduling, sequence dependent setup, distributed, flow-shop, scheduling, order, make-span, completion-time, cmax, preempt, resource, setup-time, activity, precedence, task, machine	parallel machine	noOverlap, alternative constraint, cumulative		Gurobi	robot		generated instance, real-world, gitlab, benchmark		998	1528
abs-2306-05747 [579]	9	job-shop, re-scheduling, scheduling, order, make-span, preempt, precedence, task, flow-time, completion-time, job, resource, tardiness, machine, flow-shop	JSSP	noOverlap, disjunctive, cumulative	Java	Choco Solver			supplementary material, benchmark, real-world, github, industrial instance		999	1529
abs-2312-13682 [499]	20	resource, activity, machine, inventory, re-scheduling, scheduling, order, make-span, transportation, task		cumulative, table constraint		OPL	steel mill, container terminal, nurse, operating room		real-world, generated instance		1000	1530
abs-2402-00459 [471]	21	machine, job-shop, job, multi-agent, tardiness, due-date, earliness, scheduling, order, completion-time, resource, precedence, task	single machine	Disjunctive constraint, disjunctive, bin-packing, cumulative		OPL, OR-Tools		mining industry	instance generator, real-world, generated instance, benchmark, github		973	1503

3.3 Manually Defined Fields

Table 7: Manually Defined ARTICLE Properties

Key	Title (Local Copy)	CP System	Bench	Links	Data Avail	Sol Avail	Code Avail	Related To	Classification	Constraints	a	b
ForbesHJST24	Combining optimisation and simulation using		benchmark,	1							971	1319
ForbesHJST24 [218]	logic-based Benders decomposition		real-life, github									
PrataAN23	Applications of constraint programming in	-	benchmark,	1	-		-	-	survey	-	972	1432
PrataAN23 [511]	production scheduling problems: A descriptive bibliometric analysis		real-world, real-life									
abs-2402-00459	Genetic-based Constraint Programming for	OR-Tools	instance genera-	2	y		n	-	RCJS	cumulatives	973	1500
abs-2402-00459 [471]	Resource Constrained Job Scheduling		tor, real-world, generated instance, bench-									
AbreuNP23	A new two-stage constraint programming	?	mark, github	10	?		?	?	?	?	974	1248
AbreuNP23 [169]	approach for open shop scheduling problem with machine blocking		real-world, benchmark									
AbreuPNF23	A constraint programming-based iterated greedy		real-life, bench-	0							975	1249
AbreuPNF23 [3]	algorithm for the open shop with sequence-dependent processing times and makespan minimization		mark, real-world									
Adelgren2023	On the utility of production scheduling		generated	12							976	1250
Adelgren2023 [7]	formulations including record keeping variables		instance, bench-									
			mark, real-life, github, sup-									
			plementary material									
AfsarVPG23	Mathematical models and benchmarking for the		real-life, supple-	96							977	1251
AfsarVPG23 [8]	fuzzy job shop scheduling problem		mentary material, benchmark, real-world									
AkramNHRS23	Joint Scheduling and Routing Optimization for	OR-Tools	benchmark	0	n		n	-	TSN	-	978	1253
AkramNHRS23 [13]	Deterministic Hybrid Traffic in Time-Sensitive Networks Using Constraint Programming											
AlfieriGPS23	Permutation flowshop problems minimizing core		benchmark	0							979	1254
AlfieriGPS23 [15]	waiting time and core idle time											
Caballero23	Scheduling through logic-based tools	SAT		1	-		-	PhD Thesis	RCPSP	-	980	1292
Caballero23 [128]												
CzerniachowskaWZ23	Constraint Programming for Flexible Flow Shop		benchmark,	0							981	1302
CzerniachowskaWZ23 [160]	Scheduling Problem with Repeated Jobs and Repeated Operations		Roadef, real-world									
FahimiQ23	Overload-Checking and Edge-Finding for Robust			0							982	No
FahimiQ23 [208]	Cumulative Scheduling											
Fatemi-AnarakiTFV23	Scheduling of Multi-Robot Job Shop Systems in		github, real-	2							983	1317
Fatemi-AnarakiTFV23 [213]	Dynamic Environments: Mixed-Integer Linear Programming and Constraint Programming Approaches		world, random instance									
GhasemiMH23	Operating room scheduling by emphasising			0							984	No
GhasemiMH23 [244]	human factors and dynamic decision-making styles: a constraint programming method											
GuoZ23	Capacity reservation for humanitarian relief: A		real-world, sup-	14							985	1330
GuoZ23 [271]	logic-based Benders decomposition method with subgradient cut		plementary material, github, benchmark									

Table 7: Manually Defined ARTICLE Properties

Key	Title (Local Copy)	CP System	Bench	Links	Data Avail	Sol Avail	Code Avail	Related To	Classification	Constraints	a	b
GurPAE23 GurPAE23 [272]	Operating room scheduling with surgical team: a new approach with constraint programming and goal programming	Cplex	real-life	0	n		n	-	-	-	986	1332
IsikYA23 IsikYA23 [323]	Constraint programming models for the hybrid flow shop scheduling problem and its extensions	OPL CP Opt	benchmark, real-life, real-world, generated instance	4	y		y	-	HFSP	alternative endBeforeStart noOverlap cumulative	987	1355
JuvinHL23a JuvinHL23a [333]	Logic-based Benders decomposition for the preemptive flexible job-shop scheduling problem		benchmark	1							988	1360
LacknerMMWW23 LacknerMMWW23 [376]	Exact methods for the Oven Scheduling Problem	MiniZinc OPL	benchmark, instance generator, zenodo, real-life, random instance, industrial partner	0	DZN JSON		y	[375]	OSP	alternative noOverlap forbidExtent	989	1376
MontemanniD23 MontemanniD23 [449]	Solving the Parallel Drone Scheduling Traveling Salesman Problem via Constraint Programming	OR-Tools	benchmark, supplementary material	6	ref	y	n	-	PDSTSP	circuit	990	1403
MontemanniD23a MontemanniD23a [448]	Constraint programming models for the parallel drone scheduling vehicle routing problem	OR-Tools	benchmark	0	ref		n	-	PDSTSP	circuit multipleCircuit	991	1404
NaderiRR23 NaderiRR23 [462]	Mixed-Integer Programming vs. Constraint Programming for Shop Scheduling Problems: New Results and Outlook		github, benchmark	8							992	1408
NouriMHD23 NouriMHD23 [606]	Production scheduling in a reconfigurable manufacturing system benefiting from human-robot collaboration			0							993	No
PenzDN23 PenzDN23 [497]	Minimizing the sum of completion times on a single machine with health index and flexible maintenance operations			0							994	1427
ShaikhK23 ShaikhK23 [549]	Management of electronic ledger: a constraint programming approach for solving curricula scheduling problems	?	real-world, benchmark	2	?		?	?	?	?	995	1448
YuraszekMCCR23 YuraszekMCCR23 [653]	A Constraint Programming Formulation of the Multi-Mode Resource-Constrained Project Scheduling Problem for the Flexible Job Shop Scheduling Problem	CP Opt	github, benchmark, real-world	0	ref		n	-	FJSSP	alternative endBeforeStart cumulative	996	1478
ZhuSZW23 ZhuSZW23 [668]	Constraint programming and logic-based Benders decomposition for the integrated process planning and scheduling problem		real-world, benchmark	0							997	1487
abs-2305-19888 abs-2305-19888 [298]	Constraint Programming and Constructive Heuristics for Parallel Machine Scheduling with Sequence-Dependent Setups and Common Servers	CP Opt Gurobi	generated instance, real-world, gitlab, benchmark	1	y	y	n	-	$P seq, ser C_{max}$	alternative noOverlap cumulative	998	1497
abs-2306-05747 abs-2306-05747 [579]	An End-to-End Reinforcement Learning Approach for Job-Shop Scheduling Problems Based on Constraint Programming	custom Choco	supplementary material, benchmark, real-world, github, industrial instance	0	ref		n	-	JSSP	noOverlap	999	1498
abs-2312-13682 abs-2312-13682 [499]	A Constraint Programming Model for Scheduling the Unloading of Trains in Ports: Extended	custom	real-world, generated instance	0	n		n	-	SUTP	table disjunctive	1000	1499

Table 7: Manually Defined ARTICLE Properties

Key	Title (Local Copy)	CP System	Bench	Links	Data Avail	Sol Avail	Code Avail	Related To	Classification	Constraints	a	b
AbreuN22 AbreuN22 [168]	A new hybridization of adaptive large neighborhood search with constraint programming for open shop scheduling with sequence-dependent setup times	Cplex CP Opt	real-world, benchmark	0	y		n	-	OSSPST	noOverlap	1001	1247
BourreauGGLT22 BourreauGGLT22 [119]	A constraint-programming based decomposition method for the Generalised Workforce Scheduling and Routing Problem (GWSRP)		real-world, benchmark	2							1002	1290
CampeauG22 CampeauG22 [129]	Short- and medium-term optimization of underground mine planning using constraint programming	CP Opt	real-life, real-world	0	ref		n			pulse alwaysIn endBeforeStart noOverlap	1003	1293
ColT22 ColT22 [161]	Industrial-size job shop scheduling with constraint programming		generated instance, supplementary material, github, benchmark, real-life, real-world	4							1004	1300
ElciOH22 ElciOH22 [196]	Stochastic Planning and Scheduling with Logic-Based Benders Decomposition		benchmark, random instance, real-life	0							1005	1307
EmdeZD22 EmdeZD22 [200]	Point-to-point and milk run delivery scheduling: models, complexity results, and algorithms based on Benders decomposition		random instance, github	7							1006	1308
EtminaniesfahaniGNMS22 EtminaniesfahaniGNMS22 [203]	A Forward-Backward Relax-and-Solve Algorithm for the Resource-Constrained Project Scheduling Problem		real-world	0							1007	1310
FarsiTM22 FarsiTM22 [212]	Integrated surgery scheduling by constraint programming and meta-heuristics		supplementary material	10							1008	1316
FetgoD22 FetgoD22 [215]	Horizontally Elastic Edge-Finder Algorithm for Cumulative Resource Constraint Revisited		benchmark, real-world	7							1009	1318
HeinzNVH22 HeinzNVH22 [297]	Constraint Programming and constructive heuristics for parallel machine scheduling with sequence-dependent setups and common servers		real-world, generated instance, benchmark, gitlab	3							1010	1344
HillBCGN22 HillBCGN22 [303]	Optimization Strategies for Resource-Constrained Project Scheduling Problems in Underground Mining			0							1011	No
JuvinHL22 JuvinHL22 [331]	Logic-Based Benders Decomposition for the Preemptive Flexible Job-Shop Scheduling Problem		benchmark	0							1012	1359
MartnezAJ22 MartnezAJ22 [430]	Logic-Based Benders Decomposition for Integrated Process Configuration and Production Planning Problems			0							1013	No
MullerMKP22 MullerMKP22 [453]	An algorithm selection approach for the flexible job shop scheduling problem: Choosing constraint programming solvers through machine learning		benchmark, github, random instance, real-world	3							1014	1405
NaderiBZ22 NaderiBZ22 [459]	Integrated Order Acceptance and Resource Decisions Under Uncertainty: Robust and Stochastic Approaches		benchmark, real-life	0							1015	1406
NaderiBZ22a NaderiBZ22a [458]	Type-2 integrated process-planning and scheduling problem: Reformulation and solution algorithms		benchmark	0							1016	1407

Table 7: Manually Defined ARTICLE Properties

Key	Title (Local Copy)	CP System	Bench	Links	Data Avail	Sol Avail	Code Avail	Related To	Classification	Constraints	a	b
NaderiR22 NaderiR22 [460]	Critical-Path-Search Logic-Based Benders Decomposition Approaches for Flexible Job Shop Scheduling			0							1017	No
PohlAK22 PohlAK22 [504]	Solving the time-discrete winter runway scheduling problem: A column generation and constraint programming approach		benchmark, real-world	2							1018	1429
ShiYXQ22 ShiYXQ22 [551]	Solving the integrated process planning and scheduling problem using an enhanced constraint programming-based approach			0							1019	No
SubulanC22 SubulanC22 [567]	Constraint programming-based transformation approach for a mixed fuzzy-stochastic resource investment project scheduling problem		real-world, real-life, benchmark	2							1020	1455
YunusogluY22 YunusogluY22 [650]	Constraint programming approach for multi-resource-constrained unrelated parallel machine scheduling problem with sequence-dependent setup times		real-world, generated instance, benchmark, real-life, supplementary material	10							1021	1477
YuraszeckMPV22 YuraszeckMPV22 [652]	A Novel Constraint Programming Decomposition Approach for the Total Flow Time Fixed Group Shop Scheduling Problem		real-life, generated instance, benchmark, github	5							1022	1479
abs-2211-14492 abs-2211-14492 [568]	Enhancing Constraint Programming via Supervised Learning for Job Shop Scheduling		benchmark, random instance, generated instance	1							1023	1496
AbohashimaEG21 AbohashimaEG21 [2]	A Mathematical Programming Model and a Firefly-Based Heuristic for Real-Time Traffic Signal Scheduling With Physical Constraints		real-world, generated instance, github	0							1024	1245
AbreuAPNM21 AbreuAPNM21 [167]	A new variable neighbourhood search with a constraint programming search strategy for the open shop scheduling problem with operation repetitions		benchmark, generated instance, real-world	8							1025	1246
Bedhief21 Bedhief21 [74]	Comparing Mixed-Integer Programming and Constraint Programming Models for the Hybrid Flow Shop Scheduling Problem with Dedicated Machines		real-life	0							1026	1274
CarlierSJP21 CarlierSJP21 [137]	A faster checker of the energetic reasoning for the cumulative scheduling problem			0							1027	No
FanXG21 FanXG21 [211]	Genetic programming-based hyper-heuristic approach for solving dynamic job shop scheduling problem with extended technical precedence constraints		benchmark	0							1028	1315
HamPK21 HamPK21 [277]	Energy-Aware Flexible Job Shop Scheduling Using Mixed Integer Programming and Constraint Programming		github, benchmark	4							1029	1338
HubnerGSV21 HubnerGSV21 [320]	Solving the nuclear dismantling project scheduling problem by combining mixed-integer and constraint programming techniques and metaheuristics		benchmark, real-life	4							1030	1354

Table 7: Manually Defined ARTICLE Properties

Key	Title (Local Copy)	CP System	Bench	Links	Data Avail	Sol Avail	Code Avail	Related To	Classification	Constraints	a	b
KoehlerBFFHPSSS21 KoehlerBFFH-PSSS21 [350]	Cable tree wiring - benchmarking solvers on a real-world scheduling problem with a variety of precedence constraints	CP Opt OR-Tools Chuffed Cplex Gurobi Z3 OptiMathSat	real-world, benchmark, github	9	DZN		y	-	CTW	alldifferent inverse	1031	1365
NaderiRBAU21 NaderiRBAU21 [461]	Increased Surgical Capacity without Additional Resources: Generalized Operating Room Planning and Scheduling			0							1032	No
PandeyS21a PandeyS21a [491]	Constraint programming versus heuristic approach to MapReduce scheduling problem in Hadoop YARN for energy minimization		benchmark	1							1033	1424
QinWSLS21 QinWSLS21 [513]	A Genetic Programming-Based Scheduling Approach for Hybrid Flow Shop With a Batch Processor and Waiting Time Constraint			0							1034	1434
VlkHT21 VlkHT21 [625]	Constraint programming approaches to joint routing and scheduling in time-sensitive networks		github, benchmark, industrial partner, random instance	0							1035	1470
ZhangYW21 ZhangYW21 [661]	A graph-based constraint programming approach for the integrated process planning and scheduling problem		benchmark	0							1036	1485
abs-2102-08778 abs-2102-08778 [156]	Large-Scale Benchmarks for the Job Shop Scheduling Problem		benchmark, real-life, real-world, generated instance	0							1037	1495
AlizdehS20 AlizdehS20 [16]	Fuzzy project scheduling with critical path including risk and resource constraints using linear programming			0							1038	No
AntunesABD20 AntunesABD20 [20]	Assigning and Scheduling Service Visits in a Mixed Urban/Rural Setting		real-world, industrial partner	1							1039	1255
AstrandJZ20 AstrandJZ20 [38]	Underground mine scheduling of mobile machines using Constraint Programming and Large Neighborhood Search		benchmark, real-life, real-world	0							1040	1258
BadicaBI20 BadicaBI20 [39]	Block structured scheduling using constraint logic programming		real-world, benchmark	5							1041	1259
BenediktMH20 BenediktMH20 [86]	Power of pre-processing: production scheduling with variable energy pricing and power-saving states	CP Opt Gurobi	benchmark, random instance, github, generated instance	4	JSON		y				1042	1279
CauwelaertDS20 CauwelaertDS20 [143]	An Efficient Filtering Algorithm for the Unary Resource Constraint with Transition Times and Optional Activities		benchmark, real-life, bit-bucket, generated instance	2							1043	1295
FallahiAC20 FallahiAC20 [210]	Tabu search and constraint programming-based approach for a real scheduling and routing problem		github, real-life	0							1044	1314
GuoHLW20 GuoHLW20 [270]	Logic-based Benders decomposition for gantry crane scheduling with transferring position constraints in a rail-road container terminal			0							1045	No

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Key	Title (Local Copy)	CP System	Bench	Links	Data Avail	Sol Avail	Code Avail	Related To	Classification	Constraints	a	b
HauderBRPA20 HauderBRPA20 [285]	Resource-constrained multi-project scheduling with activity and time flexibility		real-world, industry partner, benchmark, supplementary material	0							1046	1341
LunardiBLRV20 LunardiBLRV20 [415]	Mixed Integer linear programming and constraint programming models for the online printing shop scheduling problem		benchmark, random instance, generated instance, github	1							1047	1390
MejiaY20 MejiaY20 [433]	A self-tuning variable neighborhood search algorithm and an effective decoding scheme for open shop scheduling problems with travel/setup times		supplementary material, benchmark, generated instance	2							1048	1395
MengZRZL20 MengZRZL20 [437]	Mixed-integer linear programming and constraint programming formulations for solving distributed flexible job shop scheduling problem		benchmark, supplementary material	0							1049	1398
MokhtarzadehTNF20 MokhtarzadehTNF20 [445]	Scheduling of human-robot collaboration in assembly of printed circuit boards: a constraint programming approach		generated instance, real-world	12							1050	1402
Polo-MejiaALB20 Polo-MejiaALB20 [505]	Mixed-integer/linear and constraint programming approaches for activity scheduling in a nuclear research facility		Roadef, github	2							1051	1430
QinDCS20 QinDCS20 [514]	Combining mixed integer programming and constraint programming to solve the integrated scheduling problem of container handling operations of a single vessel		real-life, benchmark	0							1052	1433
RoshanaeiBAUB20 RoshanaeiBAUB20 [523]	Branch-and-check methods for multi-level operating room planning and scheduling		benchmark, generated instance, real-world	0							1053	1437
SacramentoSP20 SacramentoSP20 [528]	Constraint Programming and Local Search Heuristic: a Matheuristic Approach for Routing and Scheduling Feeder Vessels in Multi-terminal Ports		benchmark, real-life, zenodo, real-world	4							1054	1440
WallaceY20 WallaceY20 [629]	A new constraint programming model and solving for the cyclic hoist scheduling problem	MiniZinc	random instance, real-world, real-life, benchmark	2	DZN		y		CHSP		1055	1472
ZarandiASC20 ZarandiASC20 [656]	A state of the art review of intelligent scheduling		real-world, benchmark, real-life	0							1056	1480
ZouZ20 ZouZ20 [671]	A constraint programming approach for scheduling repetitive projects with atypical activities considering soft logic		benchmark	3							1057	1488
ArkipovBL19 ArkipovBL19 [25]	An efficient pseudo-polynomial algorithm for finding a lower bound on the makespan for the Resource Constrained Project Scheduling Problem		benchmark	1							1058	1256
EdwardsBSE19 EdwardsBSE19 [194]	Symmetry breaking of identical projects in the high-multiplicity RCPSP/max			0							1059	No
EscobetPQPRA19 EscobetPQPRA19 [202]	Optimal batch scheduling of a multiproduct dairy process using a combined optimization/constraint programming approach			1							1060	1309

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Key	Title (Local Copy)	CP System	Bench	Links	Data Avail	Sol Avail	Code Avail	Related To	Classification	Constraints	a	b
GurEA19 GurEA19 [672]	Surgical Operation Scheduling with Goal Programming and Constraint Programming: A Case Study		real-life	11							1061	1331
HoundjiSW19 HoundjiSW19 [318]	The item dependent stockingcost constraint		random instance, bit-bucket, benchmark	2							1062	1353
NattafDYW19 NattafDYW19 [467]	Parallel machine scheduling with time constraints on machine qualifications		benchmark	0							1063	1412
NattafHKAL19 NattafHKAL19 [468]	Polyhedral results and valid inequalities for the continuous energy-constrained scheduling problem		benchmark, real-life	0							1064	1413
NishikawaSTT19 NishikawaSTT19 [474]	A Constraint Programming Approach to Scheduling of Malleable Tasks		real-world, benchmark	0							1065	1414
Novas19 Novas19 [476]	Production scheduling and lot streaming at flexible job-shops environments using constraint programming		benchmark	0							1066	1416
WariZ19 WariZ19 [633]	A Constraint Programming model for food processing industry: a case for an ice cream processing facility			0							1067	No
WikarekS19 WikarekS19 [636]	A Constraint-Based Declarative Programming Framework for Scheduling and Resource Allocation Problems			0							1068	1474
YounespourAKE19 YounespourAKE19 [647]	Using mixed integer programming and constraint programming for operating rooms scheduling with modified block strategy		real-life, real-world	6							1069	1476
abs-1901-07914 abs-1901-07914 [77]	A Constraint Programming Approach to Simultaneous Task Allocation and Motion Scheduling for Industrial Dual-Arm Manipulation Tasks		benchmark, real-world, github	0							1070	1491
abs-1902-01193 abs-1902-01193 [14]	Solving Nurse Scheduling Problem Using Constraint Programming Technique			0							1071	1492
abs-1902-09244 abs-1902-09244 [284]	On constraint programming for a new flexible project scheduling problem with resource constraints		benchmark, industry partner, real-world	0							1072	1493
abs-1911-04766 abs-1911-04766 [237]	Investigating Constraint Programming and Hybrid Methods for Real World Industrial Test Laboratory Scheduling		real-world, benchmark, github, real-life, instance generator, generated instance, industrial partner	10							1073	1494
BaptisteB18 BaptisteB18 [46]	Redundant cumulative constraints to compute preemptive bounds			1							1074	1263
BorghesiBLMB18 BorghesiBLMB18 [116]	Scheduling-based power capping in high performance computing systems		benchmark, real-life	3							1075	1289
CauwelaertLS18 CauwelaertLS18 [142]	How efficient is a global constraint in practice? - A fair experimental framework		benchmark, bit-bucket	1							1076	1296
FahimiOQ18 FahimiOQ18 [207]	Linear-time filtering algorithms for the disjunctive constraint and a quadratic filtering algorithm for the cumulative not-first not-last	Choco	benchmark, random instance	0	(y)		n		RCPSp	disjunctive cumulative	1077	1312
GedikKEK18 GedikKEK18 [235]	A constraint programming approach for solving unrelated parallel machine scheduling problem		benchmark	9							1078	1322
GokgurHO18 GokgurHO18 [251]	Parallel machine scheduling with tool loading: a constraint programming approach		real-world, real-life	9							1079	1324

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GoldwaserS18 GoldwaserS18 [253]	Optimal Torpedo Scheduling		github, generated instance, instance generator, benchmark	0							1080	1325
GombolayWS18 GombolayWS18 [255]	Fast Scheduling of Robot Teams Performing Tasks With Temporospacial Constraints		real-world, instance generator, benchmark	0							1081	1326
Ham18 Ham18 [275]	Integrated scheduling of m-truck, m-drone, and m-depot constrained by time-window, drop-pickup, and m-visit using constraint programming			7							1082	1335
Ham18a Ham18a [276]	Scheduling of Dual Resource Constrained Lithography Production: Using CP and MIP/CP		real-world	0							1083	1336
KreterSSZ18 KreterSSZ18 [366]	Mixed-integer linear programming and constraint programming formulations for solving resource availability cost problems		benchmark	6							1084	1371
LaborieRSV18 LaborieRSV18 [374]	IBM ILOG CP optimizer for scheduling - 20+ years of scheduling with constraints at IBM/ILOG	OP Opt	real-world, CSPLib, benchmark	3	-		-	-	-	-	1085	1375
PourDERB18 PourDERB18 [507]	A hybrid Constraint Programming/Mixed Integer Programming framework for the preventive signaling maintenance crew scheduling problem		real-world, real-life, benchmark, generated instance	1							1086	1431
ShinBBHO18 ShinBBHO18 [552]	Discrete-Event Simulation and Integer Linear Programming for Constraint-Aware Resource Scheduling		real-world, github	4							1087	1449
TangLWSK18 TangLWSK18 [576]	Scheduling Optimization of Linear Schedule with Constraint Programming			0							1088	1457
TranPZLDB18 TranPZLDB18 [599]	Multi-stage resource-aware scheduling for data centers with heterogeneous servers		benchmark, generated instance	2							1089	1465
ZhangW18 ZhangW18 [662]	Flexible Assembly Job-Shop Scheduling With Sequence-Dependent Setup Times and Part Sharing in a Dynamic Environment: Constraint Programming Model, Mixed-Integer Programming Model, and Dispatching Rules		benchmark	0							1090	1484
GomesM17 GomesM17 [257]	Improved Combinatorial Benders Decomposition for a Scheduling Problem with Unrelated Parallel Machines			1							1091	1327
HookerH17 HookerH17 [316]	Constraint programming and operations research		real-world, real-life	1							1092	1351
KreterSS17 KreterSS17 [365]	Using constraint programming for solving RCPSP/max-cal	MiniZinc Chuffed Cplex	benchmark	5	dead			[364]	RCPSP	cumulative cumulativeCalend.	1093	1370
NattafAL17 NattafAL17 [465]	Cumulative scheduling with variable task profiles and concave piecewise linear processing rate functions		real-world	2	n		n	-	CECSP	-	1094	1410
RoshanaeiLAU17 RoshanaeiLAU17 [524]	Propagating logic-based Benders' decomposition approaches for distributed operating room scheduling		real-world	1							1095	1438
RoshanaeiLAU17a RoshanaeiLAU17a [525]	Collaborative Operating Room Planning and Scheduling			0							1096	No
TranVNB17 TranVNB17 [601]	Robots in Retirement Homes: Applying Off-the-Shelf Planning and Scheduling to a Team of Assistive Robots		real-world	0							1097	1466

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Key	Title (Local Copy)	CP System	Bench	Links	Data Avail	Sol Avail	Code Avail	Related To	Classification	Constraints	a	b
BlomPS16 BlomPS16 [100]	A Decomposition-Based Algorithm for the Scheduling of Open-Pit Networks Over Multiple Time Periods		industry partner, benchmark	0							1098	1285
Bonfietti16 Bonfietti16 [106]	A constraint programming scheduling solver for the MPOpt programming environment		benchmark	10							1099	1287
BridiBLMB16 BridiBLMB16 [121]	A Constraint Programming Scheduler for Heterogeneous High-Performance Computing Machines		real-life, real-world	0							1100	1291
CireCH16 CireCH16 [151]	Logic-based Benders decomposition for planning and scheduling: a computational analysis			1							1101	1298
DoulabiRP16 DoulabiRP16 [191]	A Constraint-Programming-Based Branch-and-Price-and-Cut Approach for Operating Room Planning and Scheduling		real-world, generated instance	3							1102	1306
HamC16 HamC16 [278]	Flexible job shop scheduling problem with parallel batch processing machines: MIP and CP approaches		benchmark	2							1103	1337
HebrardHJMPV16 HebrardHJMPV16 [288]	Approximation of the parallel machine scheduling problem with additional unit resources		industrial partner	0							1104	1342
KuB16 KuB16 [367]	Mixed Integer Programming models for job shop scheduling: A computational analysis		benchmark	4							1105	1372
NattafALR16 NattafALR16 [466]	Energetic reasoning and mixed-integer linear programming for scheduling with a continuous resource and linear efficiency functions		generated instance	1							1106	1411
NovaraNH16 NovaraNH16 [475]	A novel constraint programming model for large-scale scheduling problems in multiproduct multistage batch plants: Limited resources and campaign-based operation		CSPlib, benchmark	5							1107	1415
TranAB16 TranAB16 [596]	Decomposition Methods for the Parallel Machine Scheduling Problem with Setups		benchmark	0							1108	1464
ZarandiKS16 ZarandiKS16 [655]	A constraint programming model for the scheduling of JIT cross-docking systems with preemption		real-world	0							1109	1481
BajestaniB15 BajestaniB15 [43]	A two-stage coupled algorithm for an integrated maintenance planning and flowshop scheduling problem with deteriorating machines		real-world	0							1110	1261
EvenSH15a EvenSH15a [205]	A Constraint Programming Approach for Non-Preemptive Evacuation Scheduling		real-world, real-life	2							1111	1311
GoelSHFS15 GoelSHFS15 [250]	Constraint programming for LNG ship scheduling and inventory management			0							1112	1323
GrimesH15 GrimesH15 [260]	Solving Variants of the Job Shop Scheduling Problem Through Conflict-Directed Search		real-world, benchmark	0							1113	1328
Kameugne15 Kameugne15 [336]	Propagation techniques of resource constraint for cumulative scheduling	-		2	-		-	PhDThesis	RCPSP		1114	1361
LetortCB15 LetortCB15 [387]	Synchronized sweep algorithms for scalable scheduling constraints	Choco SICStus	generated instance, Roadev, benchmark, random instance	4	dead		-	[386]	-	cumulative dimCumulative dimCumulativePr	1115	1378
NattafAL15 NattafAL15 [464]	A hybrid exact method for a scheduling problem with a continuous resource and energy constraints	Cplex	generated instance	1	n		n		CSCSP		1116	1409
SchnellH15 SchnellH15 [535]	On the efficient modeling and solution of the multi-mode resource-constrained project scheduling problem with generalized precedence relations		real-life, benchmark, supplementary material	3							1117	1445

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Siala15 Siala15 [553]	Search, propagation, and learning in sequencing and scheduling problems	-	real-world, github, bench- mark, random instance, Roadev, CSPLib	2	-		-	PhD Thesis			1118	1450
SimoninAHL15 SimoninAHL15 [557]	Scheduling scientific experiments for comet exploration	MOST Ilog Scheduler		0	n		n	[556]		cumulative dataTransfer	1119	1451
WangMD15 WangMD15 [632]	Scheduling operating theatres: Mixed integer programming vs. constraint programming		real-life, real-world	2							1120	1473
BlomBPS14 BlomBPS14 [99]	A Decomposition-Based Heuristic for Collaborative Scheduling in a Network of Open-Pit Mines		industry partner, benchmark	0							1121	1284
BonfiettiLBM14 BonfiettiLBM14 [109]	CROSS cyclic resource-constrained scheduling solver		benchmark, real-world, generated instance, industrial instance	0							1122	1288
GrimesIOS14 GrimesIOS14 [262]	Analyzing the impact of electricity price forecasting on energy cost-aware scheduling		real-world, real-life	9							1123	1329
HarjunkoskiMBC14 HarjunkoskiMBC14 [281]	Scope for industrial applications of production scheduling models and solution methods		real-life, benchmark, real-world	3							1124	1340
KameugneFSN14 KameugneFSN14 [340]	A quadratic edge-finding filtering algorithm for cumulative resource constraints	Gecode	benchmark, random instance	2	y			[339]	CuSP	cumulative	1125	1362
Novash14 Novash14 [479]	Integrated scheduling of resource-constrained flexible manufacturing systems using constraint programming		benchmark	0							1126	1419
TerekhovTDB14 TerekhovTDB14 [583]	Integrating Queueing Theory and Scheduling for Dynamic Scheduling Problems		real-world	0							1127	1459
ThiruvadyWGS14 ThiruvadyWGS14 [587]	A Lagrangian relaxation and ACO hybrid for resource constrained project scheduling with discounted cash flows		benchmark	0							1128	1460
BajestaniB13 BajestaniB13 [42]	Scheduling a Dynamic Aircraft Repair Shop with Limited Repair Resources			0							1129	1260
BegB13 BegB13 [75]	A constraint programming approach for integrated spatial and temporal scheduling for clustered architectures		benchmark	0							1130	1275
HeinzSB13 HeinzSB13 [296]	Using dual presolving reductions to reformulate cumulative constraints	Cplex SCIP	benchmark	1	ref		-	-	RCPSP RCPSP/max	cumulative	1131	1345
LombardiMB13 LombardiMB13 [409]	Robust Scheduling of Task Graphs under Execution Time Uncertainty		benchmark, real-world	0							1132	1385
MenciaSV13 MenciaSV13 [436]	Intensified iterative deepening A* with application to job shop scheduling		real-life, supplementary material, benchmark	0							1133	1397
OzturkTHO13 OzturkTHO13 [490]	Balancing and scheduling of flexible mixed model assembly lines	Ilog Solver Ilog Scheduler Cplex	real-world, real-life	2	y		-	-	SBSFMMAL	alddifferent disjunctive	1134	1423
SchuttFSW13 SchuttFSW13 [543]	Solving RCPSP/max by lazy clause generation		supplementary material, benchmark	6							1135	1447
GuyonLPR12 GuyonLPR12 [273]	Solving an integrated job-shop problem with human resource constraints		generated instance, benchmark, instance generator	0							1136	1333

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HeinzSSW12	Solving steel mill slab design problems		real-world,	2	Cplex		dead	-	SMSDP	-	1137	1346
HeinzSSW12 [294]			CSPLib									
LimtanyakulS12	Improvements of constraint programming and	Cplex	real-life, gener-	1	dead		-	-			1138	1381
LimtanyakulS12 [395]	hybrid methods for scheduling of tests on vehicle prototypes	Ilog Scheduler	ated instance, industrial partner, benchmark, random instance									
LombardiM12	Optimal methods for resource allocation and scheduling; a cross-disciplinary survey	-	real-world, benchmark	0	-		-	-	survey	-	1139	1383
LombardiM12 [407]												
LombardiM12a	A min-flow algorithm for Minimal Critical Set detection in Resource Constrained Project Scheduling		benchmark	1							1140	1384
LombardiM12a [406]												
MalapertCGJLR12	An Optimal Constraint Programming Approach to the Open-Shop Problem		benchmark	3							1141	1391
MalapertCGJLR12 [423]												
MenciaSV12	Depth-first heuristic search for the job shop scheduling problem		real-life, bench-	1							1142	1396
MenciaSV12 [435]			mark									
NovashH12	A comprehensive constraint programming approach for the rolling horizon-based scheduling of automated wet-etch stations			0							1143	1418
NovashH12 [478]												
TerekhovDOB12	Solving two-machine assembly scheduling problems with inventory constraints		real-life	2							1144	1458
TerekhovDOB12 [582]												
ZarandiB12	Using Logic-Based Benders Decomposition to Solve the Capacity- and Distance-Constrained Plant Location Problem			0							1145	No
ZarandiB12 [214]												
BandaSC11	Solving Talent Scheduling with Dynamic Programming		benchmark, CSPLib, random instance	0							1146	1262
BandaSC11 [171]												
BartakS11	Constraint satisfaction for planning and scheduling problems	-	random in-	2	-		-		survey		1147	1266
BartakS11 [57]			stance, real-world, real-life									
BeckFW11	Combining Constraint Programming and Local Search for Job-Shop Scheduling		benchmark, real-world	0							1148	1271
BeckFW11 [66]												
BeldiceanuCDP11	New filtering for the <i>cumulative</i> constraint in the context of non-overlapping rectangles		benchmark	1							1149	1277
BeldiceanuCDP11 [80]												
BeniniLMR11	Optimal resource allocation and scheduling for the CELL BE platform		real-world, benchmark, in-	0							1150	1280
BeniniLMR11 [90]			stance generator									
CobanH11	Single-facility scheduling by logic-based Benders decomposition		random instance	0							1151	1299
CobanH11 [154]												
EdisO11a	A combined integer/constraint programming approach to a resource-constrained parallel machine scheduling problem with machine eligibility restrictions			0							1152	No
EdisO11a [193]												
HachemiGR11	A hybrid constraint programming approach to the log-truck scheduling problem			1							1153	1334
HachemiGR11 [274]												
HeckmanB11	Understanding the behavior of Solution-Guided Search for job-shop scheduling		real-world, benchmark	0							1154	1343
HeckmanB11 [291]												
KelbelH11	Solving production scheduling with earliness/tardiness penalties by constraint programming		generated instance, bench-	3							1155	1363
KelbelH11 [343]			mark, random instance									
KovacsB11	A global constraint for total weighted completion time for unary resources	Ilog Scheduler	benchmark	2	n		n	-		Completion	1156	1368
KovacsB11 [358]												
KovacsK11	Constraint programming approach to a bilevel scheduling problem	Ilog Solver		2	n		n	-	Bilevel Opt		1157	1369
KovacsK11 [360]												

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SchausHMCMD11 SchausHMCMD11 [533]	Solving Steel Mill Slab Problems with constraint-based techniques: CP, LNS, and CBLs	Comet	benchmark,	3	dead				SMSDP		1158	1443
SchuttFSW11 SchuttFSW11 [542]	Explaining the cumulative propagator	MiniZinc	real-world, generated instance benchmark	7	PSPLib		-	-	RCPSP	cumulative	1159	1446
TopalogluO11 TopalogluO11 [592]	A constraint programming-based solution approach for medical resident scheduling problems		real-life	2							1160	1462
TrojetHL11 TrojetHL11 [604]	Project scheduling under resource constraints: Application of the cumulative global constraint in a decision support framework		real-world	2							1161	1467
BartakCS10 BartakCS10 [56]	Discovering implied constraints in precedence graphs with alternatives		real-life, benchmark, real-world	3							1162	1265
BartakSR10 BartakSR10 [58]	New trends in constraint satisfaction, planning, and scheduling: a survey		real-life, real-world	0							1163	1267
ChenGPSH10 ChenGPSH10 [147]	Technology and system of constraint programming for industry production scheduling — Part I: A brief survey and potential directions		real-life	0							1164	1297
LombardiM10a LombardiM10a [404]	Allocation and scheduling of Conditional Task Graphs		benchmark, real-life, real-world	3							1165	1382
LombardiMRB10 LombardiMRB10 [410]	Stochastic allocation and scheduling for conditional task graphs in multi-processor systems-on-chip		real-world, real-life, benchmark	15							1166	1386
LopesCSM10 LopesCSM10 [411]	A hybrid model for a multiproduct pipeline planning and scheduling problem	Ilog Solver	benchmark, real-world	2	-		-	[452, 451]			1167	1387
NovashH10 NovashH10 [477]	Reactive scheduling framework based on domain knowledge and constraint programming			0							1168	1417
ZeballosQH10 ZeballosQH10 [658]	A constraint programming model for the scheduling of flexible manufacturing systems with machine and tool limitations		real-world, benchmark	4							1169	1483
abs-1009-0347 abs-1009-0347 [541]	Solving the Resource Constrained Project Scheduling Problem with Generalized Precedences by Lazy Clause Generation		benchmark, instance generator	0							1170	1490
BidotVLB09 BidotVLB09 [94]	A theoretic and practical framework for scheduling in a stochastic environment		real-world, real-life	0							1171	1282
BocewiczBB09 BocewiczBB09 [101]	Logic-algebraic method based and constraints programming driven approach to AGVs scheduling			0							1172	1286
CarchraeB09 CarchraeB09 [132]	Principles for the Design of Large Neighborhood Search		benchmark, real-world	2							1173	1294
GarridoAO09 GarridoAO09 [229]	A constraint programming formulation for planning: from plan scheduling to plan generation		benchmark	8							1174	1320
Jans09 Jans09 [326]	Solving Lot-Sizing Problems on Parallel Identical Machines Using Symmetry-Breaking Constraints		benchmark	27							1175	1358
MilanoW09 MilanoW09 [443]	Integrating Operations Research in Constraint Programming		benchmark	7							1176	1401
OhrimenkoSC09 OhrimenkoSC09 [485]	Propagation via lazy clause generation		benchmark	8							1177	1422
RuggieroBBMA09 RuggieroBBMA09 [527]	Reducing the Abstraction and Optimality Gaps in the Allocation and Scheduling for Variable Voltage/Frequency MPSoC Platforms		instance generator, real-life	0							1178	1439

Table 7: Manually Defined ARTICLE Properties

Key	Title (Local Copy)	CP System	Bench	Links	Data Avail	Sol Avail	Code Avail	Related To	Classification	Constraints	a	b
WuBB09 WuBB09 [645]	Scheduling with uncertain durations: Modeling beta-robust scheduling with constraints		real-world	0							1179	1475
abs-0907-0939 abs-0907-0939 [501]	The Soft Cumulative Constraint		real-world	0							1180	1489
GarridoOS08 GarridoOS08 [230]	Planning and scheduling in an e-learning environment. A constraint-programming-based approach		real-world	0							1181	1321
KovacsB08 KovacsB08 [357]	A global constraint for total weighted completion time for cumulative resources		benchmark	0							1182	1367
LiW08 LiW08 [388]	Scheduling projects with multi-skilled personnel by a hybrid MILP/CP benders decomposition algorithm		real-world	1							1183	1379
LiessM08 LiessM08 [390]	A constraint programming approach for the resource-constrained project scheduling problem		benchmark	0							1184	1380
MalikMB08 MalikMB08 [427]	Optimal Basic Block Instruction Scheduling for Multiple-Issue Processors Using Constraint Programming		benchmark	0							1185	1392
MercierH08 MercierH08 [438]	Edge Finding for Cumulative Scheduling			0							1186	1399
Beck07 Beck07 [64]	Solution-Guided Multi-Point Constructive Search for Job Shop Scheduling		benchmark	0							1187	1268
BeckW07 BeckW07 [73]	Proactive Algorithms for Job Shop Scheduling with Probabilistic Durations		benchmark	0							1188	1273
CorreaLR07 CorreaLR07 [159]	Scheduling and routing of automated guided vehicles: A hybrid approach		real-world	0							1189	1301
Hooker07 Hooker07 [311]	Planning and Scheduling by Logic-Based Benders Decomposition		random instance, generated instance	0							1190	1350
Rodriguez07 Rodriguez07 [522]	A constraint programming model for real-time train scheduling at junctions		real-life	2							1191	1435
Simonis07 Simonis07 [561]	Models for Global Constraint Applications	CHIP		0	n		n			cumulative diffn cycle	1192	1452
Hooker06 Hooker06 [310]	An Integrated Method for Planning and Scheduling to Minimize Tardiness	OPL Cplex Ilog Scheduler	random instance	2	n		n	[309]	CuSP	inverse cumulative	1193	1349
KhayatLR06 KhayatLR06 [345]	Integrated production and material handling scheduling using mathematical programming and constraint programming		real-life, benchmark	1							1194	1364
MilanoW06 MilanoW06 [442]	Integrating operations research in constraint programming		benchmark	0							1195	1400
SadykovW06 SadykovW06 [530]	Integer Programming and Constraint Programming in Solving a Multimachine Assignment Scheduling Problem with Deadlines and Release Dates		generated instance	1							1196	1441
SureshMOK06 SureshMOK06 [570]	Divisible load scheduling in distributed system with buffer constraints: genetic algorithm and linear programming approach			0							1197	1456
DemasseAM05 DemasseAM05 [177]	Constraint-Propagation-Based Cutting Planes: An Application to the Resource-Constrained Project Scheduling Problem		benchmark	2							1198	1304
Hooker05 Hooker05 [308]	A Hybrid Method for the Planning and Scheduling	OPL Cplex Ilog Scheduler	random instance	0	n		n	[307]	CuSP	cumulative	1199	1348

Table 7: Manually Defined ARTICLE Properties

Key	Title (Local Copy)	CP System	Bench	Links	Data Avail	Sol Avail	Code Avail	Related To	Classification	Constraints	a	b
VilimBC05 VilimBC05 [622]	Extension of $O(n \log n)$ Filtering Algorithms for the Unary Resource Constraint to Optional Activities		benchmark, real-life	0	n		n	[621]	JSSP	disjunctive	1200	1469
ZeballosH05 ZeballosH05 [657]	A Constraint Programming Approach to FMS Scheduling. Consideration of Storage and Transportation Resources			0							1201	1482
PoderBS04 PoderBS04 [503]	Computing a lower approximation of the compulsory part of a task with varying duration and varying resource consumption			0							1202	1428
BeckR03 BeckR03 [70]	A Hybrid Approach to Scheduling with Earliness and Tardiness Costs		benchmark	0							1203	1272
HookerO03 HookerO03 [315]	Logic-based Benders decomposition		generated instance	0							1204	1352
KuchcinskiW03 KuchcinskiW03 [368]	Global approach to assignment and scheduling of complex behaviors based on HCDG and constraint programming		benchmark	0							1205	1373
Laborie03 Laborie03 [371]	Algorithms for propagating resource constraints in AI planning and scheduling: Existing approaches and new results		benchmark	0							1206	1374
Tsang03 Tsang03 [605]	Constraint Based Scheduling: Applying Constraint Programming to Scheduling Problems		real-life	0							1207	1468
HarjunkskiG02 HarjunkskiG02 [280]	Decomposition techniques for multistage scheduling problems using mixed-integer and constraint programming methods			0							1208	1339
LorigeonBB02 LorigeonBB02 [413]	A dynamic programming algorithm for scheduling jobs in a two-machine open shop with an availability constraint			0							1209	1389
MilanoORT02 MilanoORT02 [441]	The Role of Integer Programming Techniques in Constraint Programming's Global Constraints			0							1210	No
RodriguezDG02 RodriguezDG02 [521]	Railway infrastructure saturation using constraint programming approach			0							1211	1436
Timpe02 Timpe02 [590]	Solving planning and scheduling problems with combined integer and constraint programming			0							1212	1461
JainG01 JainG01 [325]	Algorithms for Hybrid MILP/CP Models for a Class of Optimization Problems			0							1213	1356
MartinPY01 MartinPY01 [429]	Cane Railway Scheduling via Constraint Logic Programming: Labelling Order and Constraints in a Real-Life Application		real-life	0							1214	1393
Mason01 Mason01 [431]	Elastic Constraint Branching, the Wedelin/Carmen Lagrangian Heuristic and Integer Programming for Personnel Scheduling			0							1215	1394
ArtiguesR00 ArtiguesR00 [33]	A polynomial activity insertion algorithm in a multi-resource schedule with cumulative constraints and multiple modes			0							1216	1257
BaptisteP00 BaptisteP00 [49]	Constraint Propagation and Decomposition Techniques for Highly Disjunctive and Highly Cumulative Project Scheduling Problems	CLAIRE	benchmark	0	n		n		RCCSP	cumulative	1217	1264
BeckF00 BeckF00 [68]	Dynamic problem structure analysis as a basis for constraint-directed scheduling heuristics		real-world, benchmark	0							1218	1269
HeipckeCCS00 HeipckeCCS00 [299]	Scheduling under Labour Resource Constraints	COME SchedEns	benchmark, instance generator	0	dead		n	-			1219	1347
KorbaaYG00 KorbaaYG00 [354]	Solving Transient Scheduling Problems with Constraint Programming			0							1220	1366

Table 7: Manually Defined ARTICLE Properties

Key	Title (Local Copy)	CP System	Bench	Links	Data Avail	Sol Avail	Code Avail	Related To	Classification	Constraints	a	b
LopezAKYG00 LopezAKYG00 [412]	Discussion on: 'Solving Transient Scheduling Problems with Constraint Programming' by O. Korbaa, P. Yim, and J.-C. Gentina			0							1221	1388
SakkoutW00 SakkoutW00 [531]	Probe Backtrack Search for Minimal Perturbation in Dynamic Scheduling	Cplex ECLiPSe	benchmark, real-world	0	n		n	-	KRFP		1222	1442
SchildW00 SchildW00 [534]	Scheduling of Time-Triggered Real-Time Systems	OZ		0	n		n	-		disjunctive	1223	1444
SimonisCK00 SimonisCK00 [562]	Constraint Handling in an Integrated Transportation Problem			0							1224	1453
SourdN00 SourdN00 [565]	Multiple-Machine Lower Bounds for Shop-Scheduling Problems		real-life, bench- mark	1							1225	1454
TorresL00 TorresL00 [593]	On Not-First/Not-Last conditions in disjunctive scheduling		benchmark	0							1226	1463
BensanaLV99 BensanaLV99 [91]	Earth Observation Satellite Management	Ilog Solver	benchmark	0	?		-	-			1227	1281
JainM99 JainM99 [324]	Deterministic job-shop scheduling: Past, present and future		benchmark, real-world, real-life	0							1228	1357
BeckF98 BeckF98 [67]	A Generic Framework for Constraint-Directed Search and Scheduling		real-world, benchmark	0							1229	1270
BelhadjiI98 BelhadjiI98 [83]	Temporal Constraint Satisfaction Techniques in Job Shop Scheduling Problem Solving	-	real-life	0	n		n	-	TCSP JSSP		1230	1278
NuijtenP98 NuijtenP98 [481]	Constraint-Based Job Shop Scheduling with \sc Ilog Scheduler		real-life	0							1231	1421
PapaB98 PapaB98 [494]	Resource Constraints for Preemptive Job-shop Scheduling	Ilog Solver Claire	benchmark	0	dead		-	-	PJSSP	disjunctive flow	1232	1425
Darby-DowmanLMZ97 Darby-DowmanLMZ97 [164]	Constraint Logic Programming and Integer Programming Approaches and Their Collaboration in Solving an Assignment Scheduling Problem	Cplex ECLiPSe	real-life, real-world, bench- mark	0	n		n	-	MGAP		1233	1303
FalaschiGMP97 FalaschiGMP97 [209]	Constraint Logic Programming with Dynamic Scheduling: A Semantics Based on Closure Operators			0							1234	1313
LammaMM97 LammaMM97 [379]	A distributed constraint-based scheduler		real-life	0							1235	1377
Zhou97 Zhou97 [665]	A Permutation-Based Approach for Solving the Job-Shop Problem	-	benchmark	0	n		n	[664]	JSSP	sort alldifferent permutation	1236	1486
BlazewiczDP96 BlazewiczDP96 [126]	The job shop scheduling problem: Conventional and new solution techniques		benchmark	0							1237	1283
NuijtenA96 NuijtenA96 [482]	A computational study of constraint satisfaction for multiple capacitated job shop scheduling			0							1238	1420
Wallace96 Wallace96 [627]	Practical Applications of Constraint Programming	-		0	-		-	-	Survey	-	1239	1471
BeldiceanuC94 BeldiceanuC94 [78]	Introducing Global Constraints in CHIP		real-world, real-life, benchmark	0							1240	1276
Pape94 Pape94 [492]	Implementation of resource constraints in ILOG SCHEDULE: a library for the development of constraint-based scheduling systems			0							1241	1426
AggounB93 AggounB93 [9]	Extending CHIP in order to solve complex scheduling and placement problems		real-world	0							1242	1252
Tay92 Tay92 [580]	COPS: A Constraint Programming Approach to Resource-Limited Project Scheduling			0							1243	No
DincbasSH90 DincbasSH90 [185]	Solving Large Combinatorial Problems in Logic Programming		real-life	0							1244	1305

4 Authors

Table 8: Co-Authors of Articles/Papers

Author	Nr Works	Nr Cites	Entries
J. Christopher Beck	49	701	LuoB22 [418], ZhangBB22 [660], TangB20 [575], RoshanaeiBAUB20 [523], TranPZLDB18 [599], TranVNB17 [601], TranVNB17a [602], CohenHB17 [155], BoothNB16 [115], KuB16 [367], TranAB16 [596], TranWDRFOVB16 [603], LuoVLBM16 [417], TranDRFWOVB16 [598], BajestaniB15 [43], KoschB14 [355], TerekhovTDB14 [583], LouieVNB14 [414], HeinzSB13 [296], HeinzKB13 [293], BajestaniB13 [42], TranTDB13 [600], HeinzB12 [292], TerekhovDOB12 [582], TranB12 [597], ZarandiB12 [214], KovacsB11 [358], BeckFW11 [66], HeckmanB11 [291], BajestaniB11 [41], WuBB09 [645], BidotVLB09 [94], CarchraeB09 [132], WatsonB08 [634], KovacsB08 [357], BeckW07 [73], Beck07 [64], KovacsB07 [356], Beck06 [63], CarchraeBF05 [133], WuBB05 [644], BeckW05 [72], BeckW04 [71], BeckR03 [70], BeckPS03 [69], BeckF00 [68], Beck99 [62], BeckF98 [67], BeckDF97 [65]
Michela Milano	31	297	BorghesiBLMB18 [116], BonfiettiZLM16 [113], BridiBLMB16 [121], BridiLBBM16 [122], LombardiBM15 [401], BartoliniBBLM14 [60], BonfiettiLM14 [111], BonfiettiLBM14 [109], BonfiettiLM13 [110], LombardiM13 [408], LombardiMB13 [409], LombardiM12 [407], BonfiettiLBM12 [108], LombardiM12a [406], BonfiettiM12 [112], BonfiettiLBM11 [107], LombardiBMB11 [402], BeniniLMR11 [90], Milano11 [440], LombardiM10 [405], LombardiM10a [404], LombardiMRB10 [410], LombardiM09 [403], RuggieroBBMA09 [527], MilanoW09 [443], BeniniLMR08 [89], BeniniBGM06 [88], MilanoW06 [442], MilanoORT02 [441], LammaMM97 [379], BrusoniCLMMT96 [124]
Andreas Schutt	27	322	YangSS19 [646], KreterSSZ18 [366], GoldwaserS18 [253], MusliuSS18 [457], KreterSS17 [365], YoungFS17 [648], GoldwaserS17 [252], SchuttS16 [545], SzerdiS16 [572], KreterSS15 [364], EvenSH15 [204], EvenSH15a [205], SchuttFSW15 [544], ThiruvadyWGS14 [587], GuSSWC14 [268], SchuttFS13 [539], SchuttFS13a [538], GuSS13 [267], SchuttFSW13 [543], ChuGNSW13 [148], SchuttCSW12 [537], SchuttFSW11 [542], Schutt11 [536], SchuttW10 [546], abs-1009-0347 [541], SchuttFSW09 [540], SchuttWS05 [547]
Michele Lombardi	25	194	BorghesiBLMB18 [116], CauwelaertLS18 [142], BonfiettiZLM16 [113], BridiBLMB16 [121], BridiLBBM16 [122], LombardiBM15 [401], BartoliniBLM14 [60], BonfiettiLM14 [111], BonfiettiLBM14 [109], BonfiettiLM13 [110], LombardiM13 [408], LombardiMB13 [409], LombardiM12 [407], BonfiettiLBM12 [108], LombardiM12a [406], BonfiettiLBM11 [107], LombardiBMB11 [402], BeniniLMR11 [90], LombardiM10 [405], LombardiM10a [404], Lombardi10 [400], LombardiMRB10 [410], LombardiM09 [403], BeniniLMR08 [89], HoeveGSL07 [611]
Peter J. Stuckey	24	453	YangSS19 [646], DemirovicS18 [178], KreterSSZ18 [366], MusliuSS18 [457], KreterSS17 [365], SchuttS16 [545], BlomPS16 [100], KreterSS15 [364], BurtLPS15 [125], SchuttFSW15 [544], BlomBPS14 [99], LipovetzkyBPS14 [396], GuSSWC14 [268], SchuttFS13 [539], SchuttFS13a [538], GuSS13 [267], SchuttFSW13 [543], SchuttCSW12 [537], GuSW12 [269], SchuttFSW11 [542], BandaSC11 [171], abs-1009-0347 [541], SchuttFSW09 [540], OhrimenkoSC09 [485]
John N. Hooker	19	1316	ElciOH22 [196], Hooker19 [314], Hooker17 [313], HookerH17 [316], HechingH16 [290], CireCH16 [151], HarjunkoskiMBC14 [281], CireCH13 [150], CobanH11 [154], CobanH10 [153], Hooker10 [312], Hooker07 [311], Hooker06 [310], Hooker05 [308], Hooker05a [309], Hooker04 [307], HookerO03 [315], HookerY02 [317], Hooker00 [306]
Emmanuel Hebrard	17	71	JuvinHHL23 [330], HebrardALLCMR22 [287], AntuoriHHEN21 [22], ArtiguesHQT21 [32], GodetLHS20 [249], AntuoriHHEN20 [21], Hebrard-HJMPV16 [288], SimoninAHL15 [557], SialaAH15 [555], GrimesH15 [260], BessiereHMQW14 [93], SimoninAHL12 [556], BillautHL12 [95], GrimesH11 [259], GrimesH10 [258], GrimesHM09 [261], HebrardTW05 [289]
Pierre Lopez	17	90	JuvinHHL23 [330], JuvinHL23a [333], JuvinHL23 [332], HebrardALLCMR22 [287], JuvinHL22 [331], Polo-MejiaALB20 [505], NattafHKAL19 [468], NattafAL17 [465], NattafALR16 [466], SimoninAHL15 [557], NattafAL15 [464], SimoninAHL12 [556], BillautHL12 [95], LahimerLH11 [377], TrojetHL11 [604], LopezAKYG00 [412], TorresL00 [593]
Christian Artigues	16	203	PovedaAA23 [508], PohlAK22 [504], HebrardALLCMR22 [287], ArtiguesHQT21 [32], Polo-MejiaALB20 [505], NattafHKAL19 [468], NattafAL17 [465], NattafALR16 [466], SimoninAHL15 [557], NattafAL15 [464], SialaAH15 [555], SimoninAHL12 [556], NeronABCDD06 [483], DemasseyAM05 [177], ArtiguesBF04 [30], ArtiguesR00 [33]
Pierre Schaus	15	79	CauwelaertDS20 [143], ThomasKS20 [588], HoundjiSW19 [318], CappartTSR18 [131], CauwelaertLS18 [142], CappartS17 [130], Cauwelaert-DMS16 [141], DejemeppeCS15 [174], GayHLS15 [231], GayHS15 [232], GayHS15a [233], HoundjiSWD14 [319], GayS14 [234], SchausHM-CMD11 [533], SchausD08 [532]
Helmut Simonis	15	154	ArmstrongGOS22 [27], ArmstrongGOS21 [26], AntunesABD20 [20], AntunesABD18 [19], HurleyOS16 [321], GrimesIOS14 [262], IfrimOS12 [322], SimonisH11 [564], Simonis07 [561], SimonisCK00 [562], SimonisAn99 [560], SimonisC95 [563], Simonis95 [559], Simonis95a [558], DincbasSH90 [185]
Nicolas Beldiceanu	13	274	Madi-WambaLOBM17 [420], Madi-WambaB16 [419], LetortCB15 [387], LetortCB13 [386], LetortBC12 [385], ClercqPBJ11 [152], BeldiceanuCDP11 [80], BeldiceanuCP08 [81], PoderB08 [502], BeldiceanuP07 [82], PoderBS04 [503], BeldiceanuC02 [79], AggounB93 [9]
Luca Benini	13	146	BorghesiBLMB18 [116], BridiBLMB16 [121], BridiLBBM16 [122], BonfiettiLBM14 [109], LombardiMB13 [409], BonfiettiLBM12 [108], BonfiettiLBM11 [107], LombardiBMB11 [402], BeniniLMR11 [90], LombardiMRB10 [410], RuggieroBBMA09 [527], BeniniLMR08 [89], BeniniBGM06 [88]
Philippe Laborie	12	513	LunardiBLRV20 [415], LaborieRSV18 [374], Laborie18a [373], MelgarejoLS15 [11], VilimLS15 [623], Laborie09 [372], BidotVLB09 [94], BaptisteLPN06 [47], NeronABCDD06 [483], GodardLN05 [247], Laborie03 [371], FocacciLN00 [216]
Philippe Baptiste	11	403	BaptisteB18 [46], Baptiste09 [45], BaptisteLPN06 [47], NeronABCDD06 [483], ArtiouchineB05 [34], Baptiste02 [44], BaptistePN01 [50], BaptisteP00 [49], PapaB98 [494], BaptisteP97 [48], PapeB97 [493]
Roman Barták	11	88	SvancaraB22 [571], JelinekB16 [327], BartakV15 [59], Bartak14 [55], BartakS11 [57], BartakCS10 [56], BartakSR10 [58], VilimBC05 [622], VilimBC04 [621], Bartak02 [54], Bartak02a [53]

Table 8: Co-Authors of Articles/Papers

Author	Nr Works	Nr Cites	Entries
Petr Vilím	11	313	LaborieRSV18 [374], VilimLS15 [623], Vilim11 [620], Vilim09 [618], Vilim09a [619], VilimBC05 [622], Vilim05 [617], VilimBC04 [621], Vilim04 [616], Vilim03 [615], Vilim02 [614]
Mark Wallace	11	296	WallaceY20 [629], HeOGLW18 [286], ThiruvadyWGS14 [587], SchuttFSW09 [540], MilanoW09 [443], MilanoW06 [442], Wallace06 [628], SakkoutW00 [531], RodosekW98 [520], Wallace96 [627], Wallace94 [626]
Alessio Bonfietti	10	17	BonfiettiZLM16 [113], Bonfietti16 [106], LombardiBM15 [401], BonfiettiLM14 [111], BonfiettiLBM14 [109], BonfiettiLM13 [110], BonfiettiLBM12 [108], BonfiettiM12 [112], BonfiettiLBM11 [107], LombardiBMB11 [402]
Margaux Nattaf	10	49	BonninMNE24 [114], PenzDN23 [497], NattafM20 [469], MalapertN19 [425], NattafDYW19 [467], NattafHKAL19 [468], NattafAL17 [465], Nattaf16 [463], NattafALR16 [466], NattafAL15 [464]
Pascal Van Hentenryck	10	164	FontaineMH16 [217], EvenSH15 [204], EvenSH15a [205], SchausHMCMD11 [533], MonetteDH09 [447], DoomsH08 [187], HentenryckM08 [301], MercierH08 [438], HentenryckM04 [300], DincbasSH90 [185]
Claude Le Pape	9	536	BaptisteLPN06 [47], DannaP04 [162], BaptistePN01 [50], BaptisteP00 [49], PapaB98 [494], NuijtenP98 [481], BaptisteP97 [48], PapeB97 [493], Pape94 [492]
Nysret Musliu	9	14	LacknerMMWW23 [376], WinterMMW22 [637], LacknerMMWW21 [375], GeibingerKKMMW21 [236], GeibingerMM21 [239], GeibingerMM19 [238], abs-1911-04766 [237], MusliuSS18 [457], KletzanderM17 [349]
Claude-Guy Quimper	9	25	BoudreaultSLQ22 [118], OuelletQ22 [488], Mercier-AubinGQ20 [439], FahimiOQ18 [207], KameugneFGOQ18 [337], OuelletQ18 [487], GingrasQ16 [246], BessiereHMQW14 [93], OuelletQ13 [486]
Tony T. Tran	9	108	TranPZLDB18 [599], TranVNB17 [601], TranVNB17a [602], TranAB16 [596], TranWDRFOVB16 [603], TranDRFWOVB16 [598], TerekhovTDB14 [583], TranTDB13 [600], TranB12 [597]
Mats Carlsson	8	80	WessenCS20 [635], MossigeGSMC17 [450], LetortCB15 [387], LetortCB13 [386], LetortBC12 [385], BeldiceanuCDP11 [80], BeldiceanuCP08 [81], BeldiceanuC02 [79]
Thibaut Feydy	8	173	YoungFS17 [648], SchuttFSW15 [544], SchuttFS13 [539], SchuttFS13a [538], SchuttFSW13 [543], SchuttFSW11 [542], abs-1009-0347 [541], SchuttFSW09 [540]
Mark G. Wallace	8	135	SchuttFSW15 [544], GuSSWC14 [268], SchuttFSW13 [543], SchuttCSW12 [537], GuSW12 [269], SchuttFSW11 [542], abs-1009-0347 [541], AjiliW04 [12]
Louis-Martin Rousseau	8	126	CappartTSR18 [131], DoulabiRP16 [191], PesantRR15 [500], DoulabiRP14 [190], MalapertCGJLR13 [424], MalapertCGJLR12 [423], ChapadosJR11 [146], HachemiGR11 [274]
Armin Wolf	8	46	GeitzGSSW22 [240], Wolf11 [640], SchuttW10 [546], Wolf09 [642], WolfS05 [641], SchuttWS05 [547], Wolf05 [639], Wolf03 [638]
Diarmuid Grimes	7	52	AntunesABD20 [20], AntunesABD18 [19], GrimesH15 [260], GrimesIOS14 [262], GrimesH11 [259], GrimesH10 [258], GrimesHM09 [261]
Zdenek Hanzálek	7	27	Mehdizadeh-Somarin23 [432], abs-2305-19888 [298], HeinzNVH22 [297], VlKHT21 [625], BenediktMH20 [86], BenediktSMVH18 [87], KelbelH11 [343]
Roger Kameugne	7	14	KameugneFND23 [338], ThomasKS20 [588], KameugneFGOQ18 [337], Kameugne15 [336], KameugneFNS14 [340], Kameugne14 [335], KameugneFSN11 [339]
András Kovács	7	21	KovacsB11 [358], KovacsK11 [360], KovacsB08 [357], KovacsB07 [356], KovacsV06 [362], KovacsEKV05 [359], KovacsV04 [361]
Arnaud Malapert	7	39	BonninMNE24 [114], NattafM20 [469], MalapertN19 [425], MalapertCGJLR13 [424], MalapertCGJLR12 [423], Malapert11 [422], GrimesHM09 [261]
Barry O’Sullivan	7	14	ArmstrongGOS22 [27], ArmstrongGOS21 [26], AntunesABD20 [20], AntunesABD18 [19], HurleyOS16 [321], GrimesIOS14 [262], IfrimOS12 [322]
Gabriela P. Henning	7	153	NovaraNH16 [475], NovasH14 [479], NovasH12 [478], NovasH10 [477], ZeballosQH10 [658], ZeballosH05 [657], QuirogaZH05 [516]
Yves Deville	6	19	HoundjiSWD14 [319], DejemeppeD14 [175], SchausHMCMD11 [533], MonetteDH09 [447], SchausD08 [532], MonetteDD07 [446]
Stefan Heinz	6	67	HeinzSB13 [296], HeinzKB13 [293], HeinzSSW12 [294], HeinzB12 [292], HeinzS11 [295], BertholdHLMS10 [92]
Wim Nuijten	6	375	BaptisteLPN06 [47], GodardLN05 [247], BaptistePN01 [50], SourdN00 [565], FocacciLN00 [216], NuijtenP98 [481]
Erwin Pesch	6	417	MullerMKP22 [453], BlazewiczEP19 [97], DomdorffPH03 [186], DorndorffPH99 [189], DorndorffHP99 [188], BlazewiczDP96 [126]
Emmanuel Poder	6	27	BeldiceanuCDP11 [80], abs-0907-0939 [501], BeldiceanuCP08 [81], PoderB08 [502], BeldiceanuP07 [82], PoderBS04 [503]
Vahid Roshanaei	6	168	NaderiRR23 [462], NaderiR22 [460], NaderiRBAU21 [461], RoshanaeiBAUB20 [523], RoshanaeiLAU17 [524], RoshanaeiLAU17a [525]
Cyrille Dejemeppe	5	8	CauwelaertDS20 [143], CauwelaertDMS16 [141], Dejemeppe16 [173], DejemeppeCS15 [174], DejemeppeD14 [175]
Sophie Demasse	5	82	HermenierDL11 [302], BeldiceanuCDP11 [80], NeronABCDD06 [483], DemasseAM05 [177], Demasse03 [176]
Ignacio E. Grossmann	5	844	HarjunkskiMBC14 [281], CastroGR10 [139], MaraveliasG04 [428], HarjunkskiG02 [280], JainG01 [325]
Hanyu Gu	5	39	EtimaniefahaniGNMS22 [203], ThiruvadyWGS14 [587], GuSSWC14 [268], GuSS13 [267], GuSW12 [269]
Narendra Jussien	5	36	MalapertCGJLR13 [424], MalapertCGJLR12 [423], ClercqPBJ11 [152], ElkhyariGJ02 [198], ElkhyariGJ02a [199]
Juan M. Novas	5	148	Novas19 [476], NovaraNH16 [475], NovasH14 [479], NovasH12 [478], NovasH10 [477]
Kenneth N. Brown	5	44	AntunesABD20 [20], AntunesABD18 [19], MurphyMB15 [455], WuBB09 [645], WuBB05 [644]
Bahman Naderi	5	32	NaderiRR23 [462], NaderiBZ22 [459], NaderiBZ22a [458], NaderiR22 [460], NaderiRBAU21 [461]
Mohamed Siala	5	9	AntunesABD20 [20], AntunesABD18 [19], Siala15 [553], SialaAH15 [555], Siala15a [554]
Marek Vlk	5	14	abs-2305-19888 [298], HeinzNVH22 [297], VlKHT21 [625], BenediktSMVH18 [87], BartakV15 [59]
Nic Wilson	5	28	AntunesABD20 [20], AntunesABD18 [19], BeckW07 [73], BeckW05 [72], BeckW04 [71]
André A. Ciré	4	50	CireCH13 [150], LopesCSM10 [411], MouraSCL08 [452], MouraSCL08a [451]
Andrea Bartolini	4	40	BorghesiBLMB18 [116], BridiBLMB16 [121], BridiLBBM16 [122], BartoliniBBLM14 [60]
Geoffrey Chu	4	47	GuSSWC14 [268], ChuGNSW13 [148], SchuttCSW12 [537], BandaSC11 [171]

Table 8: Co-Authors of Articles/Papers

Author	Nr Works	Nr Cites	Entries
Elvin Coban	4	41	CireCH16 [151], CireCH13 [150], CobanH11 [154], CobanH10 [153]
Steven Gay	4	42	GayHLS15 [231], GayHS15 [232], GayHS15a [233], GaySS14 [234]
Tobias Geibinger	4	6	GeibingerKKMMW21 [236], GeibingerMM21 [239], GeibingerMM19 [238], abs-1911-04766 [237]
Christelle Gu��ret	4	33	MalapertCGJLR13 [424], MalapertCGJLR12 [423], ElkhyariGJ02 [198], ElkhyariGJ02a [199]
Laurent Houssin	4	0	JuvinHHL23 [330], JuvinHL23a [333], JuvinHL23 [332], JuvinHL22 [331]
Carla Juvin	4	0	JuvinHHL23 [330], JuvinHL23a [333], JuvinHL23 [332], JuvinHL22 [331]
Tam��s Kis	4	11	NattafHKAL19 [468], KovacsK11 [360], KeriK07 [344], KovacsEKV05 [359]
Arnaud Letort	4	23	LetortCB15 [387], LetortCB13 [386], Letort13 [384], LetortBC12 [385]
Dionne M. Aleman	4	161	NaderiRBAU21 [461], RoshanaeiBAUB20 [523], RoshanaeiLAU17 [524], RoshanaeiLAU17a [525]
Laurent Michel	4	39	TardivoDFMP23 [577], SchausHMCMD11 [533], HentenryckM08 [301], HentenryckM04 [300]
Florian Mischek	4	6	GeibingerKKMMW21 [236], GeibingerMM21 [239], GeibingerMM19 [238], abs-1911-04766 [237]
Jean-No��l Monette	4	15	CauwelaertDMS16 [141], SchausHMCMD11 [533], MonetteDH09 [447], MonetteDD07 [446]
Goldie Nejat	4	50	TranVNB17 [601], TranVNB17a [602], BoothNB16 [115], LouieVNB14 [414]
Yanick Ouellet	4	10	OuelletQ22 [488], FahimiOQ18 [207], KameugneFGOQ18 [337], OuelletQ18 [487]
Gilles Pesant	4	60	AalianPG23 [1], DoulabiRP16 [191], PesantRR15 [500], DoulabiRP14 [190]
Thierry Petit	4	20	DerrienP14 [180], DerrienPZ14 [181], ClercqPB11 [152], abs-0907-0939 [501]
C��dric Pralet	4	10	SquillaciPR23 [566], Pralet17 [509], HebrardHJMPV16 [288], PraletLJ15 [510]
Adrian R. Pearce	4	35	BlomPS16 [100], BurtLPS15 [125], BlomBPS14 [99], LipovetzkyBPS14 [396]
Dhananjay R. Thiruvady	4	32	abs-2402-00459 [471], abs-2211-14492 [568], ThiruvadyWGS14 [587], ThiruvadyBME09 [586]
Martino Ruggiero	4	58	BeniniLMR11 [90], LombardiMRB10 [410], RuggieroBBMA09 [527], BeniniLMR08 [89]
Mark S. Fox	4	27	BeckF00 [68], BeckF98 [67], BeckDF97 [65], FoxAS82 [220]
Christine Solnon	4	20	GroleazNS20 [265], GroleazNS20a [264], SacramentoSP20 [528], MelgarejoLS15 [11]
Daria Terekhov	4	21	TanT18 [574], TerekhovTDB14 [583], TranTDB13 [600], TerekhovDOB12 [582]
J��zsef V��ncza	4	9	KovacsV06 [362], KovacsEKV05 [359], KovacsV04 [361], VanczaM01 [612]
Toby Walsh	4	2	GelainPRVW17 [241], BessiereHMQW14 [93], ChuGNSW13 [148], HebrardTW05 [289]
Felix Winter	4	0	LacknerMMWW23 [376], WinterMMW22 [637], LacknerMMWW21 [375], GeibingerKKMMW21 [236]
Francisco Yuraszeck	4	31	YuraszeckMCCR23 [653], YuraszeckMC23 [651], YuraszeckMPV22 [652], MejiaY20 [433]
Willem-Jan van Hoeve	4	50	GilesH16 [245], GoelSHFS15 [250], HoeveGSL07 [611], GomesHS06 [256]
Max ��strand	4	27	Astrand0F21 [36], Astrand21 [35], AstrandJZ20 [38], AstrandJZ18 [37]
Miguel A. Salido	3	45	BartakS11 [57], BartakSR10 [58], AbrilSB05 [4]
Laurence A. Wolsey	3	50	HoundjiSW19 [318], HoundjiSWD14 [319], SadykovW06 [530]
Bruno A. Prata	3	1	PrataAN23 [511], AbreuNP23 [169], AbreuPNF23 [3]
Mehmet A. Begen	3	25	NaderiBZ22 [459], NaderiBZ22a [458], NaderiRBAU21 [461]
Maliheh Aramon Bajestani	3	31	BajestaniB15 [43], BajestaniB13 [42], BajestaniB11 [41]
S��verine Betmbe Fetgo	3	1	KameugneFND23 [338], FetgoD22 [215], KameugneFGOQ18 [337]
Miquel Bofill	3	11	BofillCSV17 [103], BofillGSV15 [105], BofillEGPSV14 [104]
Thomas Bridi	3	29	BridiBLMB16 [121], BridiLBBM16 [122], BartoliniBBLM14 [60]
Cid C. de Souza	3	21	MouraSCL08 [452], MouraSCL08a [451], HeipckeCCS00 [299]
Hadrien Cambazard	3	23	CatusseCBL16 [140], MalapertCGJLR13 [424], MalapertCGJLR12 [423]
Quentin Cappart	3	8	PopovicCGNC22 [506], CappartTSR18 [131], CappartS17 [130]
Ondrej Cepek	3	36	BartakCS10 [56], VilimBC05 [622], VilimBC04 [621]
Amedeo Cesta	3	15	CestaOPS14 [144], OddiPCC03 [484], CestaOS98 [145]
Giacomo Da Col	3	14	ColT22 [161], abs-2102-08778 [156], ColT19 [157]
Alban Derrien	3	17	Derrien15 [179], DerrienP14 [180], DerrienPZ14 [181]
Abdallah Elkhyari	3	10	Elkhyari03 [197], ElkhyariGJ02 [198], ElkhyariGJ02a [199]
Hamed Fahimi	3	2	FahimiQ23 [208], FahimiOQ18 [207], Fahimi16 [206]
Jeremy Frank	3	7	TranWDRFOVB16 [603], TranDRFWOVB16 [598], FrankK05 [221]
Douglas G. Down	3	20	TranPZLDB18 [599], TerekhovTDB14 [583], TranTDB13 [600]
Maurizio Gabbrielli	3	12	LiuCGM17 [398], AmadiniGM16 [17], FalaschiGMP97 [209]
Michele Garraffa	3	1	AlfieriGPS23 [15], ArmstrongGOS22 [27], ArmstrongGOS21 [26]
Martin Gebser	3	0	TasselGS23 [578], abs-2306-05747 [579], KovacsTKSG21 [363]
Jean-Claude Gentina	3	8	KorbaaYG00 [354], LopezAKYG00 [412], KorbaaYG99 [353]
Lucas Groleaz	3	4	Groleaz21 [263], GroleazNS20 [265], GroleazNS20a [264]
Andy Ham	3	20	HamPK21 [277], Ham18 [275], Ham18a [276]
Renaud Hartert	3	35	GayHLS15 [231], GayHS15 [232], GayHS15a [233]

Table 8: Co-Authors of Articles/Papers

Author	Nr Works	Nr Cites	Entries
Brahim Hnich	3	68	GokgurHO18 [251], OzturkTHO13 [490], RossiTHP07 [526]
Marie-José Huguet	3	12	AntuoriHHEN21 [22], AntuoriHHEN20 [21], HebrardHJMPV16 [288]
Andrew J. Davenport	3	13	Davenport10 [165], DavenportKRSH07 [166], BeckDF97 [65]
Mikael Johansson	3	27	Astrand0F21 [36], AstrandJZ20 [38], AstrandJZ18 [37]
Ouajdi Korbaa	3	8	KorbaaYG00 [354], LopezAKYG00 [412], KorbaaYG99 [353]
Stefan Kreter	3	47	KreterSSZ18 [366], KreterSS17 [365], KreterSS15 [364]
Krzysztof Kuchcinski	3	24	WolinskiKG04 [643], KuchcinskiW03 [368], GruianK98 [266]
André Langevin	3	107	MalapertCGJLR13 [424], MalapertCGJLR12 [423], KhayatLR06 [345]
Philippe Michelon	3	68	Acuna-AgostMFG09 [5], LiessM08 [390], DemasseyAM05 [177]
Tony Minoru Tamura Lopes	3	47	LopesCSM10 [411], MouraSCL08 [452], MouraSCL08a [451]
Christina N. Burt	3	15	BurtLPS15 [125], BlomBPS14 [99], LipovetzkyBPS14 [396]
Hiroki Nishikawa	3	3	NishikawaSTT19 [474], NishikawaSTT18 [472], NishikawaSTT18a [473]
Angelo Oddi	3	15	CestaOPS14 [144], OddiPCC03 [484], CestaOS98 [145]
David R. Urbach	3	100	NaderiRBAU21 [461], RoshanaeiBAUB20 [523], RoshanaeiLAU17a [525]
Philippe Refalo	3	60	GarganiR07 [228], BeckR03 [70], MilanoORT02 [441]
Levi Ribeiro de Abreu	3	11	AbreuNP23 [169], AbreuN22 [168], AbreuAPNM21 [167]
Gunnar Schrader	3	13	Wolf09 [642], WolfS05 [641], SchuttWS05 [547]
Jens Schulz	3	40	HeinzSB13 [296], HeinzS11 [295], BertholdHLS10 [92]
Marcelo Seido Nagano	3	11	AbreuNP23 [169], AbreuN22 [168], AbreuAPNM21 [167]
Kana Shimada	3	3	NishikawaSTT19 [474], NishikawaSTT18 [472], NishikawaSTT18a [473]
Gilles Simonin	3	8	GodetLHS20 [249], SimoninAHL15 [557], SimoninAHL12 [556]
Tiago Stegun Vaquero	3	29	TranVNB17 [601], TranVNB17a [602], LouieVNB14 [414]
Josep Suy	3	11	BofillCSV17 [103], BofillGSV15 [105], BofillEGPSV14 [104]
Christos T. Maravelias	3	396	Adelgren2023 [7], HarjunkoskiMBC14 [281], MaraveliasG04 [428]
Andreas T. Ernst	3	16	abs-2211-14492 [568], EdwardsBSE19 [194], ThiruvadyBME09 [586]
Ittetsu Taniguchi	3	3	NishikawaSTT19 [474], NishikawaSTT18 [472], NishikawaSTT18a [473]
Pierre Tassel	3	0	TasselGS23 [578], abs-2306-05747 [579], KovacsTKSG21 [363]
Reza Tavakkoli-Moghaddam	3	9	Fatemi-AnarakiTFV23 [213], NouriMHD23 [606], GhasemiMH23 [244]
Hiroyuki Tomiyama	3	3	NishikawaSTT19 [474], NishikawaSTT18 [472], NishikawaSTT18a [473]
Seyda Topaloglu Yildiz	3	20	IsikYA23 [323], YunusogluY22 [650], KucukY19 [370]
Sascha Van Cauwelaert	3	8	CauwelaertLS18 [142], CauwelaertDMS16 [141], DejemeppeCS15 [174]
G�rard Verfaillie	3	119	HebrardHJMPV16 [288], VerfaillieL01 [613], BensanaLV99 [91]
Arnaldo Vieira Moura	3	47	LopesCSM10 [411], MouraSCL08 [452], MouraSCL08a [451]
Mateu Villaret	3	11	BofillCSV17 [103], BofillGSV15 [105], BofillEGPSV14 [104]
Daniel Walkiewicz	3	0	LacknerMMWW23 [376], WinterMMW22 [637], LacknerMMWW21 [375]
Pascal Yim	3	8	KorbaaYG00 [354], LopezAKYG00 [412], KorbaaYG99 [353]
Alessandro Zanarini	3	25	AstrandJZ20 [38], AstrandJZ18 [37], BonfiettiZLM16 [113]
Luis Zaballos	3	35	ZaballosQH10 [658], ZaballosH05 [657], QuirogaZH05 [516]
Viktoria A. Hauder	2	14	HauderBRPA20 [285], abs-1902-09244 [284]
Daniel A. Desmond	2	1	AntunesABD20 [20], AntunesABD18 [19]
Michael Affenzeller	2	14	HauderBRPA20 [285], abs-1902-09244 [284]
Abderrahmane Aggoun	2	187	AggounMV08 [10], AggounB93 [9]
Mark Antunes	2	1	AntunesABD20 [20], AntunesABD18 [19]
Valentin Antuori	2	3	AntuoriHHEN21 [22], AntuoriHHEN20 [21]
Vincent Armant	2	1	AntunesABD20 [20], AntunesABD18 [19]
Eddie Armstrong	2	1	ArmstrongGOS22 [27], ArmstrongGOS21 [26]
Emrah B. Edis	2	48	EdisO11 [192], EdisO11a [193]
Amelia Badica	2	4	BadicaBI20 [39], BadicaBIL19 [40]
Costin Badica	2	4	BadicaBI20 [39], BadicaBIL19 [40]
Pierre Baptiste	2	13	BoucherBVBL97 [117], BaptisteLV92 [51]
Nicolas Barnier	2	0	WangB23 [631], WangB20 [630]
Andreas Beham	2	14	HauderBRPA20 [285], abs-1902-09244 [284]
Ondrej Benedikt	2	3	BenediktMH20 [86], BenediktSMVH18 [87]
Davide Bertozzi	2	27	RuggieroBBMA09 [527], BeniniBGM06 [88]
Jean-Charles Billaut	2	23	BillautHL12 [95], LorigeonBB02 [413]

Table 8: Co-Authors of Articles/Papers

Author	Nr Works	Nr Cites	Entries
Andrea Borghesi	2	23	BorghesiBLMB18 [116], BartoliniBBLM14 [60]
Dario Canut-de-Bon	2	1	YuraszeckMCCR23 [653], YuraszeckMC23 [651]
Tom Carchrae	2	16	CarchraeB09 [132], CarchraeBF05 [133]
Jacques Carlier	2	6	CarlierSJP21 [137], NeronABCDD06 [483]
Erich Christian Teppan	2	11	Teppan22 [581], ColT19 [157]
Jordi Coll Caballero	2	0	Caballero23 [128], Caballero19 [127]
Yves Colombani	2	9	HeipckeCCS00 [299], Colombani96 [158]
Joseph D. Scott	2	13	KameugneFSN14 [340], KameugneFSN11 [339]
Emilie Danna	2	23	DannaP04 [162], DannaP03 [163]
Stéphane Dauzère-Pérès	2	14	PenzDN23 [497], NattafDYW19 [467]
Mauro Dell’Amico	2	2	MontemanniD23 [449], MontemanniD23a [448]
Minh Do	2	3	TranWDRFOVB16 [603], TranDRFWOVB16 [598]
Ulrich Dorndorf	2	18	DorndorfPH99 [189], DorndorfHP99 [188]
Hani El Sakkout	2	82	KamarainenS02 [334], SakkoutW00 [531]
Sebastian Engell	2	384	KlankeBYE21 [348], HarjunkoskiMBC14 [281]
Tamer Eren	2	1	GurPAE23 [272], GurEA19 [672]
Guillaume Escamocher	2	1	AntunesABD20 [20], AntunesABD18 [19]
Siham Essodaigui	2	3	AntuoriHHEN21 [22], AntuoriHHEN20 [21]
Caroline Even	2	3	EvenSH15 [204], EvenSH15a [205]
Stephen F. Smith	2	7	CestaOPS14 [144], CestaOS98 [145]
Minhaz F. Zibran	2	43	ZibranR11 [669], ZibranR11a [670]
Azadeh Farsi	2	25	FarsiTM22 [212], MokhtarzadehTNF20 [445]
Dominique Feillet	2	19	Acuna-AgostMFG09 [5], ArtiguesBF04 [30]
Michel Gamache	2	0	AalianPG23 [1], CampeauG22 [129]
Marc Garcia	2	10	BofillGSV15 [105], BofillEGPSV14 [104]
Antonio Garrido	2	27	GarridoAO09 [229], GarridoOS08 [230]
Anne-Marie George	2	1	AntunesABD20 [20], AntunesABD18 [19]
Eleanor Gilbert Rieffel	2	3	TranWDRFOVB16 [603], TranDRFWOVB16 [598]
Vincent Gingras	2	1	KameugneFGOQ18 [337], GingrasQ16 [246]
Arthur Godet	2	1	Godet21a [248], GodetLHS20 [249]
Adrian Goldwaser	2	8	GoldwaserS18 [253], GoldwaserS17 [252]
Arnaud Gotlieb	2	9	MossigeGSMC17 [450], AlesioNBG14 [182]
Iiro Harjunkoski	2	550	HarjunkoskiMBC14 [281], HarjunkoskiG02 [280]
Vilém Heinz	2	5	abs-2305-19888 [298], HeinzNVH22 [297]
Alessandro Hill	2	0	HillBCGN22 [303], HillTV21 [304]
Seyed Hossein Hashemi Doulabi	2	59	DoulabiRP16 [191], DoulabiRP14 [190]
Georgiana Ifrim	2	12	GrimesIOS14 [262], IfrimOS12 [322]
Mirjana Ivanovic	2	4	BadicaBI20 [39], BadicaBIL19 [40]
Raf Jans	2	60	MartnezAJ22 [430], Jans09 [326]
Chanchal K. Roy	2	43	ZibranR11 [669], ZibranR11a [670]
Lucas Kletzander	2	1	GeibingerKKMMW21 [236], KletzanderM17 [349]
Jan Kristof Behrens	2	12	BehrensLM19 [76], abs-1901-07914 [77]
Wen-Yang Ku	2	128	KuB16 [367], HeinzKB13 [293]
Michelle L. Blom	2	35	BlomPS16 [100], BlomBPS14 [99]
Marie-Louise Lackner	2	0	LacknerMMWW23 [376], LacknerMMWW21 [375]
Arnaud Lallouet	2	0	PerezGSL23 [498], abs-2312-13682 [499]
Evelina Lamma	2	12	LammaMM97 [379], BrusoniCLMMT96 [124]
Ralph Lange	2	12	BehrensLM19 [76], abs-1901-07914 [77]
Bruno Legeard	2	13	BoucherBVBL97 [117], BaptisteLV92 [51]
Pierre Lemaire	2	32	CatusseCBL16 [140], GuyonLPR12 [273]
Michel Lemaître	2	110	VerfaillieL01 [613], BensanaLV99 [91]
BoonPing Lim	2	6	LimHTB16 [392], LimBTBB15 [393]
Kamol Limtanyakul	2	6	LimtanyakulS12 [395], Limtanyakul07 [394]
Yiqing Lin	2	1	AntunesABD20 [20], AntunesABD18 [19]
Nir Lipovetzky	2	0	BurtLPS15 [125], LipovetzkyBPS14 [396]

Table 8: Co-Authors of Articles/Papers

Author	Nr Works	Nr Cites	Entries
James Little	2	30	KrogtLPHJ07 [610], Darby-DowmanLMZ97 [164]
Shixin Liu	2	0	LiFJZLL22 [389], ZhangJZL22 [659]
Xavier Lorca	2	29	GodetLHS20 [249], HermenierDL11 [302]
Curtiss Luong	2	115	RoshanaeiLAU17 [524], RoshanaeiLAU17a [525]
Abid M. Malik	2	15	Malik08 [426], MalikMB08 [427]
Pedro M. Castro	2	381	HarjunkskiMBC14 [281], CastroGR10 [139]
Gilles Madi-Wamba	2	1	Madi-WambaLOBM17 [420], Madi-WambaB16 [419]
Adrien Maillard	2	9	HebrardALLCMR22 [287], HebrardHJMPV16 [288]
Masoumeh Mansouri	2	12	BehrensLM19 [76], abs-1901-07914 [77]
Jacopo Mauro	2	2	LiuCGM17 [398], AmadiniGM16 [17]
Gonzalo Mejía	2	25	YuraszeckMC23 [651], MejiaY20 [433]
Paola Mello	2	12	LammaMM97 [379], BrusoniCLMMT96 [124]
Carlos Mencía	2	25	MenciaSV13 [436], MenciaSV12 [435]
Mahdi Mokhtarzadeh	2	25	FarsiTM22 [212], MokhtarzadehTNF20 [445]
Roberto Montemanni	2	2	MontemanniD23 [449], MontemanniD23a [448]
Christoph Mrkvicka	2	0	LacknerMMWW23 [376], LacknerMMWW21 [375]
István Módos	2	3	BenediktMH20 [86], BenediktSMVH18 [87]
Sophie N. Parragh	2	14	HauderBRPA20 [285], abs-1902-09244 [284]
Samba Ndojh Ndiaye	2	4	GroleazNS20 [265], GroleazNS20a [264]
Youchou Ngo-Kateu	2	13	KameugneFSN14 [340], KameugneFSN11 [339]
Alain Nguyen	2	3	AntuoriHHEN21 [22], AntuoriHHEN20 [21]
Su Nguyen	2	0	abs-2402-00459 [471], abs-2211-14492 [568]
Antonín Novák	2	5	abs-2305-19888 [298], HeinzNVH22 [297]
Bryan O’Gorman	2	3	TranWDRFOVB16 [603], TranDRFWOVB16 [598]
Mike O’Keeffe	2	1	AntunesABD20 [20], AntunesABD18 [19]
Eva Onaíndia	2	27	GarridoAO09 [229], GarridoOS08 [230]
Irem Ozkarahan	2	89	EdisO11a [193], TopalogluO11 [592]
Cemalettin Ozturk	2	1	AntunesABD20 [20], AntunesABD18 [19]
Carla P. Gomes	2	0	HoeveGSL07 [611], GomesHS06 [256]
Laure Pauline Fotso	2	13	KameugneFSN14 [340], KameugneFSN11 [339]
Guillaume Perez	2	0	PerezGSL23 [498], abs-2312-13682 [499]
Toàn Phan Huy	2	18	DorndorfPH99 [189], DorndorfHPP99 [188]
Nicola Policella	2	10	CestaOPS14 [144], OddiPCC03 [484]
Enrico Pontelli	2	0	TardivoDFMP23 [577], VillaverdeP04 [624]
Luis Quesada	2	1	AntunesABD20 [20], AntunesABD18 [19]
Oscar Quiroga	2	35	ZeballosQH10 [658], QuirogaZH05 [516]
Günther R. Raidl	2	14	FrohnerTR19 [225], RendlPHPR12 [518]
Levi R. Abreu	2	0	PrataAN23 [511], AbreuPNF23 [3]
María R. Sierra	2	25	MenciaSV13 [436], MenciaSV12 [435]
Sebastian Raggl	2	14	HauderBRPA20 [285], abs-1902-09244 [284]
Vinasétan Ratheil Houndji	2	5	HoundjiSW19 [318], HoundjiSWD14 [319]
David Rivreau	2	42	NattafALR16 [466], GuyonLPR12 [273]
Francesca Rossi	2	29	GelainPRVW17 [241], BartakSR10 [58]
Louis-Martin Rousseau	2	106	CastroGR10 [139], CorreaLR07 [159]
Marcelo S. Nagano	2	0	PrataAN23 [511], AbreuPNF23 [3]
Erlendur S. Thorsteinsson	2	81	MilanoORT02 [441], Thorsteinsson01 [589]
Ruslan Sadykov	2	56	SadykovW06 [530], Sadykov04 [529]
Konstantin Schekotihin	2	0	TasselGS23 [578], abs-2306-05747 [579]
Christian Schulte	2	5	WessenCS20 [635], FrimodigS19 [223]
Bart Selman	2	0	HoeveGSL07 [611], GomesHS06 [256]
Paul Shaw	2	179	LaborieRSV18 [374], VilimLS15 [623]
Wijnand Suijlen	2	0	PerezGSL23 [498], abs-2312-13682 [499]
Yuan Sun	2	0	abs-2402-00459 [471], abs-2211-14492 [568]
Reza Tavakkoli-Moghaddam	2	25	Mehdizadeh-Somarin23 [432], MokhtarzadehTNF20 [445]
Clémentin Tayou Djamégni	2	0	KameugneFND23 [338], FetgoD22 [215]

Table 8: Co-Authors of Articles/Papers

Author	Nr Works	Nr Cites	Entries
Erich Teppan	2	3	abs-2102-08778 [156], FriedrichFMRST14 [222]
Alexander Tesch	2	9	Tesch18 [585], Tesch16 [584]
Sylvie Thiébaux	2	6	LimHTB16 [392], LimBTBB15 [393]
Charles Thomas	2	6	ThomasKS20 [588], CappartTSR18 [131]
Behdin Vahedi Nouri	2	25	Mehdizadeh-Somarin23 [432], MokhtarzadehTNF20 [445]
Behdin Vahedi-Nouri	2	9	Fatemi-AnarakiTFV23 [213], NouriMHD23 [606]
Ramiro Varela	2	25	MenciaSV13 [436], MenciaSV12 [435]
Christophe Varnier	2	13	BoucherBVBL97 [117], BaptisteLV92 [51]
Davide Venturelli	2	3	TranWDRFOVB16 [603], TranDRFWOVB16 [598]
Ruixin Wang	2	0	WangB23 [631], WangB20 [630]
Zhihui Wang	2	3	TranWDRFOVB16 [603], TranDRFWOVB16 [598]
Jean-Paul Watson	2	57	BeckFW11 [66], WatsonB08 [634]
Christine Wei Wu	2	42	WuBB09 [645], WuBB05 [644]
Christophe Wolinski	2	19	WolinskiKG04 [643], KuchcinskiW03 [368]
Farouk Yalaoui	2	3	OujanaAYB22 [489], ArbaouiY18 [24]
Neil Yorke-Smith	2	5	EfthymiouY23 [195], WallaceY20 [629]
Ziyan Zhao	2	0	LiFJZLL22 [389], ZhangJZL22 [659]
Jianyang Zhou	2	24	Zhou97 [665], Zhou96 [664]
Menkes van den Briel	2	6	LimHTB16 [392], LimBTBB15 [393]
Peter van Beek	2	16	BegB13 [75], MalikMB08 [427]
	1	63	ArtiguesDN08 [31]
Florian A. Herzog	1	2	KoehlerBFFHPSSS21 [350]
J. A. Hoogeveen	1	2	AkkerDH07 [608]
M. A. Hakim Newton	1	0	RiahiNS018 [519]
Amr A. Kandil	1	24	TangLWSK18 [576]
Antonio A. Márquez	1	7	ValleMGTO3 [607]
Kennedy A. G. Araújo	1	0	AbreuAPNM21 [167]
Steve A. Chien	1	0	HebrardALLCMR22 [287]
Sheila A. McIlraith	1	0	LuoVLBM16 [417]
Andre A. Ciré	1	15	CireCH16 [151]
Julie A. Shah	1	71	GombolayWS18 [255]
Younes Aalian	1	0	AalianPG23 [1]
E.H.L. Aarts	1	65	NuijtenA96 [482]
Hanaa Abohashima	1	1	AbohashimaEG21 [2]
Montserrat Abril	1	0	AbrilSB05 [4]
Rodrigo Acuna-Agost	1	3	Acuna-AgostMFG09 [5]
Nathan Adelgren	1	0	Adelgren2023 [7]
W. Adelman	1	17	EscobetPQPRA19 [202]
Yossiri Adulyasak	1	1	MartnezAJ22 [430]
Sezin Afsar	1	0	AfsarVPG23 [8]
Penélope Aguiar-Melgarejo	1	14	MelgarejoLS15 [11]
Sanjay Ahire	1	0	KanetAG04 [341]
Aftab Ahmed Shaikh	1	0	ShaikhK23 [549]
Uwe Aickelin	1	0	abs-2211-14492 [568]
Farid Ajili	1	4	AjiliW04 [12]
Ali Akbar Sadat Asl	1	55	ZarandiASC20 [656]
Mohsen Akbarpour Shirazi	1	28	ZarandiKS16 [655]
Arianna Alfieri	1	0	AlfieriGPS23 [15]
S. Ali Torabi	1	0	FarsiTM22 [212]
Samira Alizdeh	1	1	AlizdehS20 [16]
Hassane Alla	1	0	LopezAKYG00 [412]
Roberto Amadini	1	2	AmadiniGM16 [17]
Lionel Amodeo	1	1	OujanaAYB22 [489]
Alexandru Andrei	1	9	RuggieroBBMA09 [527]
Ola Angelsmark	1	1	AngelsmarkJ00 [18]

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Author	Nr Works	Nr Cites	Entries
Richard Anthony Valenzano	1	0	LuoVLBM16 [417]
M. Anton Ertl	1	14	ErtlK91 [201]
Zbigniew Antoni Banaszak	1	0	BocewiczBB09 [101]
Marlene Arangú	1	5	GarridoAO09 [229]
Arthur Araujo	1	72	TranAB16 [596]
Taha Arbaoui	1	2	ArbaouiY18 [24]
Dmitry Arkhipov	1	12	ArkhipovBL19 [25]
Martin Aronsson	1	0	AronssonBK09 [29]
M. Arslan Ornek	1	31	OzturkTHO13 [490]
Konstantin Artiouchine	1	3	ArtiouchineB05 [34]
Arezo Atighehchian	1	0	YounespourAKE19 [647]
Abdullah Ayub Khan	1	0	ShaikhK23 [549]
Amr B. Eltawil	1	1	AbohashimaEG21 [2]
Maya B. Gokhale	1	0	WolinskiKG04 [643]
David B. H. Tay	1	0	Tay92 [580]
Davaatseren Baatar	1	3	EdwardsBSE19 [194]
Özalp Babaoglu	1	1	GalleguillosKSB19 [227]
Irena Bach	1	0	BocewiczBB09 [101]
Astrid Bachelu	1	0	BoucherBVBL97 [117]
Scott Backhaus	1	4	LimBTBB15 [393]
Hari Balasubramanian	1	9	ShinBBHO18 [552]
Viet Bang Nguyen	1	0	LauLN08 [380]
Federico Barber	1	0	AbrilSB05 [4]
Ada Barlatt	1	1	BarlattCG08 [52]
Mohammadreza Barzegaran	1	0	BarzegaranZP20 [61]
Virginie Basini	1	8	Polo-MejiaALB20 [505]
Olga Battaia	1	12	ArkhipovBL19 [25]
N Beldiceanu	1	167	BeldiceanuC94 [78]
Said Belhadji	1	3	BelhadjiI98 [83]
Sana Belmokhtar	1	16	ArtiguesBF04 [30]
Fatima Benbouzid-Si Tayeb	1	0	TouatBT22 [594]
Till Bender	1	1	BenderWS21 [84]
Belaid Benhamou	1	0	TouatBT22 [594]
Hachemi Bennaceur	1	8	KhemmoudjPB06 [346]
E. Bensana	1	99	BensanaLV99 [91]
Russell Bent	1	4	LimBTBB15 [393]
Timo Berthold	1	28	BertholdHLMS10 [92]
Christian Bessiere	1	1	BessiereHMQW14 [93]
Julien Bidot	1	58	BidotVLB09 [94]
Arthur Bit-Monnot	1	0	Bit-Monnot23 [96]
Jacek Blazewicz	1	38	BlazewiczEP19 [97]
Christian Blum	1	13	ThiruvadyBME09 [586]
Grzegorz Bocewicz	1	0	BocewiczBB09 [101]
Markus Bohlin	1	0	AronssonBK09 [29]
Peter Bongers	1	381	HarjunkoskiMBC14 [281]
Nicolas Bonifas	1	3	BaptisteB18 [46]
Camille Bonnin	1	0	BonninMNE24 [114]
Eric Boucher	1	0	BoucherBVBL97 [117]
Raphaël Boudreault	1	0	BoudreaultSLQ22 [118]
Jean-Louis Bouquard	1	22	LorigeonBB02 [413]
Eric Bourreau	1	4	BourreauGGLT22 [119]
Nadia Brauner	1	0	CatusseCBL16 [140]
Silvia Breitingner	1	0	BreitingnerL95 [120]
Kristen Brent Venable	1	1	GelainPRVW17 [241]
D. Brodart	1	1	OujanaAYB22 [489]

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Author	Nr Works	Nr Cites	Entries
Yuriy Brun	1	9	ShinBBHO18 [552]
Vittorio Brusoni	1	1	BrusoniCLMMT96 [124]
Josef Bürgler	1	2	KoehlerBFFHPSSS21 [350]
Jacek Błażewicz	1	344	BlazewiczDP96 [126]
Cristina C. B. Cavalcante	1	5	HeipckeCCS00 [299]
Lionel C. Briand	1	3	AlesioNBG14 [182]
Eugene C. Freuder	1	0	CarchraeBF05 [133]
Kevin C. Furman	1	48	GoelSHFS15 [250]
Joseph C. Pemberton	1	26	PembertonG98 [496]
Hendrik C. R. Lock	1	0	BreitingerL95 [120]
Erich C. Teppan	1	3	ColT22 [161]
Matthew C. Gombolay	1	71	GombolayWS18 [255]
Eray Cakici	1	50	HamC16 [278]
Louis-Pierre Campeau	1	0	CampeauG22 [129]
Cid Carvalho de Souza	1	31	LopesCSM10 [411]
Yves Caseau	1	0	Caseau97 [138]
Oscar Castillo	1	55	ZarandiASC20 [656]
Nicolas Catusse	1	0	CatusseCBL16 [140]
Yao-Ting Chang	1	2	HoYCLLC18 [305]
Nicolas Chapados	1	5	ChapadosJR11 [146]
Philippe Charlier	1	11	SimonisCK00 [562]
Yarong Chen	1	2	ChenGPSH10 [147]
Mohammad Cherkaoui	1	0	FallahiAC20 [210]
Han-Mo Chiu	1	2	HoYCLLC18 [305]
Yeonjun Choi	1	0	KimCMLLP23 [347]
Yingyi Chu	1	13	ChuX05 [149]
Sue-Min Chu	1	2	HoYCLLC18 [305]
Hoong Chuin Lau	1	0	LauLN08 [380]
Italo Cipriano	1	0	HillBCGN22 [303]
Michael Codish	1	127	OhrimenkoSC09 [485]
Carleton Coffrin	1	14	SchausHMCMD11 [533]
Eldan Cohen	1	1	CohenHB17 [155]
Jordi Coll	1	1	BofillCSV17 [103]
Luca Console	1	1	BrusoniCLMMT96 [124]
E Contejean	1	167	BeldiceanuC94 [78]
Trijntje Cornelissens	1	17	SimonisC95 [563]
Gabriella Cortellessa	1	8	OddiPCC03 [484]
Nicolás Cuneo	1	0	YuraszeckMCCR23 [653]
Kateryna Czerniachowska	1	0	CzerniachowskaWZ23 [160]
Alain Côté	1	0	PopovicCGNC22 [506]
Kenneth D. Young	1	6	YoungFS17 [648]
Laurent D. Michel	1	3	FontaineMH16 [217]
Steven D. Prestwich	1	6	RossiTHP07 [526]
Michael D. Moffitt	1	0	MoffittPP05 [444]
Jean Damay	1	3	NeronABCD06 [483]
Ken Darby-Dowman	1	28	Darby-DowmanLMZ97 [164]
Vivian De Smedt	1	7	GaySS14 [234]
Alexis De Clercq	1	3	ClercqPB11 [152]
Rina Dechter	1	10	FrostD98 [226]
Carmelo Del Valle	1	7	ValleMGTO3 [607]
Xavier Delorme	1	0	RodriguezDG02 [521]
Alain Demeure	1	0	JourdanFRD94 [328]
Emir Demirovic	1	4	DemirovicS18 [178]
Roberto Di Cosmo	1	0	LiuCGM17 [398]
Guido Diepen	1	2	AkkerDH07 [608]

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Author	Nr Works	Nr Cites	Entries
Bistra Dilkina	1	2	DilkinaDH05 [183]
Mehmet Dincbas	1	86	DincbasSH90 [185]
Yann Disser	1	0	EmdeZD22 [200]
Alexandre Dolgui	1	2	NouriMHD23 [606]
Ulrich Domdorf	1	0	DomdorfPH03 [186]
Wolfgang Domschke	1	344	BlazewiczDP96 [126]
Grégoire Dooms	1	1	DoomsH08 [187]
Agostino Dovier	1	0	TardivoDFMP23 [577]
Yuquan Du	1	27	QinDCS20 [514]
Lei Duan	1	2	DilkinaDH05 [183]
Alexandre Duarte de Almeida Lemos	1	0	Lemos21 [383]
Didier Dubois	1	13	FortinZDF05 [219]
Pierre Dupont	1	0	MonetteDD07 [446]
David Duvivier	1	36	WangMD15 [632]
Kyle E. C. Booth	1	21	BoothNB16 [115]
Marco E. Lübbecke	1	28	BertholdHLS10 [92]
Andrew E. Santosa	1	0	ZhuS02 [667]
Martha E. Pollack	1	0	MoffittPP05 [444]
Kyle E.C. Booth	1	24	RoshanaeiBAUB20 [523]
Nikolaos Efthymiou	1	0	EfthymiouY23 [195]
Gokhan Egilmez	1	43	GedikKEK18 [235]
Péter Egri	1	2	KovacsEKV05 [359]
Nizar El Hachemi	1	32	HachemiGR11 [274]
Ghada El Khayat	1	84	KhayatLR06 [345]
Abdellah El Fallahi	1	0	FallahiAC20 [210]
Özgün Elçi	1	2	ElciOH22 [196]
Simon Emde	1	0	EmdeZD22 [200]
Eyüp Ensar Isik	1	0	IsikYA23 [323]
Teresa Escobet	1	17	EscobetPQPRA19 [202]
Joan Espasa	1	3	BofillEGPSV14 [104]
Marie-Laure Espinouse	1	0	BonninMNE24 [114]
Alireza Etminaniefahani	1	0	EtminaniefahaniGNMS22 [203]
Michael F. Gorman	1	0	KanetAG04 [341]
Richard F. Hartl	1	24	SchnellH15 [535]
Mohd Fadlee A. Rasid	1	0	AkramNHRSA23 [13]
François Fages	1	0	JourdanFRD94 [328]
Moreno Falaschi	1	10	FalaschiGMP97 [209]
Huali Fan	1	18	FanXG21 [211]
Hélène Fargier	1	13	FortinZDF05 [219]
Soroush Fatemi-Anaraki	1	7	Fatemi-AnarakiTFV23 [213]
Filippo Focacci	1	0	FocacciLN00 [216]
Daniel Fontaine	1	3	FontaineMH16 [217]
Urs Fontana	1	2	KoehlerBFFHPSSS21 [350]
M.A. Forbes	1	0	ForbesHJST24 [218]
Andrea Formisano	1	0	TardivoDFMP23 [577]
Jérôme Fortin	1	13	FortinZDF05 [219]
Mehdi Foumani	1	7	Fatemi-AnarakiTFV23 [213]
Gerhard Friedrich	1	3	FriedrichFMRSS14 [222]
Sara Frimodig	1	3	FrimodigS19 [223]
Aurélien Froger	1	0	Froger16 [224]
Nikolaus Frohner	1	0	FrohnerTR19 [225]
Daniel Frost	1	10	FrostD98 [226]
Melanie Frühstück	1	3	FriedrichFMRSS14 [222]
Jun Fu	1	0	LiFJZLL22 [389]

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Author	Nr Works	Nr Cites	Entries
Etienne Fux	1	2	KoehlerBFFHPSSS21 [350]
Ernesto G. Birgin	1	30	LunardiBLRV20 [415]
Mohamed Gaha	1	0	PopovicCGNC22 [506]
Flavius Galiber III	1	26	PembertonG98 [496]
Cristian Galleguillos	1	1	GalleguillosKSB19 [227]
Xavier Gandibleux	1	0	RodriguezDG02 [521]
Graeme Gange	1	6	He0GLW18 [286]
Thierry Garaix	1	4	BourreauGGTL22 [119]
Maria Garcia de la Banda	1	24	BandaSC11 [171]
Antoine Gargani	1	17	GarganiR07 [228]
Serge Gaspers	1	0	ChuGNSW13 [148]
Jonathan Gaudreault	1	2	Mercier-AubinGQ20 [439]
Ridvan Gedik	1	43	GedikKEK18 [235]
Marc Geitz	1	0	GeitzGSSW22 [240]
Mirco Gelain	1	1	GelainPRVW17 [241]
Michel Gendreau	1	32	HachemiGR11 [274]
Wing-Yue Geoffrey Louie	1	16	LouieVNB14 [414]
Marcus Gerhard Müller	1	17	MullerMKP22 [453]
Patrick Gerhards	1	0	HubnerGSV21 [320]
Grigori German	1	0	German18 [242]
Ulrich Geske	1	2	Geske05 [243]
Shirin Ghasemi	1	0	GhasemiMH23 [244]
Katherine Giles	1	2	GilesH16 [245]
Gaël Glorian	1	0	PerezGSL23 [498]
Gael Glorian	1	0	abs-2312-13682 [499]
Daniel Godard	1	0	GodardLN05 [247]
Vikas Goel	1	48	GoelSHFS15 [250]
Mark Goh	1	18	FanXG21 [211]
Hans-Joachim Goltz	1	7	Goltz95 [254]
Matthieu Gondran	1	4	BourreauGGLT22 [119]
Inés González-Rodríguez	1	0	AfsarVPG23 [8]
Marcos Goycoolea	1	0	HillBCGN22 [303]
Cristian Grozea	1	0	GeitzGSSW22 [240]
Flavius Gruian	1	5	GruianK98 [266]
Zailin Guan	1	2	ChenGPSH10 [147]
Alessio Guerri	1	18	BeniniBGM06 [88]
Serigne Gueye	1	3	Acuna-AgostMFG09 [5]
Ying Guo	1	0	ZhouGL15 [666]
Peng Guo	1	8	GuoHLW20 [270]
Penghui Guo	1	0	GuoZ23 [271]
Olivier Guyon	1	32	GuyonLPR12 [273]
Seyda Gür	1	0	GurEA19 [672]
Burak Gökür	1	31	GokgurHO18 [251]
Seyda Gür	1	1	GurPAE23 [272]
Fehmi H'Mida	1	11	TrojetHL11 [604]
Rolf H. Möhring	1	28	BertholdHLMS10 [92]
John H. Drake	1	41	PourDERB18 [507]
M. H. Fazel Zarandi	1	28	ZarandiKS16 [655]
Klaus H. Ecker	1	38	BlazewiczEP19 [97]
Emile H. L. Aarts	1	0	NuijtenA94 [480]
Tarik Hadzic	1	3	SimonisH11 [564]
Mahdi Hamid	1	0	GhasemiMH23 [244]
Claire Hanen	1	1	HanenKP21 [279]
Jiang Hang Chen	1	27	QinDCS20 [514]
Sue Hanhiammi	1	2	KrogtLPHJ07 [610]

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Author	Nr Works	Nr Cites	Entries
Zdeněk Hanzálek	1	2	NouriMHD23 [606]
Mohamed Haouari	1	3	LahimerLH11 [377]
M.G. Harris	1	0	ForbesHJST24 [218]
Fazirulhisyam Hashim	1	0	AkramNHRSA23 [13]
Muhammad Hasseb	1	2	ChenGPSH10 [147]
Shan He	1	6	He0GLW18 [286]
Xun He	1	8	GuoHLW20 [270]
Ivan Heckman	1	0	HeckmanB11 [291]
Susanne Heipcke	1	5	HeipckeCCS00 [299]
Fabien Hermenier	1	28	HermenierDL11 [302]
Gerhard Hiermann	1	14	RendlPHPR12 [518]
Te-Wei Ho	1	2	HoYCLLC18 [305]
Petra Hofstedt	1	1	LiuLH19 [397]
Markó Horváth	1	5	NattafHKAL19 [468]
Mohammad Hossein Fazel	1	55	ZarandiASC20 [656]
Zarandi			
John Hou	1	1	DavenportKRS07 [166]
Guoyu Huang	1	1	CohenHB17 [155]
Barry Hurley	1	0	HurleyOS16 [321]
Felix Hübner	1	0	HubnerGSV21 [320]
Ayoub Insa Corréa	1	106	CorreaLR07 [159]
Amar Isli	1	3	BelhadjiI98 [83]
Mustafa Ismael Salman	1	0	AkramNHRSA23 [13]
Fernando J. M. Marcellino	1	0	SerraNM12 [548]
Leon J. Osterweil	1	9	ShinBBHO18 [552]
H. J. Kim	1	12	SureshMOK06 [570]
John J. Kanet	1	0	KanetAG04 [341]
Colin J. Layfield	1	0	Layfield02 [382]
Andrew J. Mason	1	5	Mason01 [431]
Steven J. Edwards	1	3	EdwardsBSE19 [194]
Ronald J. Wilcox	1	71	GombolayWS18 [255]
Andrea J. Brickey	1	0	HillBCGN22 [303]
Vipul Jain	1	279	JainG01 [325]
A.S. Jain	1	490	JainM99 [324]
H.M. Jansen	1	0	ForbesHJST24 [218]
Jean Jaubert	1	0	PraletLJ15 [510]
Jan Jelínek	1	0	JelinekB16 [327]
Yingjun Ji	1	0	ZhangJZL22 [659]
Zixi Jia	1	0	LiFJZLL22 [389]
Yunfei Jiang	1	0	LiuJ06 [399]
Yue Jin	1	2	KrogtLPHJ07 [610]
Marc Joliveau	1	5	ChapadosJR11 [146]
Peter Jonsson	1	1	AngelsmarkJ00 [18]
Juan José Palacios	1	0	AfsarVPG23 [8]
Antoine Jouglet	1	3	CarlierSJP21 [137]
Jean Jourdan	1	0	JourdanFRD94 [328]
Nicolas Jozefowicz	1	9	HebrardHJMPV16 [288]
Jae-Yoon Jung	1	1	ParkUJR19 [495]
Pascal Jungblut	1	0	JungblutK22 [329]
T. K. Satish Kumar	1	4	Kumar03 [369]
Edmund K. Burke	1	41	PourDERB18 [507]
Mustafa K. Dogru	1	8	TerekhovDOB12 [582]
T. K. Feng	1	43	BeckFW11 [66]
Jayant Kalagnanam	1	1	DavenportKRS07 [166]
Darshan Kalathia	1	43	GedikKEK18 [235]

Table 8: Co-Authors of Articles/Papers

Author	Nr Works	Nr Cites	Entries
Olli Kamarainen	1	9	KamarainenS02 [334]
Nor Kamariah Noordin	1	0	AkramNHSA23 [13]
Philip Kay	1	11	SimonisCK00 [562]
Elena Kelareva	1	16	KelarevaTK13 [342]
Jan Kelbel	1	12	KelbelH11 [343]
H. Khorshidian	1	28	ZarandiKS16 [655]
Kamran Kianfar	1	0	YounespourAKE19 [647]
Philip Kilby	1	16	KelarevaTK13 [342]
Dongyun Kim	1	0	KimCMLLP23 [347]
Emre Kirac	1	43	GedikKEK18 [235]
Zeynep Kiziltan	1	1	GalleguillosKSB19 [227]
Christian Klanke	1	3	KlankeBYE21 [348]
Jana Koehler	1	2	KoehlerBFFHPSSS21 [350]
Wolfgang Kohlenbrein	1	0	KovacsTKSG21 [363]
Rainer Kolisch	1	4	PohlAK22 [504]
Sebastian Kosch	1	4	KoschB14 [355]
Benjamin Kovács	1	0	KovacsTKSG21 [363]
Matthias Krainz	1	0	GeibingerKKMMW21 [236]
Andreas Krall	1	14	ErtlK91 [201]
Dieter Kranzlmüller	1	0	JungblutK22 [329]
Dominik Kress	1	17	MullerMKP22 [453]
Per Kreuger	1	0	AronssonBK09 [29]
Mustafa Küçük	1	0	KucukY19 [370]
Elif Kürklü	1	4	FrankK05 [221]
András Kéri	1	1	KeriK07 [344]
Michael L. Pinedo	1	0	KimCMLLP23 [347]
Hassan L. Hijazi	1	2	LimHTB16 [392]
Philip L. Henneman	1	9	ShinBBHO18 [552]
Yiqing L. Luo	1	0	LuoB22 [418]
Philippe Lacomme	1	4	BourreauGGLT22 [119]
Daniel Lafond	1	0	BoudreaultSLQ22 [118]
Anne-Marie Lagrange	1	0	CatusseCBL16 [140]
Asma Lahimer	1	3	LahimerLH11 [377]
Feipei Lai	1	2	HoYCLLC18 [305]
Jui-Fen Lai	1	2	HoYCLLC18 [305]
André Langevin	1	106	CorreaLR07 [159]
Alexander Lazarev	1	12	ArkipovBL19 [25]
Christophe Lecoutre	1	20	GayHLS15 [231]
Myungho Lee	1	0	KimCMLLP23 [347]
Kangbok Lee	1	0	KimCMLLP23 [347]
Solange Lemai-Chenevier	1	0	PraletLJ15 [510]
Xingyang Li	1	0	LiFJZLL22 [389]
Siyi Li	1	0	LiFJZLL22 [389]
Xiaodong Li	1	0	abs-2211-14492 [568]
Guipeng Li	1	0	ZhouGL15 [666]
Hong Li	1	4	SunLYL10 [569]
Nan Li	1	4	SunLYL10 [569]
Yunbo Li	1	1	Madi-WambaLOBM17 [420]
Heyse Li	1	8	TranPZLDB18 [599]
Yi Li	1	0	LuoVLBM16 [417]
Haitao Li	1	113	LiW08 [388]
Wan-Chung Liao	1	2	HoYCLLC18 [305]
Ariel Liebman	1	6	He0GLW18 [286]
Olivier Liess	1	22	LiessM08 [390]
Andrew Lim	1	5	LimRX04 [391]

Table 8: Co-Authors of Articles/Papers

Author	Nr Works	Nr Cites	Entries
Tong Liu	1	0	LiuCGM17 [398]
Lingxuan Liu	1	12	QinWSLS21 [513]
Ke Liu	1	1	LiuLH19 [397]
Rengkui Liu	1	24	TangLWSK18 [576]
Yuechang Liu	1	0	LiuJ06 [399]
Giovanni Lo Bianco	1	0	ZhangBB22 [660]
Doina Logofatu	1	2	BadicaBIL19 [40]
Thomas Lorigeon	1	22	LorigeonBB02 [413]
Yulin Luan	1	8	GuoHLW20 [270]
Roy Luo	1	0	LuoVLBM16 [417]
Arnaud Lusson	1	0	HebrardALLCMR22 [287]
Chang Lv	1	100	MengZRZL20 [437]
Zhimin Lv	1	1	ZhangLS12 [663]
Sven Löffler	1	1	LiuLH19 [397]
J. M. van den Akker	1	2	AkkerDH07 [608]
Abdulrahman M. Abdulghani	1	0	AkramNHRSA23 [13]
O. M. Alade	1	0	abs-1902-01193 [14]
Shahrazad M. Pour	1	41	PourDERB18 [507]
Franco M. Novara	1	18	NovaraNH16 [475]
Rafael M. Gasca	1	7	ValleMGTO3 [607]
Jose M. Framinan	1	0	AbreuPNF23 [3]
Andy M. Ham	1	50	HamC16 [278]
Mohammad M. Fazel-Zarandi	1	38	ZarandiB12 [214]
Jun Ma	1	1	MakMS10 [421]
Amy Mainville Cohn	1	1	BarlattCG08 [52]
Kai-Ling Mak	1	1	MakMS10 [421]
V. Mani	1	12	SureshMOK06 [570]
Oscar Manzano	1	1	MurphyMB15 [455]
Christos Maravelias	1	0	AggounMV08 [10]
Kourosh Marjani Rasmussen	1	41	PourDERB18 [507]
Kim Marriott	1	10	FalaschiGMP97 [209]
Fae Martin	1	11	MartinPY01 [429]
Jim McInnes	1	15	MalikMB08 [427]
S. Meeran	1	490	JainM99 [324]
Zahra Mehdizadeh-Somarin	1	0	Mehdizadeh-Somarin23 [432]
Haci Mehmet Alakas	1	1	GurPAE23 [272]
Haci Mehmet Alakas	1	0	GurEA19 [672]
Sebastian Meiswinkel	1	0	WinterMMW22 [637]
Gonzalo Mejía	1	6	YuraszeckMPV22 [652]
Hein Meling	1	6	MossigeGSMC17 [450]
Julien Menana	1	0	Menana11 [434]
Jean-Marc Menaud	1	1	Madi-WambaLOBM17 [420]
Leilei Meng	1	100	MengZRZL20 [437]
Luc Mercier	1	32	MercierH08 [438]
Alexandre Mercier-Aubin	1	2	Mercier-AubinGQ20 [439]
Vera Mersheeva	1	3	FriedrichFMRSS14 [222]
Nadine Meskens	1	36	WangMD15 [632]
Bernd Meyer	1	13	ThiruvadyBME09 [586]
Kyung Min Kim	1	0	HamPK21 [277]
Gautam Mitra	1	28	Darby-DowmanLMZ97 [164]
Elizabeth Montero	1	0	YuraszeckMCCR23 [653]
Kyungduk Moon	1	0	KimCMLLP23 [347]
Leila Moslemi Naeni	1	0	EtminaniesfahaniGNMS22 [203]
Morten Mossige	1	6	MossigeGSMC17 [450]
Alix Munier Kordon	1	1	HanenKP21 [279]

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Author	Nr Works	Nr Cites	Entries
Stanislav Murín	1	2	MurinR19 [454]
Nicola Muscettola	1	14	Muscettola02 [456]
David Müller	1	17	MullerMKP22 [453]
András Márkus	1	2	VanczaM01 [612]
Marc-André Ménard	1	1	BessiereHMQW14 [93]
Carlos Méndez	1	381	HarjunoskiMBC14 [281]
T. N. Wong	1	6	ZhangYW21 [661]
S. N. Omkar	1	12	SureshMOK06 [570]
Nina Narodytska	1	0	ChuGNSW13 [148]
Shiva Nejati	1	3	AlesioNBG14 [182]
Alexandra Newman	1	0	HillBCGN22 [303]
Franklin Nguewouo	1	0	PopovicCGNC22 [506]
Gilberto Nishioka	1	0	SerraNM12 [548]
Thierry Noulamo	1	0	KameugneFND23 [338]
W.P.M. Nuijten	1	65	NuijtenA96 [482]
Jari Nurmi	1	2	QuSN06 [515]
Emmanuel Néron	1	3	NeronABCDD06 [483]
A. O. Amusat	1	0	abs-1902-01193 [14]
Ceyda Oguz	1	5	EdisO11 [192]
Olga Ohrimenko	1	127	OhrimenkoSC09 [485]
Bilal Omar Akram	1	0	AkramNHRSA23 [13]
Mirza Omer Beg	1	1	BegB13 [75]
Anne-Cécile Orgerie	1	1	Madi-WambaLOBM17 [420]
Gregor Ottosson	1	317	HookerO03 [315]
Greger Ottosson	1	14	MilanoORT02 [441]
Mohand Ou Idir Khemmoudj	1	8	KhemmoudjPB06 [346]
Pierre Ouellet	1	12	OuelletQ13 [486]
Soukaina Oujana	1	1	OujanaAYB22 [489]
Asma Ouled Bedhief	1	0	Bedhief21 [74]
Débora P. Ronconi	1	30	LunardiBLRV20 [415]
Edward P. K. Tsang	1	1	Tsang03 [605]
W. P. M. Nuijten	1	0	NuijtenA94 [480]
Bradley P. Allen	1	0	FoxAS82 [220]
Meghana Padmanabhan	1	8	TranPZLDB18 [599]
Miquel Palahí	1	3	BofillEGPSV14 [104]
Catuscia Palamidessi	1	10	FalaschiGMP97 [209]
Pere Palà-Schönwälder	1	17	EscobetPQPRA19 [202]
Vaibhav Pandey	1	3	PandeyS21a [491]
Hoonseok Park	1	1	ParkUJR19 [495]
Myoung-Ju Park	1	0	HamPK21 [277]
Erica Pastore	1	0	AlfieriGPS23 [15]
Theo Pedersen	1	1	HanenKP21 [279]
Bart Peintner	1	0	MoffittPP05 [444]
Yunfang Peng	1	2	ChenGPSH10 [147]
Louise Penz	1	0	PenzDN23 [497]
Bernard Penz	1	0	CatusseCBL16 [140]
Jordi Pereira	1	6	YuraszeckMPV22 [652]
Laurent Perron	1	21	DannaP03 [163]
Toãn Phan Huy	1	0	DomdorfPH03 [186]
Mehmet Pinarbasi	1	1	GurPAE23 [272]
Arthur Pinkney	1	11	MartinPY01 [429]
Eric Pinson	1	3	CarlierSJP21 [137]
Eric Pinson	1	32	GuyonLPR12 [273]
David Pisinger	1	2	SacramentoSP20 [528]
Maximilian Pohl	1	4	PohlAK22 [504]

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Author	Nr Works	Nr Cites	Entries
Oliver Polo-Mejía	1	8	Polo-MejiaALB20 [505]
Paul Pop	1	0	BarzegaranZP20 [61]
Louis Popovic	1	0	PopovicCGNC22 [506]
Marc Porcheron	1	8	KhemmoudjPB06 [346]
Marc Pouly	1	2	KoehlerBFFHPSSS21 [350]
Guillaume Povéda	1	0	PovedaAA23 [508]
Matthias Prandtstetter	1	14	RendlPHPR12 [518]
Patrick Prosser	1	0	BeckPS03 [69]
Jakob Puchinger	1	14	RendlPHPR12 [518]
Jean-Francois Puget	1	6	Puget95 [512]
Vicenç Puig	1	17	EscobetPQPRA19 [202]
Kenneth Pulliam	1	2	KrogtLPHJ07 [610]
Karim Pérez Martínez	1	1	MartnezAJ22 [430]
Kenny Qili Zhu	1	0	ZhuS02 [667]
Ming Qin	1	12	QinWLS21 [513]
Tianbao Qin	1	27	QinDCS20 [514]
Yang Qu	1	2	QuSN06 [515]
Yuchen Quan	1	2	ShiYXQ22 [551]
Joseba Quevedo	1	17	EscobetPQPRA19 [202]
Alain Quilliot	1	0	ArtiguesHQT21 [32]
Claude-Guy Quimper	1	0	FahimiQ23 [208]
Dominik R. Bleidorn	1	3	KlankeBYE21 [348]
Aliza R. Heching	1	10	HechingH16 [290]
Gregg R. Rabideau	1	0	HebrardALLCMR22 [287]
Camino R. Vela	1	0	AfsarVPG23 [8]
Chandra Reddy	1	1	DavenportKRSH07 [166]
Francisco Regis Abreu Gomes	1	1	GomesM17 [257]
Yaping Ren	1	100	MengZRZL20 [437]
Andrea Rendl	1	14	RendlPHPR12 [518]
Hamid Reza Feyzmahdavian	1	2	Astrand0F21 [36]
Vahid Riahi	1	0	RiahiNS018 [519]
Diane Riopel	1	84	KhayatLR06 [345]
Gregory Rix	1	1	PesantRR15 [500]
Geraldo Robson Mateus	1	1	GomesM17 [257]
Robert Rodosek	1	19	RodosekW98 [520]
Brian Rodrigues	1	5	LimRX04 [391]
Joaquín Rodríguez	1	117	Rodriguez07 [522]
Joaquin Rodriguez	1	0	RodriguezDG02 [521]
Jerome Rogerie	1	148	LaborieRSV18 [374]
Mohammad Rohaninejad	1	0	Mehdizadeh-Somarin23 [432]
Maximiliano Rojel	1	0	YuraszeckMCCR23 [653]
Juli Romera	1	17	EscobetPQPRA19 [202]
Roberto Rossi	1	6	RossiTHP07 [526]
François Roubellat	1	84	ArtiguesR00 [33]
Stéphanie Roussel	1	0	SquillaciPR23 [566]
Didier Rozzonelli	1	0	JourdanFRD94 [328]
Pascal Rubini	1	0	CatusseCBL16 [140]
Hana Rudová	1	2	MurinR19 [454]
Rubén Ruiz	1	2	NaderiRR23 [462]
Martin Ruskowski	1	1	ParkUJR19 [495]
Anna Ryabokon	1	3	FriedrichFMRSS14 [222]
William S. Havens	1	2	DilkinaDH05 [183]
Mohamed S. Gheith	1	1	AbohashimaEG21 [2]
Gregory S. Zaric	1	3	NaderiBZ22a [458]
David Sacramento	1	2	SacramentoSP20 [528]

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Author	Nr Works	Nr Cites	Entries
Shahram Saeidi	1	1	AlizdehS20 [16]
Abderrahim Sahli	1	3	CarlierSJP21 [137]
Poonam Saini	1	3	PandeyS21a [491]
Fabio Salassa	1	0	AlfieriGPS23 [15]
Amir Salehipour	1	0	EtminaniesfahaniGNMS22 [203]
Sophia Saller	1	2	KoehlerBFFHPSSS21 [350]
Anastasia Salyaeva	1	2	KoehlerBFFHPSSS21 [350]
Guido Sand	1	381	HarjunkoskiMBC14 [281]
Maria Sander	1	3	FriedrichFMRSS14 [222]
Eric Sanlaville	1	7	PoderBS04 [503]
Óscar Sapena	1	22	GarridoOS08 [230]
Özge Satir Akpunar	1	0	IsikYA23 [323]
Abdul Sattar	1	0	RiahiNS018 [519]
Peter Scheiblechner	1	2	KoehlerBFFHPSSS21 [350]
Klaus Schild	1	23	SchildW00 [534]
Thomas Schlechte	1	10	HeinzSSW12 [294]
Thorsten Schmidt	1	1	BenderWS21 [84]
Günter Schmidt	1	38	BlazewiczEP19 [97]
Alexander Schnell	1	24	SchnellH15 [535]
Philipp Schrott-Kostwein	1	0	KovacsTKSG21 [363]
Uwe Schwiegelshohn	1	4	LimtanyakulS12 [395]
Lena Secher Ejlersen	1	41	PourDERB18 [507]
Evgeny Selensky	1	0	BeckPS03 [69]
Thiago Serra	1	0	SerraNM12 [548]
Mei Sha	1	27	QinDCS20 [514]
Yufen Shao	1	48	GoelSHFS15 [250]
Xinyu Shao	1	2	ChenGPSH10 [147]
Ganquan Shi	1	2	ShiYXQ22 [551]
Zhongshun Shi	1	12	QinWSLS21 [513]
Leyuan Shi	1	12	QinWSLS21 [513]
Stuart Siegel	1	1	DavenportKRSH07 [166]
Maria Silvia Pini	1	1	GelainPRVW17 [241]
Vanessa Simard	1	0	BoudreaultSLQ22 [118]
Pawel Sitek	1	0	WikarekS19 [636]
M. Slusky	1	48	GoelSHFS15 [250]
Kate Smith-Miles	1	3	EdwardsBSE19 [194]
Juha-Pekka Soininen	1	2	QuSN06 [515]
Junbo Son	1	1	ZhuSZW23 [668]
Xiaoqing Song	1	1	ZhangLS12 [663]
Shahabeddin Sotudian	1	55	ZarandiASC20 [656]
Francis Sourd	1	7	SourdN00 [565]
Helge Spieker	1	6	MossigeGSMC17 [450]
Samuel Squillaci	1	0	SquillaciPR23 [566]
Andreas Starzacher	1	3	FriedrichFMRSS14 [222]
Wolfgang Steigerwald	1	0	GeitzGSSW22 [240]
Rüdiger Stephan	1	10	HeinzSSW12 [294]
Malgorzata Sterna	1	38	BlazewiczEP19 [97]
Gary Stroh	1	0	FoxAS82 [220]
Robin Stöhr	1	0	GeitzGSSW22 [240]
Christian Stürck	1	0	HubnerGSV21 [320]
Kaile Su	1	0	RiahiNS018 [519]
Wei Su	1	1	MakMS10 [421]
Kemal Subulan	1	5	SubulanC22 [567]
Premysl Sucha	1	2	BenediktSMVH18 [87]
Quanxin Sun	1	24	TangLWSK18 [576]

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Author	Nr Works	Nr Cites	Entries
Zheng Sun	1	4	SunLYL10 [569]
Suresh Sundaram	1	12	SureshMOK06 [570]
Pavel Surynek	1	2	BartakCS10 [56]
Jirí Svancara	1	0	SvancaraB22 [571]
Ria Szeredi	1	9	SzerediS16 [572]
Alina Sirbu	1	1	GalleguillosKSB19 [227]
Willian T. Lunardi	1	30	LunardiBLRV20 [415]
T. Taimre	1	0	ForbesHJST24 [218]
Yingcong Tan	1	1	TanT18 [574]
Siyu Tang	1	7	VlkHT21 [625]
Yuanjie Tang	1	24	TangLWSK18 [576]
Fabio Tardivo	1	0	TardivoDFMP23 [577]
Armagan Tarim	1	6	RossiTHP07 [526]
Ehsan Tarkesh Esfahani	1	0	YounespourAKE19 [647]
Nikolay Tchernev	1	4	BourreauGGLT22 [119]
Paolo Terenziani	1	1	BrusoniCLMMT96 [124]
Willian Tessaro Lunardi	1	0	Lunardi20 [416]
Stephan Teuschl	1	0	FrohnerTR19 [225]
Jordan Ticktin	1	0	HillTV21 [304]
Kevin Tierney	1	16	KelarevaTK13 [342]
Christian Timpe	1	42	Timpe02 [590]
Mary Tom	1	0	Tom19 [591]
Seyda Topaloglu	1	46	TopalogluO11 [592]
Miguel Toro	1	7	ValleMGTO3 [607]
Philippe Torres	1	26	TorresL00 [593]
Meriem Touat	1	0	TouatBT22 [594]
Touraivane	1	2	Touraivane95 [595]
Hélène Toussaint	1	0	ArtiguesHQT21 [32]
Mariem Trojet	1	11	TrojetHL11 [604]
Semra Tunali	1	31	OzturkTHO13 [490]
Paul Tyler	1	0	HebrardTW05 [289]
Jumyung Um	1	1	ParkUJR19 [495]
David Urbach	1	61	RoshanaeiLAU17 [524]
J. V. Moccellini	1	0	AbreuAPNM21 [167]
Sasha Van Cauwelaert	1	2	CauwelaertDS20 [143]
Alkis Vazacopoulos	1	0	AggounMV08 [10]
Thierry Vidal	1	58	BidotVLB09 [94]
Karen Villaverde	1	0	VillaverdeP04 [624]
Mariona Vilà	1	6	YuraszeckMPV22 [652]
Rebekka Volk	1	0	HubnerGSV21 [320]
Holger Voos	1	30	LunardiBLRV20 [415]
Thomas W. M. Vossen	1	0	HillTV21 [304]
Kai Waelti	1	2	KoehlerBFFHPSSS21 [350]
Runsen Wang	1	12	QinWSLS21 [513]
Futian Wang	1	24	TangLWSK18 [576]
Shouyang Wang	1	49	ZhangW18 [662]
Tao Wang	1	36	WangMD15 [632]
Yi Wang	1	8	GuoHLW20 [270]
Ezra Wari	1	11	WariZ19 [633]
John Wassick	1	381	HarjunkoskiMBC14 [281]
Jan Weglarz	1	38	BlazewiczEP19 [97]
Kong Wei Lye	1	0	LauLN08 [380]
Johan Wessén	1	2	WessenCS20 [635]
Radosław Wichniarek	1	0	CzerniachowskaWZ23 [160]
Jaroslav Wikarek	1	0	WikarekS19 [636]

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Author	Nr Works	Nr Cites	Entries
Campbell Wilson	1	6	He0GLW18 [286]
Michael Winkler	1	10	HeinzSSW12 [294]
David Wittwer	1	1	BenderWS21 [84]
Keith Womer	1	113	LiW08 [388]
Jianguo Wu	1	1	ZhuSZW23 [668]
Cheng-Hung Wu	1	14	NattafDYW19 [467]
Jörg Würtz	1	23	SchildW00 [534]
Quanshi Xia	1	13	ChuX05 [149]
Hegen Xiong	1	18	FanXG21 [211]
Zhou Xu	1	5	LimRX04 [391]
Yang Xu	1	2	ShiYXQ22 [551]
Tanya Y. Tang	1	6	TangB20 [575]
El Yaakoubi Anass	1	0	FallahiAC20 [210]
Hong Yan	1	8	HookerY02 [317]
Moli Yang	1	1	YangSS19 [646]
Zhouwang Yang	1	2	ShiYXQ22 [551]
Jia-Sheng Yao	1	2	HoYCLLC18 [305]
Min Yao	1	4	SunLYL10 [569]
Seung Yeob Shin	1	9	ShinBBHO18 [552]
Vassilios Yfantis	1	3	KlankeBYE21 [348]
Maryam Younespour	1	0	YounespourAKE19 [647]
Chunxia Yu	1	6	ZhangYW21 [661]
Xinghuo Yu	1	11	MartinPY01 [429]
Oleg Yu. Gusikhin	1	1	BarlattCG08 [52]
Claude Yugma	1	14	NattafDYW19 [467]
Peter Yun Zhang	1	8	TranPZLDB18 [599]
Pinar Yunusoglu	1	20	YunusogluY22 [650]
Marco Zaffalon	1	28	Darby-DowmanLMZ97 [164]
Boukhalfa Zahout	1	0	Zahout21 [654]
Stéphane Zampelli	1	3	DerrienPZ14 [181]
Bahram Zarrin	1	0	BarzegaranZP20 [61]
Shohre Zehtabian	1	0	EmdeZD22 [200]
Mengjie Zhang	1	0	abs-2402-00459 [471]
Haotian Zhang	1	0	ZhangJZL22 [659]
Luping Zhang	1	6	ZhangYW21 [661]
Chaoyong Zhang	1	100	MengZRZL20 [437]
Biao Zhang	1	100	MengZRZL20 [437]
Sicheng Zhang	1	49	ZhangW18 [662]
Xujun Zhang	1	1	ZhangLS12 [663]
Lihui Zhang	1	0	ZouZ20 [671]
Jiachen Zhang	1	0	ZhangBB22 [660]
Guoqing Zhang	1	0	NaderiBZ22 [459]
Xi Zhang	1	1	ZhuSZW23 [668]
Jinlian Zhou	1	0	ZhouGL15 [666]
Weihang Zhu	1	11	WariZ19 [633]
Jianjun Zhu	1	0	GuoZ23 [271]
Xuedong Zhu	1	1	ZhuSZW23 [668]
Pawel Zielinski	1	13	FortinZDF05 [219]
Jürgen Zimmermann	1	25	KreterSSZ18 [366]
Xin Zou	1	0	ZouZ20 [671]
Mathijs de Weerd	1	1	BogaerdtW19 [609]
Bruno de Athayde Prata	1	0	AbreuAPNM21 [167]
Alexis de Clercq	1	0	Clercq12 [170]
Roman van der Krogt	1	2	KrogtLPHJ07 [610]
Pim van den Bogaerdt	1	1	BogaerdtW19 [609]

Table 8: Co-Authors of Articles/Papers

Author	Nr Works	Nr Cites	Entries
Willem-Jan van Hove	1	12	HookerH17 [316]
F.A. van der Schoot	1	0	ForbesHJST24 [218]
Stefano Di Alesio	1	3	AlesioNBG14 [182]
Ulas Özen	1	8	TerekhovDOB12 [582]
Selin Özpeynirci	1	31	GokgurHO18 [251]
Cemalettin Öztürk	1	31	OzturkTHO13 [490]
Nahum Álvarez	1	0	PovedaAA23 [508]
Seán Óg Murphy	1	1	MurphyMB15 [455]
Gizem Çakir	1	5	SubulanC22 [567]
Krzysztof Żywicki	1	0	CzerniachowskaWZ23 [160]

5 Most Cited Works

Table 9: Works from bibtex (Total 30)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
JainM99 JainM99	A. Jain, S. Meeran	Deterministic job-shop scheduling: Past, present and future	Yes	[324]	1999	European Journal of Operational Research	45	490	150	1357	1758
HarjunkoskiMBC14 HarjunkoskiMBC14	I. Harjunkoski, Christos T. Maravelias, P. Bongers, Pedro M. Castro, S. Engell, Ignacio E. Grossmann, John N. Hooker, C. Méndez, G. Sand, J. Wassick	Scope for industrial applications of production scheduling models and solution methods	Yes	[281]	2014	Computers Chemical Engineering	33	381	176	1340	1654
BlazewiczDP96 BlazewiczDP96	J. Błażewicz, W. Domschke, E. Pesch	The job shop scheduling problem: Conventional and new solution techniques	Yes	[126]	1996	European Journal of Operational Research	33	344	127	1283	1767
HookerO03 HookerO03	John N. Hooker, G. Ottosson	Logic-based Benders decomposition	Yes	[315]	2003	Mathematical Programming Book	28	317	0	1352	1734
BaptistePN01 BaptistePN01	P. Baptiste, Claude Le Pape, W. Nuijten	Constraint-Based Scheduling	No	[50]	2001	Book	null	296	0	No	n/a
JainG01 JainG01	V. Jain, Ignacio E. Grossmann	Algorithms for Hybrid MILP/CP Models for a Class of Optimization Problems	Yes	[325]	2001	INFORMS Journal on Computing	19	279	23	1356	1743
AggounB93 AggounB93	A. Aggoun, N. Beldiceanu	Extending CHIP in order to solve complex scheduling and placement problems	Yes	[9]	1993	Mathematical and Computer Modelling	17	187	11	1252	1772
Hooker00 Hooker00	John N. Hooker	Logic Based Methods for Optimization: Combining Optimization and Constraint Satisfaction	No	[306]	2000	Book	null	185	0	No	n/a
Hooker07 Hooker07	John N. Hooker	Planning and Scheduling by Logic-Based Benders Decomposition	Yes	[311]	2007	Operations Research	29	181	19	1350	1720
HarjunkoskiG02 HarjunkoskiG02	I. Harjunkoski, Ignacio E. Grossmann	Decomposition techniques for multistage scheduling problems using mixed-integer and constraint programming methods	Yes	[280]	2002	Computers Chemical Engineering	20	169	11	1339	1738
BeldiceanuC94 BeldiceanuC94	N. Beldiceanu, E. Contejean	Introducing Global Constraints in CHIP	Yes	[78]	1994	Mathematical and Computer Modelling	27	167	8	1276	1770
LaborieRSV18 LaborieRSV18	P. Laborie, J. Rogerie, P. Shaw, P. Vilím	IBM ILOG CP optimizer for scheduling - 20+ years of scheduling with constraints at IBM/ILOG	Yes	[374]	2018	Constraints An Int. J.	41	148	35	1375	1615
Laborie03 Laborie03	P. Laborie	Algorithms for propagating resource constraints in AI planning and scheduling: Existing approaches and new results	Yes	[371]	2003	Artificial Intelligence	38	128	10	1374	1736
OhrimenkoSC09 OhrimenkoSC09	O. Ohrimenko, Peter J. Stuckey, M. Codish	Propagation via lazy clause generation	Yes	[485]	2009	Constraints An Int. J.	35	127	15	1422	1707
KuB16 KuB16	W. Ku, J. Christopher Beck	Mixed Integer Programming models for job shop scheduling: A computational analysis	Yes	[367]	2016	Computers Operations Research	9	119	17	1372	1635
Rodriguez07 Rodriguez07	J. Rodriguez	A constraint programming model for real-time train scheduling at junctions	Yes	[522]	2007	Transportation Research Part B: Methodological	15	117	6	1435	1721
LiW08 LiW08	H. Li, K. Womer	Scheduling projects with multi-skilled personnel by a hybrid MILP/CP benders decomposition algorithm	Yes	[388]	2008	Journal of Scheduling	18	113	31	1379	1713
CorreaLR07 CorreaLR07	Ayoub Insa Corréa, A. Langevin, L. Rousseau	Scheduling and routing of automated guided vehicles: A hybrid approach	Yes	[159]	2007	Computers Operations Research	20	106	20	1301	1719
MengZRZL20 MengZRZL20	L. Meng, C. Zhang, Y. Ren, B. Zhang, C. Lv	Mixed-integer linear programming and constraint programming formulations for solving distributed flexible job shop scheduling problem	Yes	[437]	2020	Computers Industrial Engineering	13	100	62	1398	1579
BensanaLV99 BensanaLV99	E. Bensana, M. Lemaître, G. Verfaillie	Earth Observation Satellite Management	Yes	[91]	1999	Constraints An Int. J.	7	99	0	1281	1757

Table 9: Works from bibtex (Total 30)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
Pape94 Pape94	Claude Le Pape	Implementation of resource constraints in ILOG SCHEDULE: a library for the development of constraint-based scheduling systems	Yes	[492]	1994	Intelligent Systems Engineering	34	98	0	1426	1771
Wallace96 Wallace96	M. Wallace	Practical Applications of Constraint Programming	Yes	[627]	1996	Constraints An Int. J.	30	87	55	1471	1769
DincbasSH90 DincbasSH90	M. Dincbas, H. Simonis, Pascal Van Hentenryck	Solving Large Combinatorial Problems in Logic Programming	Yes	[185]	1990	J. Log. Program.	19	86	9	1305	1774
KhayatLR06 KhayatLR06	Ghada El Khayat, A. Langevin, D. Riopel	Integrated production and material handling scheduling using mathematical programming and constraint programming	Yes	[345]	2006	European Journal of Operational Research	15	84	14	1364	1724
ArtiguesR00 ArtiguesR00	C. Artigues, F. Roubellat	A polynomial activity insertion algorithm in a multi-resource schedule with cumulative constraints and multiple modes	Yes	[33]	2000	European Journal of Operational Research	20	84	3	1257	1746
SakkoutW00 SakkoutW00	Hani El Sakkout, M. Wallace	Probe Backtrack Search for Minimal Perturbation in Dynamic Scheduling	Yes	[531]	2000	Constraints An Int. J.	30	73	0	1442	1752
TranAB16 TranAB16	Tony T. Tran, A. Araujo, J. Christopher Beck	Decomposition Methods for the Parallel Machine Scheduling Problem with Setups	Yes	[596]	2016	INFORMS Journal on Computing	13	72	28	1464	1638
GombolayWS18 GombolayWS18	Matthew C. Gombolay, Ronald J. Wilcox, Julie A. Shah	Fast Scheduling of Robot Teams Performing Tasks With Temporospatial Constraints	Yes	[255]	2018	IEEE Transactions on Robotics	20	71	75	1326	1611
Hooker05 Hooker05	John N. Hooker	A Hybrid Method for the Planning and Scheduling	Yes	[308]	2005	Constraints An Int. J.	17	68	11	1348	1729
Thorsteinsson01 Thorsteinsson01	Erlendur S. Thorsteinsson	Branch-and-Check: A Hybrid Framework Integrating Mixed Integer Programming and Constraint Logic Programming	Yes	[589]	2001	CP 2001	15	67	12	600	938

6 Problem Classification

Table 10: Problem Classification Types

Code	Name
JSSP	Job-Shop Scheduling Problem
JSPT	Job-Shop Scheduling Problem with Transportation
PP-MS-MMRCPPSP/max-cal	partially preemptive- multi-skill/mode resource-constrained project scheduling problem with generalized precedence relations and resource calendars
RCPSP	Resource Constrained Project Scheduling Problem
TMS	Transmission Network Maintenance Planning
PMSP	Parallel Machine Scheduling Problem
HFF	Hybrid Flexible Flow-shop
$HFFm tt C_{\max}$	Hybrid Flexible Flowshop with Transportation Times
OSP	Oven Scheduling Problem
PTC	Scheduling Problem with Time Constraints
GCSP	Group Cumulative Scheduling Problem
2BPHFSP	Two-Stage Bin Packing and Hybrid Flow Shop Scheduling Problem
CTW	Cable Tree Wiring Problem
CHSP	Cyclic Hoist Scheduling Problem
CECSP	Continuous Energy-Constrained Scheduling Problem
CuSP	Cumulative Scheduling Problem
SBSFMMAL	Simultaneous Balancing and Scheduling of Flexible Mixed Model Assembly Lines
SMSDP	steel mill slab design problem
KRFP	kernel resource feasibility problem
TCSP	Temporal Constraint Satisfaction Problem
PJSSP	Pre-emptive Job-Shop scheduling Problem
MGAP	Modified Generalized Assignment Problem
EOSP	Earth Observation Scheduling Problem
SCC	Steel-making and continuous casting
OSSP	Open Shop Scheduling Problem
FJS	Fixed Job Scheduling
RCPSPDC	Resource-constrained Project Scheduling Problem with Discounted Cashflow
LSFRP	Liner Shipping Fleet Repositioning Problem
BPCTOP	Bulk Port Cargo Throughput Optimisation Problem

7 Concept Matching

In order to automatically find out properties of the articles, we try to find certain concepts in the pdf versions of the articles. We manually defined an ontology of important concepts to look for, and defined regular expressions that would recognize these concepts in the text. We use the *pdfgrep* command to search for the number of occurrences of certain regular expressions in the files. This often clearly identifies the constraints used in the model. We group the results by number of occurrences of the concept in the text of the work. Note that this is only approximate, as we do include the full pdf file in the search. A concept might only be mentioned in some of the title of citations used in the paper, we do count them in our results, as we were not able to remove the bibliography from the main body of the work.

Overall, if a work is not mentioned as using the concept, the the text does not contain a match to the corresponding regular expression. A fundamental limitation of this approach is that it only really works for text written in the language the regular expressions are designed for (in our case English), and not those written in another language. We could overcome this limitation by defining all concepts in other languages as well, and then using a language flag to identify the language the text is written in.

Note that we only show the first 30 matching entries in each concept category, and list the total number of matches if there are more than 30 matches.

7.1 Concept Type Concepts

Table 11: Works for Concepts of Type Concepts

Type	Keyword	High	Medium	Low
Concepts	Allen's algebra			
Concepts	BOM	SubulanC22 [567]		HoundjiSW19 [318], abs-1902-01193 [14]
Concepts	Benders Decomposition	ForbesHJST24 [218], JuvinHL23a [333], GuoZ23 [271], ZhuSZW23 [668], JuvinHL22 [331], EmdeZD22 [200], ElciOH22 [196], NaderiBZ22a [458], NaderiBZ22 [459], VlKHT21 [625], RoshanaeiBAUB20 [523], Hooker19 [314], TanT18 [574], GombolayWS18 [255], GoldwaserS18 [253], GomesM17 [257], HookerH17 [316], CireCH16 [151], Froger16 [224], HechingH16 [290], TranAB16 [596], BajestaniB15 [43], BajestaniB13 [42], CireCH13 [150], HeinzKB13 [293], TranB12 [597], LombardiM12 [407], LimtanyakulS12 [395], HeinzB12 [292]... (Total: 47)	NaderiRR23 [462], TangB20 [575], Laborie18a [373], TranVNB17 [601], RoshanaeiLAU17 [524], GoldwaserS17 [252], HarjunkoskiMBC14 [281], GuyonLPR12 [273], LombardiMRB10 [410], BeniniLMR08 [89], Hooker05a [309], HookerY02 [317]	PrataAN23 [511], PovedaAA23 [508], AlfieriGPS23 [15], JuvinHHL23 [330], LuoB22 [418], FarsiTM22 [212], Godet21a [248], Mercier-AubinGQ20 [439], Polo-MejiaALB20 [505], QinDCS20 [514], WallaceY20 [629], MengZRZL20 [437], AntunesABD20 [20], MurinR19 [454], FrimodigS19 [223], LaborieRSV18 [374], CappartTSR18 [131], AntunesABD18 [19], BoothNB16 [115], FontaineMH16 [217], Fahimi16 [206], EvenSH15a [205], BurtLPS15 [125], EvenSH15 [204], LipovetzkyBPS14 [396], KoschB14 [355], BlomBPS14 [99], KelarevaTK13 [342], TerekhovDOB12 [582]... (Total: 38)
Concepts	Logic-Based Decomposition	Benders		
Concepts	activity	TardivoDFMP23 [577], PovedaAA23 [508], AalianPG23 [1], PenzDN23 [497], CampeauG22 [129], SvancaraB22 [571], TouatBT22 [594], SubulanC22 [567], BenderWS21 [84], KlankeBYE21 [348], Astrand21 [35], HubnerGSV21 [320], Godet21a [248], ZarandiASC20 [656], CauwelaertDS20 [143], HauderBRPA20 [285], Polo-MejiaALB20 [505], AstrandJZ20 [38], BadicaB120 [39], ZouZ20 [671], ThomasKS20 [588], abs-1902-09244 [284], GeibingerMM19 [238], NattafHKAL19 [468], YounespourAKE19 [647], Caballero19 [127], BadicaBIL19 [40], abs-1911-04766 [237], MurinR19 [454]... (Total: 166)	BonninMNE24 [114], YuraszeckMCCR23 [653], AfsarVPG23 [8], Bit-Monnot23 [96], BoudreaultSLQ22 [118], PopovicCGNC22 [506], Lunardi20 [416], LunardiBLRV20 [415], AntunesABD20 [20], Hooker19 [314], EscobetPQPRA19 [202], Novas19 [476], YangSS19 [646], ShinBBHO18 [552], SchuttS16 [545], BoothNB16 [115], TranWDRFOVB16 [603], VilimLS15 [623], Derrien15 [179], GoelSHFS15 [250], HarjunkoskiMBC14 [281], DoulabiRP14 [190], LombardiM13 [408], LombardiMB13 [409], Clercq12 [170], BonfiettiM12 [112], ChapadosJR11 [146], Wolf11 [640], ZibranR11 [669]... (Total: 50)	PrataAN23 [511], GuoZ23 [271], JuvinHL23a [333], abs-2312-13682 [499], CzerniachowskaWZ23 [160], ShaikhK23 [549], SquillaciPR23 [566], abs-2305-19888 [298], PerezGSL23 [498], PohlAK22 [504], OuelletQ22 [488], MullerMKP22 [453], JuvinHL22 [331], YunusogluY22 [650], HeinzNVH22 [297], abs-2211-14492 [568], HebrardALLCMR22 [287], EtminaniesfahaniGNMS22 [203], Groleaz21 [263], HillTV21 [304], Zahout21 [654], GeibingerMM21 [239], Astrand0F21 [36], ZhangYW21 [661], PandeyS21a [491], QinDCS20 [514], Mercier-AubinGQ20 [439], SacramentoSP20 [528], RoshanaeiBAUB20 [523]... (Total: 92)
Concepts	batch process	LacknerMMWW23 [376], LacknerMMWW21 [375], QinWSLS21 [513], ZarandiASC20 [656], HamC16 [278], NovaraNH16 [475], KoschB14 [355], HarjunkoskiMBC14 [281], Malapert11 [422]	TangB20 [575], NovasH10 [477], Vilim02 [614], SimonisC95 [563]	PrataAN23 [511], IsikYA23 [323], Adelgren2023 [7], YuraszeckMCCR23 [653], MullerMKP22 [453], SvancaraB22 [571], EmdeZD22 [200], LiFJZLL22 [389], ColT22 [161], AbreuN22 [168], GeitzGSSW22 [240], YunusogluY22 [650], OujanaAYB22 [489], LuoB22 [418], FanXG21 [211], ZhangYW21 [661], KlankeBYE21 [348], MengZRZL20 [437], Lunardi20 [416], CauwelaertDS20 [143], EscobetPQPRA19 [202], FahimiOQ18 [207], Ham18a [276], Ham18 [275], LaborieRSV18 [374], Fahimi16 [206], CauwelaertDMS16 [141], Dejemeppe16 [173], Froger16 [224]... (Total: 36)
Concepts	bill of material			Simonis07 [561]
Concepts	blocking constraint	AbreuNP23 [169], RiahiNS018 [519]		IsikYA23 [323], LiFJZLL22 [389], MengZRZL20 [437], Rodriguez07 [522]
Concepts	buffer-capacity		SureshMOK06 [570]	LiFJZLL22 [389], OujanaAYB22 [489], RiahiNS018 [519], BonfiettiLBM14 [109], NovasH14 [479], TerekhovTDB14 [583], ZeballosH05 [657]

Table 11: Works for Concepts of Type Concepts

Type	Keyword	High	Medium	Low
Concepts	cmax	Fatemi-AnarakiTFV23 [213], YuraszeckMCCR23 [653], KameugneFND23 [338], NaderiRR23 [462], ZhuSZW23 [668], JuvinHHL23 [330], AbreuNP23 [169], YuraszeckMC23 [651], abs-2305-19888 [298], IsikYA23 [323], FetgoD22 [215], EtminaniesfahaniGNMS22 [203], AbreuN22 [168], abs-2211-14492 [568], YunusogluY22 [650], JuvinHL22 [331], ZhangBB22 [660], ArmstrongGOS21 [26], Godet21a [248], QinWLS21 [513], Groleaz21 [263], AbohashimaEG21 [2], Polo-MejiaALB20 [505], MejiaY20 [433], MengZRZL20 [437], Lunardi20 [416], QinDCS20 [514], GodetLHS20 [249], YounespourAKE19 [647]... (Total: 65)	Mehdizadeh-Somarin23 [432], MullerMKP22 [453], ArmstrongGOS22 [27], BoudreaultSLQ22 [118], AbreuAPNM21 [167], HamPK21 [277], ArkhipovBL19 [25], Novas19 [476], ParkUJR19 [495], ArbaouiY18 [24], GrimesH15 [260], WangMD15 [632], ZhouGL15 [666], MenciaSV13 [436], MenciaSV12 [435], ZhangLS12 [663], BeckFW11 [66], BartakSR10 [58], MoffittPP05 [444], Muscettola02 [456], SourdN00 [565], ArtiguesR00 [33]	JuvinHL23 [332], Teppan22 [581], ZhangYW21 [661], HananKP21 [279], HubnerGSV21 [320], ZarandiASC20 [656], GokgurHO18 [251], LiuCGM17 [398], BofillCSV17 [103], SialaAH15 [555], SchnellH15 [535], KoschB14 [355], LombardiMB13 [409], SchuttFSW13 [543], Letort13 [384], MalapertCGJLR13 [424], TerekhovDOB12 [582], GuSW12 [269], Schutt11 [536], abs-1009-0347 [541], LiessM08 [390], WatsonB08 [634], AkkerDH07 [608], KeriK07 [344], KhayatLR06 [345], Laborie03 [371], BaptisteP00 [49], FocacciLN00 [216]
Concepts	completion-time	PrataAN23 [511], BonninMNE24 [114], AbreuNP23 [169], MehdiZadeh-Somarin23 [432], ZhuSZW23 [668], Fatemi-AnarakiTFV23 [213], AlfieriGPS23 [15], AbreuPNF23 [3], KameugneFND23 [338], JuvinHL23 [332], PenzDN23 [497], NaderiRR23 [462], EmdeZD22 [200], OuelletQ22 [488], FetgoD22 [215], YuraszeckMPV22 [652], JuvinHL22 [331], AbreuN22 [168], YunusogluY22 [650], SubulanC22 [567], NaderiBZ22 [459], KlankeBYE21 [348], Bedhief21 [74], Groleaz21 [263], Astrand21 [35], ArmstrongGOS21 [26], LunardiBLRV20 [415], QinDCS20 [514], CauwelaertDS20 [143]... (Total: 89)	AfsarVPG23 [8], CzerniachowskaWZ23 [160], abs-2305-19888 [298], LiFJZLL22 [389], ZhangBB22 [660], abs-2211-14492 [568], MullerMKP22 [453], ColT22 [161], Teppan22 [581], NaderiBZ22a [458], TouatBT22 [594], OujanaAYB22 [489], HeinzNVH22 [297], FanXG21 [211], GeibingerMM21 [239], QinWLS21 [513], AbreuAPNM21 [167], HanenKP21 [279], NattafM20 [469], Mercier-AubinGQ20 [439], Polo-MejiaALB20 [505], abs-1902-09244 [284], BogaerdtW19 [609], GeibingerMM19 [238], ParkUJR19 [495], YangSS19 [646], abs-1911-04766 [237], MalapertN19 [425], OuelletQ18 [487]... (Total: 60)	abs-2402-00459 [471], TasselGS23 [578], MontemanniD23a [448], AkramNHRSA23 [13], IsikYA23 [323], JuvinHHL23 [330], Adelgren2023 [7], abs-2306-05747 [579], PerezGSL23 [498], FarsiTM22 [212], PopovicCGNC22 [506], CampeauG22 [129], PohlAK22 [504], GeitzGSSW22 [240], ZhangJZL22 [659], WinterMMW22 [637], ArmstrongGOS22 [27], HubnerGSV21 [320], Zahout21 [654], VlkHT21 [625], HamPK21 [277], Godet21a [248], PandeyS21a [491], WessenCS20 [635], MengZRZL20 [437], GodetLHS20 [249], SacramentoSP20 [528], ZouZ20 [671], AstrandJZ20 [38]... (Total: 109)
Concepts	continuous-process	HarjunkoskiMBC14 [281]		FarsiTM22 [212], Dejemeppe16 [173], GaySS14 [234], Bartak02 [54], SimonisC95 [563]
Concepts	distributed	PrataAN23 [511], GuoZ23 [271], NaderiRR23 [462], Zahout21 [654], ZarandiASC20 [656], MengZRZL20 [437], He0GLW18 [286], GombolayWS18 [255], TranPZLDB18 [599], RoshanaeiLAU17 [524], BridiLBBM16 [122], BridiBLMB16 [121], ZhouGL15 [666], TerekhovTDB14 [583], BonfiettiLM14 [111], BartakS11 [57], BartakSR10 [58], LombardiMRB10 [410], WuBB09 [645], RuggieroBBMA09 [527], BeckW07 [73], HoeveGSL07 [611], RossiTHP07 [526], SureshMOK06 [570], GomesHS06 [256], Geske05 [243], BeckW04 [71], Beck99 [62], LammaMM97 [379]	AbreuPNF23 [3], ShaikhK23 [549], AbreuNP23 [169], IsikYA23 [323], JungblutK22 [329], NaderiBZ22a [458], AbreuN22 [168], OujanaAYB22 [489], YuraszeckMPV22 [652], ElciOH22 [196], Godet21a [248], AbreuAPNM21 [167], MokhtarzadehTNF20 [445], RoshanaeiBAUB20 [523], ZouZ20 [671], Caballero19 [127], NishikawaSTT19 [474], BorghesiBLMB18 [116], ZhangW18 [662], GomesM17 [257], BlomPS16 [100], ZarandiKS16 [655], GrimesH15 [260], HarjunkoskiMBC14 [281], BlomBPS14 [99], AlesioNBG14 [182], LombardiMB13 [409], TranTDB13 [600], BegB13 [75]... (Total: 41)	ForbesHJST24 [218], Bit-Monnot23 [96], MontemanniD23 [449], Adelgren2023 [7], abs-2305-19888 [298], SquillaciPR23 [566], Fatemi-AnarakiTFV23 [213], YuraszeckMC23 [651], ZhuSZW23 [668], KimCMLLP23 [347], AlfieriGPS23 [15], GurPAE23 [272], JuvinHL23a [333], AkramNHRSA23 [13], abs-2211-14492 [568], EmdeZD22 [200], NaderiBZ22 [459], TouatBT22 [594], Teppan22 [581], BoudreaultSLQ22 [118], ColT22 [161], LiFJZLL22 [389], FarsiTM22 [212], WinterMMW22 [637], ZhangBB22 [660], HeinzNVH22 [297], JuvinHL22 [331], Astrand21 [35], FanXG21 [211]... (Total: 134)

Table 11: Works for Concepts of Type Concepts

Type	Keyword	High	Medium	Low
Concepts	due-date	AfsarVPG23 [8], OujanaAYB22 [489], ColT22 [161], NaderiBZ22 [459], AntuoriHHEN21 [22], FanXG21 [211], Groleaz21 [263], AntuoriHHEN20 [21], ZarandiASC20 [656], TangB20 [575], HauderBRPA20 [285], Mercier-AubinGQ20 [439], Lunardi20 [416], AntunesABD20 [20], HoundjiSW19 [318], Novas19 [476], abs-1911-04766 [237], abs-1902-09244 [284], GoldwaserS18 [253], Tesch18 [585], GoldwaserS17 [252], Fahimi16 [206], NovaraNH16 [475], Dejemeppe16 [173], BajestaniB15 [43], DoulabiRP14 [190], HarjunkoskiMBC14 [281], KoschB14 [355], HoundjiSWD14 [319]... (Total: 58)	PrataAN23 [511], IsikYA23 [323], LacknerMMWW23 [376], NaderiRR23 [462], YunusogluY22 [650], abs-2211-14492 [568], WinterMMW22 [637], Godet21a [248], LacknerMMWW21 [375], GeibingerMM21 [239], GroleazNS20a [264], GeibingerMM19 [238], AntunesABD18 [19], FahimiOQ18 [207], ZarandiKS16 [655], CatusseCBL16 [140], GrimesH15 [260], GrimesIOS14 [262], HeinzSB13 [296], CobanH11 [154], GrimesH11 [259], Malapert11 [422], LombardiM10a [404], Lombardi10 [400], MakMS10 [421], SchuttW10 [546], Davenport10 [165], ThiruvadyBME09 [586], abs-0907-0939 [501]... (Total: 45)	abs-2402-00459 [471], AbreuPNF23 [3], YuraszeckMC23 [651], JuvinHHL23 [330], KimCMLLP23 [347], TouatBT22 [594], YuraszeckMPV22 [652], ElciOH22 [196], ZhangJZL22 [659], SubulanC22 [567], MullerMKP22 [453], Astrand21 [35], HubnerGSV21 [320], VlkHT21 [625], KlankeBYE21 [348], Bedhief21 [74], KovacsTKSG21 [363], Zahout21 [654], HanenKP21 [279], MejiaY20 [433], Polo-MejiaALB20 [505], GroleazNS20 [265], LunardiBLRV20 [415], AstrandJZ20 [38], Hooker19 [314], ParkUJR19 [495], EscobetPQPRA19 [202], GokgurHO18 [251], GedikKEK18 [235]... (Total: 85)
Concepts	earliness	PrataAN23 [511], KimCMLLP23 [347], PohlAK22 [504], TouatBT22 [594], Groleaz21 [263], ZarandiASC20 [656], HauderBRPA20 [285], abs-1902-09244 [284], LaborieRSV18 [374], ZarandiKS16 [655], Dejemeppe16 [173], GrimesH15 [260], LombardiM12 [407], KelbelH11 [343], GrimesH11 [259], MonetteDH09 [447], Laborie09 [372], KeriK07 [344], BeckR03 [70], DannaP03 [163]	FarsiTM22 [212], AntunesABD20 [20], MengZRZL20 [437], TerekhovDOB12 [582], KovacsB11 [358], Davenport10 [165], Baptiste02 [44]	abs-2402-00459 [471], NaderiRR23 [462], AbreuNP23 [169], PenzDN23 [497], AlfieriGPS23 [15], LacknerMMWW23 [376], AbreuPNF23 [3], IsikYA23 [323], EtminaniesfahaniGNMS22 [203], YunusogluY22 [650], LacknerMMWW21 [375], FanXG21 [211], Polo-MejiaALB20 [505], Mercier-AubinGQ20 [439], ColT19 [157], AntunesABD18 [19], ZhangW18 [662], German18 [242], GokgurHO18 [251], KuB16 [367], NovaraNH16 [475], Siala15a [554], VilimLS15 [623], LimBTBB15 [393], Siala15 [553], SialaAH15 [555], HarjunkoskiMBC14 [281], BajestaniB13 [42], HeinzB12 [292]... (Total: 45)
Concepts	flow-shop	BonninMNE24 [114], PrataAN23 [511], NaderiRR23 [462], AlfieriGPS23 [15], IsikYA23 [323], AbreuPNF23 [3], AbreuNP23 [169], CzerniachowskaWZ23 [160], JuvinHL23 [332], ArmstrongGOS22 [27], AbreuN22 [168], LiFJZLL22 [389], OujanaAYB22 [489], ColT22 [161], ZhangJZL22 [659], Astrand21 [35], QinWSLS21 [513], ArmstrongGOS21 [26], Bedhief21 [74], Groleaz21 [263], AbreuAPNM21 [167], MengZRZL20 [437], AstrandJZ20 [38], ZarandiASC20 [656], Lunardi20 [416], Novas19 [476], ParkUJR19 [495], ZhangW18 [662], ZhouGL15 [666]... (Total: 38)	JuvinHL23a [333], Mehdizadeh-Somarin23 [432], NaderiBZ22 [459], YuraszeckMPV22 [652], JuvinHL22 [331], KoehlerBFFHPSSS21 [350], Godet21a [248], FanXG21 [211], TangB20 [575], HauderBRPA20 [285], abs-1902-09244 [284], GombolayWS18 [255], LaborieRSV18 [374], Fahimi16 [206], Dejemeppe16 [173], GuyonLPR12 [273], GrimesH11 [259], KovacsB11 [358], BartakSR10 [58], JainM99 [324], AggounB93 [9]	TasselGS23 [578], YuraszeckMCCR23 [653], abs-2305-19888 [298], JuvinHHL23 [330], AfsarVPG23 [8], AalianPG23 [1], abs-2306-05747 [579], abs-2211-14492 [568], TouatBT22 [594], Teppan22 [581], NaderiBZ22a [458], HeinzNVH22 [297], HamPK21 [277], LacknerMMWW21 [375], HillTV21 [304], Zahout21 [654], abs-2102-08778 [156], KovacsTKSG21 [363], PandeyS21a [491], WallaceY20 [629], LunardiBLRV20 [415], SacramentoSP20 [528], WikarekS19 [636], TanT18 [574], RiahiNS018 [519], GokgurHO18 [251], GoldwaserS18 [253], HookerH17 [316], Nattafl16 [463]... (Total: 63)
Concepts	flow-time	BonninMNE24 [114], PenzDN23 [497], EmdeZD22 [200], YuraszeckMPV22 [652], FanXG21 [211], NattaFM20 [469], ZarandiASC20 [656], MalapertN19 [425], ZhangW18 [662], TerekhovTDB14 [583], TranTDB13 [600], WuBB09 [645], Baptiste02 [44]	PrataAN23 [511], AlfieriGPS23 [15], YunusogluY22 [650], Malapert11 [422], BeckW07 [73]	YuraszeckMCCR23 [653], TasselGS23 [578], abs-2306-05747 [579], YuraszeckMC23 [651], LiFJZLL22 [389], AbreuN22 [168], KoehlerBFFHPSSS21 [350], MengZRZL20 [437], Novas19 [476], ParkUJR19 [495], BajestaniB15 [43], MenciaSV13 [436], MenciaSV12 [435], EdisO11 [192], KovacsB11 [358], QuirogaZH05 [516], BeckPS03 [69], BeckR03 [70]

Table 11: Works for Concepts of Type Concepts

Type	Keyword	High	Medium	Low
Concepts	inventory	GuoZ23 [271], SubulanC22 [567], Astrand21 [35], German18 [242], GilesH16 [245], GoelSHFS15 [250], HarjunkoskiMBC14 [281], SerraNM12 [548], TerekhovDOB12 [582], LopesCSM10 [411], Jans09 [326], RossiTHP07 [526], Timpe02 [590], Beck99 [62], BeckDF97 [65]	Adelgren2023 [7], EmdeZD22 [200], ZarandiASC20 [656], Novas19 [476], Hooker19 [314], Ham18a [276], BajestaniB13 [42], MakMS10 [421], LauLN08 [380], MouraSCL08a [451], GarganiR07 [228], DavenportKRSH07 [166], BeckF00 [68], Simonis99 [560], BlazewiczDP96 [126], Simonis95a [558]	PrataAN23 [511], PerezGSL23 [498], abs-2312-13682 [499], ZhuSZW23 [668], AlfieriGPS23 [15], GurPAE23 [272], PohlAK22 [504], YunusogluY22 [650], AbreuN22 [168], Groleaz21 [263], KovacsTKSG21 [363], HubnerGSV21 [320], HauderBRPA20 [285], GroleazNS20a [264], GroleazNS20 [265], YounespourAKE19 [647], HoundjiSW19 [318], abs-1902-09244 [284], WikarekS19 [636], Ham18 [275], LaborieRSV18 [374], ShinBBHO18 [552], GomesM17 [257], Nattaf16 [463], SchuttS16 [545], Froger16 [224], SimoninAHL15 [557], TerekhovTDB14 [583], HoundjiSWD14 [319]... (Total: 51)
Concepts	job	abs-2402-00459 [471], PrataAN23 [511], ForbesHJST24 [218], AbreuPNF23 [3], JuviniHHL23 [330], PenzDN23 [497], AlfieriGPS23 [15], YuraszeckMC23 [651], AfsarVPG23 [8], LacknerMMWW23 [376], Bit-Monnot23 [96], ZhuSZW23 [668], Fatemi-AnarakiTFV23 [213], Mehdizadeh-Somarin23 [432], KimCMLLP23 [347], AbreuNP23 [169], IsikYA23 [323], WangB23 [631], CzerniachowskaWZ23 [160], abs-2306-05747 [579], NaderiRR23 [462], JuviniHL23 [332], TasselGS23 [578], JuviniHL23a [333], YuraszeckMCCR23 [653], EtminaniesfahaniGNMS22 [203], TouatBT22 [594], MullerMKP22 [453], ArmstrongGOS22 [27]... (Total: 264)	BonninMNE24 [114], ShaikhK23 [549], abs-2305-19888 [298], EfthymiouY23 [195], Adelgren2023 [7], LuoB22 [418], HeinzNVH22 [297], BourreauGGLT22 [119], HanenKP21 [279], Lemos21 [383], Mercier-AubinGQ20 [439], MokhtarzadehTNF20 [445], RoshanaeiBAUB20 [523], ArkhipovBL19 [25], EscobetPQPRA19 [202], Tom19 [591], GurEA19 [672], German18 [242], PourDERB18 [507], NattafAL17 [465], CappartS17 [130], RoshanaeiLAU17 [524], ZarandiKS16 [655], TranWDRFOVB16 [603], Madi-WambaB16 [419], CatusseCBL16 [140], LetortCB15 [387], Derrien15 [179], ZhouGL15 [666]... (Total: 59)	PovedaAA23 [508], GuoZ23 [271], PohlAK22 [504], CampeauG22 [129], KlankeBYE21 [348], HubnerGSV21 [320], AntuoriHHEN21 [22], BenderWS21 [84], QinDCS20 [514], Polo-MejiaALB20 [505], WessenCS20 [635], AntuoriHHEN20 [21], FrimodigS19 [223], HoYCLLC18 [305], ShinBBHO18 [552], CauwelaertLS18 [142], TangLWSK18 [576], BaptisteB18 [46], TranVNB17 [601], NovaraNH16 [475], HechingH16 [290], WangMD15 [632], BurtLPS15 [125], BartakV15 [59], LimBTBB15 [393], LombardiBM15 [401], MelgarejoLS15 [11], DerrienPZ14 [181], KameugneFSN14 [340]... (Total: 81)
Concepts	job-shop	abs-2402-00459 [471], PrataAN23 [511], YuraszeckMCCR23 [653], abs-2306-05747 [579], JuviniHL23a [333], JuviniHHL23 [330], AfsarVPG23 [8], AbreuNP23 [169], Mehdizadeh-Somarin23 [432], Fatemi-AnarakiTFV23 [213], ZhuSZW23 [668], KimCMLLP23 [347], CzerniachowskaWZ23 [160], Bit-Monnot23 [96], NaderiRR23 [462], TasselGS23 [578], Teppan22 [581], NaderiBZ22a [458], OujanaAYB22 [489], LiFJZLL22 [389], ColT22 [161], MullerMKP22 [453], ZhangBB22 [660], abs-2211-14492 [568], YuraszeckMPV22 [652], GeitzGSSW22 [240], JuviniHL22 [331], Astrand21 [35], KovacsTKSG21 [363]... (Total: 131)	AbreuPNF23 [3], PenzDN23 [497], EfthymiouY23 [195], IsikYA23 [323], AlfieriGPS23 [15], NaderiBZ22 [459], EtminaniesfahaniGNMS22 [203], TouatBT22 [594], YunusogluY22 [650], AbreuN22 [168], LuoB22 [418], QinWSLS21 [513], ArmstrongGOS21 [26], KoehlerBFFHPSSS21 [350], Godet21a [248], AstrandOF21 [36], MejiaY20 [433], GroleazNS20 [265], SacramentoSP20 [528], ArkhipovBL19 [25], WikarekS19 [636], EscobetPQPRA19 [202], GokgurHO18 [251], German18 [242], MossigeGSMC17 [450], CappartS17 [130], Derrien15 [179], Kameugne14 [335], BonfiettiLM14 [111]... (Total: 54)	ForbesHJST24 [218], BonniniMNE24 [114], Adelgren2023 [7], ShaikhK23 [549], PovedaAA23 [508], YuraszeckMC23 [651], GuoZ23 [271], LacknerMMWW23 [376], JuviniHL23 [332], EmdeZD22 [200], HanenKP21 [279], Lemos21 [383], KlankeBYE21 [348], AntuoriHHEN21 [22], Zahout21 [654], HauderBRPA20 [285], AntuoriHHEN20 [21], RoshanaeiBAUB20 [523], BenediktMH20 [86], WessenCS20 [635], Mercier-AubinGQ20 [439], WallaceY20 [629], NattafDYW19 [467], BogaerdW19 [609], abs-1902-09244 [284], Tom19 [591], Hooker19 [314], GurEA19 [672], FrimodigS19 [223]... (Total: 103)
Concepts	lateness	Groleaz21 [263], FahimiOQ18 [207], Fahimi16 [206], Dejemeppe16 [173], KoschB14 [355], Malapert11 [422], BartakSR10 [58], Geske05 [243], Baptiste02 [44], ArtiguesR00 [33], BlazewiczDP96 [126]	PrataAN23 [511], PohlAK22 [504], ZarandiASC20 [656], AntunesABD20 [20], ZhangW18 [662], HarjunkoskiMBC14 [281], MilanoW09 [443], AkkerDH07 [608], MilanoW06 [442], Sadykov04 [529]	LacknerMMWW23 [376], YunusogluY22 [650], NaderiBZ22 [459], GeitzGSSW22 [240], ColT22 [161], ZhangBB22 [660], LacknerMMWW21 [375], Godet21a [248], KoehlerBFFHPSSS21 [350], HanenKP21 [279], QinWSLS21 [513], Lunardi20 [416], Novas19 [476], ArkhipovBL19 [25], ParkUJR19 [495], AntunesABD18 [19], Tesch18 [585], GrimesH15 [260], BartakV15 [59], MenciaSV13 [436], MenciaSV12 [435], TerekhovDOB12 [582], EdisO11 [192], ChenGPSH10 [147], NovasH10 [477], WuBB09 [645], SadykovW06 [530], Bartak02 [54], JainM99 [324]

Table 11: Works for Concepts of Type Concepts

Type	Keyword	High	Medium	Low
Concepts	lazy clause generation	Caballero19 [127], KreterSSZ18 [366], KreterSS17 [365], Siala15 [553], Siala15a [554], KreterSS15 [364], SchuttFS13 [539], SchuttFSW13 [543], SchuttFS13a [538], KelarevaTK13 [342], Schutt11 [536], SchuttFSW11 [542], abs-1009-0347 [541], SchuttFSW09 [540], OhrimenkoSC09 [485]	PovedaAA23 [508], Bit-Monnot23 [96], BoudreaultSLQ22 [118], GeitzGSSW22 [240], OuelletQ22 [488], FahimiOQ18 [207], SchuttS16 [545], SzerediS16 [572], SchnellH15 [535], SialaAH15 [555], BofillEGPSV14 [104], GuSS13 [267], SchuttCSW12 [537]	AbreuPNF23 [3], TardivoDFMP23 [577], WangB23 [631], KameugneFND23 [338], FetgoD22 [215], EtmianiesfahaniGNMS22 [203], Godet21a [248], HillTV21 [304], GeibingerMM21 [239], GodetLHS20 [249], WallaceY20 [629], Mercier-AubinGQ20 [439], YangSS19 [646], BaptisteB18 [46], GoldwaserS18 [253], YoungFS17 [648], BofillCSV17 [103], GoldwaserS17 [252], AmadiniGM16 [17], PesantRR15 [500], GuSW12 [269], LombardiM12 [407], GrimesH11 [259], Lombardi10 [400], SchuttW10 [546], MilanoW09 [443]
Concepts	machine	abs-2402-00459 [471], BonninMNE24 [114], PrataAN23 [511], Fatemi-AnarakiTFV23 [213], PenzDN23 [497], YuraszcekMCCR23 [653], JuvinHL23a [333], ZhuSZW23 [668], AalianPG23 [1], AbreuPNF23 [3], JuvinHHL23 [330], abs-2312-13682 [499], LacknerMMWW23 [376], AlfieriGPS23 [15], AfsarVPG23 [8], KimCMLLP23 [347], IsikYA23 [323], CzerniachowskaWZ23 [160], AbreuNP23 [169], Adलगren2023 [7], NaderiRR23 [462], TasselGS23 [578], Mehdizadeh-Somarin23 [432], JuvinHL23 [332], GuoZ23 [271], PerezGSL23 [498], EfthymiouY23 [195], abs-2306-05747 [579], YuraszcekMC23 [651]... (Total: 260)	ForbesHJST24 [218], AkramNHRSA23 [13], GurPAE23 [272], Bit-Monnot23 [96], EtmianiesfahaniGNMS22 [203], LuoB22 [418], ElciOH22 [196], HillTV21 [304], KlankeBYE21 [348], Lemos21 [383], AbohashimaEG21 [2], Polo-MejiaALB20 [505], RoshanaeiBAUB20 [523], AntuoriHHEN20 [21], BehrensLM19 [76], GoldwaserS18 [253], BaptisteB18 [46], He0GLW18 [286], Ham18 [275], ShinBBHO18 [552], MusliuSS18 [457], FahimiOQ18 [207], GoldwaserS17 [252], CohenHB17 [155], KreterSS17 [365], Pralet17 [509], SchuttS16 [545], ZarandiKS16 [655], BlomPS16 [100]... (Total: 69)	ShaikhK23 [549], KameugneFND23 [338], MontemanniD23 [449], BoudreaultSLQ22 [118], PopovicCGNC22 [506], SubulanC22 [567], PohlAK22 [504], GeibingerMM21 [239], ArtiguesHQT21 [32], WallaceY20 [629], BarzegaranZP20 [61], Mercier-AubinGQ20 [439], WangB20 [630], ArkhipovBL19 [25], YounespourAKE19 [647], YangSS19 [646], NattafHKAL19 [468], BadicaBIL19 [40], NishikawaSTT19 [474], Tom19 [591], AntunesABD18 [19], KreterSSZ18 [366], HoYCLLC18 [305], PourDERB18 [507], Laborie18a [373], CauwelaertLS18 [142], TranVNB17a [602], KletzanderM17 [349], LiuCGM17 [398]... (Total: 120)
Concepts	make to order			OujanaAYB22 [489], DavenportKRSH07 [166], Simonis07 [561]
Concepts	make to stock			HarjunkskiMBC14 [281]
Concepts	make-span	PrataAN23 [511], Mehdizadeh-Somarin23 [432], AbreuNP23 [169], EfthymiouY23 [195], PovedaAA23 [508], AfsarVPG23 [8], JuvinHL23a [333], abs-2306-05747 [579], AalianPG23 [1], CzerniachowskaWZ23 [160], AbreuPNF23 [3], JuvinHHL23 [330], YuraszcekMC23 [651], ZhuSZW23 [668], IsikYA23 [323], JuvinHL23 [332], AlfieriGPS23 [15], abs-2305-19888 [298], NaderiRR23 [462], TasselGS23 [578], Bit-Monnot23 [96], LacknerMMWW23 [376], AbreuN22 [168], YunusogluY22 [650], ZhangBB22 [660], HeinzNVH22 [297], JuvinHL22 [331], GeitzGSSW22 [240], BoudreaultSLQ22 [118]... (Total: 194)	BonninMNE24 [114], KameugneFND23 [338], YuraszcekMCCR23 [653], abs-2312-13682 [499], Adलगren2023 [7], PerezGSL23 [498], PenzDN23 [497], MullerMKP22 [453], SvancaraB22 [571], ZhangJZL22 [659], abs-2211-14492 [568], YuraszcekMPV22 [652], OujanaAYB22 [489], LiFJZLL22 [389], PandeyS21a [491], FanXG21 [211], QinDCS20 [514], NattafDYW19 [467], AstrandJZ18 [37], Ham18a [276], YoungFS17 [648], RoshanaeiLAU17 [524], KreterSS17 [365], GingrasQ16 [246], BonfiettiZLM16 [113], HamC16 [278], KuB16 [367], SialaAH15 [555], DejemeppeCS15 [174]... (Total: 58)	LaborieRSV18 [374], Froger16 [224]
Concepts	manpower	NovaraNH16 [475]		BourreauGGLT22 [119], BadicaBI20 [39], MokhtarzadehTNF20 [445], HauderBRPA20 [285], WikarekS19 [636], BaptisteB18 [46], MusliuSS18 [457], SchuttS16 [545], HechingH16 [290], GayHS15a [233], GaySS14 [234], HarjunkskiMBC14 [281], Clercq12 [170], GuyonLPR12 [273], LombardiM12 [407], SimonisH11 [564], Menana11 [434], Vilim11 [620], NovasH10 [477], ChenGPSH10 [147], Simonis99 [560], NuijtenP98 [481], SimonisC95 [563], Simonis95a [558], Puget95 [512]

Table 11: Works for Concepts of Type Concepts

Type	Keyword	High	Medium	Low
Concepts	multi-agent	SvancaraB22 [571], Zahout21 [654], ZarandiASC20 [656], BehrensLM19 [76], He0GLW18 [286], GombolayWS18 [255], HoeveGSL07 [611]	Lemos21 [383], MokhtarzadehTNF20 [445], abs-1901-07914 [77], TranVNB17 [601], LimHTB16 [392], BartakSR10 [58], BocewiczBB09 [101]	abs-2402-00459 [471], Mehdizadeh-Somarin23 [432], SquillaciPR23 [566], ZhuSZW23 [668], Fatemi-AnarakiTFV23 [213], AbreuAPNM21 [167], ZhangYW21 [661], WessenCS20 [635], MejiaY20 [433], WikarekS19 [636], BadicaBIL19 [40], ZhangW18 [662], HookerH17 [316], LimBTBB15 [393], KoschB14 [355], BartakS11 [57], Jans09 [326], GomesHS06 [256], AbrilSB05 [4], Beck99 [62], BeckF98 [67], Wallace96 [627], Pape94 [492], ColT22 [161], TouatBT22 [594], FanXG21 [211], Bedhief21 [74], Lunardi20 [416], MengZRZL20 [437], ParkUJR19 [495], NattafALR16 [466], TerekhovTDB14 [583], LombardiMRB10 [410], LiW08 [388], MonetteDD07 [446], BeckW07 [73], Baptiste02 [44], ArtiguesR00 [33]
Concepts	no preempt			
Concepts	no-wait	PrataAN23 [511], Fatemi-AnarakiTFV23 [213], IsikYA23 [323], AlfieriGPS23 [15], NaderiRR23 [462], AbreuNP23 [169], HubnerGSV21 [320], VlkHT21 [625], ZarandiASC20 [656], Novas19 [476], GrimesH15 [260], GrimesH11 [259], GrimesH10 [258], AkkerDH07 [608]	AbreuN22 [168], AbreuAPNM21 [167], MengZRZL20 [437], MokhtarzadehTNF20 [445], MejiaY20 [433], Dejemeppe16 [173], Malapert11 [422]	AbreuPNF23 [3], YuraszeckMPV22 [652], BourreauGGLT22 [119], ArmstrongGOS22 [27], EmdeZD22 [200], LiFJZLL22 [389], FarsiTM22 [212], MullerMKP22 [453], NaderiBZ22 [459], Bedhief21 [74], HauderBRPA20 [285], abs-1902-09244 [284], RiahiNS018 [519], ZhangW18 [662], ArbaouiY18 [24], WangMD15 [632], NovasH12 [478], HermenierDL11 [302], NovasH10 [477], LammaMM97 [379], BrusoniCLMMT96 [124], BlazewiczDP96 [126]
Concepts	open-shop	PrataAN23 [511], Bit-Monnot23 [96], AbreuPNF23 [3], AbreuNP23 [169], NaderiRR23 [462], YuraszeckMPV22 [652], AbreuN22 [168], AbreuAPNM21 [167], Groleaz21 [263], ZarandiASC20 [656], MejiaY20 [433], Lunardi20 [416], FahimiOQ18 [207], Fahimi16 [206], GrimesH15 [260], Siala15a [554], Siala15 [553], MalapertCGJLR13 [424], MalapertCGJLR12 [423], Malapert11 [422], GrimesHM09 [261], OhrimenkoSC09 [485], MonetteDD07 [446], Elkhyari03 [197], LorigeonBB02 [413], Baptiste02 [44], FocacciLN00 [216]	ZhuSZW23 [668], Godet21a [248], Astrand21 [35], SacramentoSP20 [528], MengZRZL20 [437], Dejemeppe16 [173], TerekhovDOB12 [582], Schutt11 [536], GrimesH10 [258], Vilim05 [617], Demassey03 [176], JainM99 [324]	BonninMNE24 [114], YuraszeckMCCR23 [653], YuraszeckMC23 [651], KimCMLLP23 [347], ShaikhK23 [549], AfsarVPG23 [8], NaderiBZ22 [459], EmdeZD22 [200], OujanaAYB22 [489], ColT22 [161], EtmianiesfahaniGNMS22 [203], Astrand0F21 [36], abs-2102-08778 [156], AstrandJZ20 [38], ParkUJR19 [495], GombolayWS18 [255], HookerH17 [316], SialaAH15 [555], Derrien15 [179], BonfiettiLM14 [111], AlesioNBG14 [182], BillautHL12 [95], GrimesH11 [259], SchuttFSW11 [542], ChenGPSH10 [147], BartakSR10 [58], SchuttFSW09 [540], ThiruvadyBME09 [586], LiW08 [388]... (Total: 37)
Concepts	order	PrataAN23 [511], BonninMNE24 [114], abs-2402-00459 [471], ZhuSZW23 [668], GuoZ23 [271], EfthymiouY23 [195], AbreuNP23 [169], Fatemi-AnarakiTFV23 [213], Adelgren2023 [7], TasselGS23 [578], abs-2306-05747 [579], JuvinHL23 [332], LacknerMMWW23 [376], PerezGSL23 [498], IsikYA23 [323], PenzDN23 [497], PovedaAA23 [508], JuvinHL23a [333], AlfieriGPS23 [15], abs-2312-13682 [499], CzerniachowskaWZ23 [160], AalianPG23 [1], Bit-Monnot23 [96], AbreuPNF23 [3], WangB23 [631], KameugneFND23 [338], JuvinHHL23 [330], SquillaciPR23 [566], YuraszeckMCCR23 [653]... (Total: 400)	ForbesHJST24 [218], MontemanniD23a [448], NaderiRR23 [462], TardivoDFMP23 [577], YuraszeckMC23 [651], GurPAE23 [272], ShaikhK23 [549], abs-2305-19888 [298], SvancaraB22 [571], ZhangBB22 [660], ArmstrongGOS22 [27], WinterMMW22 [637], ElciOH22 [196], TouatBT22 [594], OuelletQ22 [488], HeinzNVH22 [297], JungblutK22 [329], BenderWS21 [84], GeibingerMM21 [239], HillTV21 [304], abs-2102-08778 [156], QinDCS20 [514], WallaceY20 [629], AntunesABD20 [20], ZouZ20 [671], TangB20 [575], FrohnerTR19 [225], YounespourAKE19 [647], ColT19 [157]... (Total: 109)	Mehdizadeh-Somarin23 [432], MontemanniD23 [449], AkramNHRSA23 [13], JuvinHL22 [331], NaderiBZ22a [458], ZhangJZL22 [659], ZhangYW21 [661], AbohashimaEG21 [2], MokhtarzadehTNF20 [445], RoshanaeiBAUB20 [523], abs-1902-01193 [14], GalleguillosKSB19 [227], KucukY19 [370], ArbaouiY18 [24], BenediktSMVH18 [87], He0GLW18 [286], TranVNB17a [602], Hooker17 [313], HechingH16 [290], BridiLBBM16 [122], CireCH16 [151], Bonfietti16 [106], SzerediS16 [572], HurleyOS16 [321], Derrien15 [179], GayHS15a [233], ThiruvadyWGS14 [587], DoulabiRP14 [190], Kameugne14 [335]... (Total: 64)

Table 11: Works for Concepts of Type Concepts

Type	Keyword	High	Medium	Low
Concepts	precedence	BonninMNE24 [114], abs-2402-00459 [471], PovedaAA23 [508], YuraszeckMCCR23 [653], AlfieriGPS23 [15], JuvinHHL23 [330], NaderiRR23 [462], ZhuSZW23 [668], IsikYA23 [323], FetgoD22 [215], PohlAK22 [504], CampeauG22 [129], YunusogluY22 [650], ZhangBB22 [660], EtminaniesfahaniGNMS22 [203], NaderiBZ22a [458], BoudreaultSLQ22 [118], GeibingerMM21 [239], HanenKP21 [279], AstrandOF21 [36], Astrand21 [35], HillTV21 [304], KoehlerBFFHPSSS21 [350], FanXG21 [211], HubnerGSV21 [320], ZhangYW21 [661], Godet21a [248], HamPK21 [277], ArmstrongGOS21 [26]... (Total: 173)	KameugneFND23 [338], JuvinHL23a [333], TardivoDFMP23 [577], Bit-Monnot23 [96], OujanaAYB22 [489], SubulanC22 [567], ColT22 [161], VlKHT21 [625], AntuoriHHEN21 [22], Zahout21 [654], WessenCS20 [635], MokhtarzadehTNF20 [445], QinDCS20 [514], GeibingerMM19 [238], Novas19 [476], abs-1911-04766 [237], BogaerdtW19 [609], MurinR19 [454], ColT19 [157], Ham18 [275], KameugneFGOQ18 [337], TanT18 [574], MossigeGSMC17 [450], Madi-WambaLOBM17 [420], Madi-WambaB16 [419], KuB16 [367], AmadiniGM16 [17], VilimLS15 [623], LombardiBM15 [401]... (Total: 76)	PrataAN23 [511], JuvinHL23 [332], AfsarVPG23 [8], Mehdizadeh-Somarin23 [432], abs-2306-05747 [579], YuraszeckMC23 [651], KimCMLLP23 [347], TasselGS23 [578], abs-2305-19888 [298], MullerMKP22 [453], JuvinHL22 [331], EmdeZD22 [200], BourreauGGLT22 [119], ZhangJZL22 [659], GeitzGSSW22 [240], TouatBT22 [594], WinterMMW22 [637], abs-2211-14492 [568], HeinzNVH22 [297], Lemos21 [383], KovacsTKSG21 [363], PandeyS21a [491], AbreuAPNM21 [167], AntunesABD20 [20], GroleazNS20a [264], TangB20 [575], OuelletQ18 [487], DemirovicS18 [178], BaptisteB18 [46]... (Total: 105)
Concepts	preempt	BonninMNE24 [114], JuvinHL23a [333], JuvinHHL23 [330], PovedaAA23 [508], SubulanC22 [567], JuvinHL22 [331], Groleaz21 [263], HanenKP21 [279], ArtiguesHQT21 [32], Godet21a [248], ZarandiASC20 [656], Polo-MejiaALB20 [505], NattafHKAL19 [468], BaptisteB18 [46], FahimiOQ18 [207], GokgurHO18 [251], Dejemepe16 [173], ZarandiKS16 [655], Fahimi16 [206], NattafALR16 [466], EvenSH15 [204], EvenSH15a [205], AlesioNBG14 [182], LombardiMB13 [409], MenciaSV12 [435], LombardiM12 [407], BeldiceanuCDP11 [80], KovacsB11 [358], Schutt11 [536]... (Total: 41)	PrataAN23 [511], Adelgren2023 [7], abs-2305-19888 [298], AbreuPNF23 [3], FetgoD22 [215], HeinzNVH22 [297], OuelletQ22 [488], Astrand21 [35], Zahout21 [654], SacramentoSP20 [528], Mercier-AubinGQ20 [439], Lunardi20 [416], LunardiBLRV20 [415], Caballero19 [127], ArkhipovBL19 [25], GombolayWS18 [255], YoungFS17 [648], SchnellH15 [535], NattafAL15 [464], SimoninAHL15 [557], TerekhovTDB14 [583], OzturkTHO13 [490], MenciaSV13 [436], BajestaniB13 [42], SimoninAHL12 [556], GuyonLPR12 [273], SchuttFSW11 [542], Malapert11 [422], LombardiMRB10 [410]... (Total: 39)	Mehdizadeh-Somarin23 [432], AalianPG23 [1], KameugneFND23 [338], abs-2306-05747 [579], PenzDN23 [497], NaderiRR23 [462], TasselGS23 [578], TardivoDFMP23 [577], YuraszeckMC23 [651], YuraszeckMCCR23 [653], AkramNHRSA23 [13], AbreuNP23 [169], ZhuSZW23 [668], IsikYA23 [323], AfsarVPG23 [8], ZhangBB22 [660], Teppan22 [581], EtminaniesfahaniGNMS22 [203], ColT22 [161], MullerMKP22 [453], YunusogluY22 [650], JungblutK22 [329], AbreuN22 [168], NaderiBZ22a [458], TouatBT22 [594], GeitzGSSW22 [240], BoudreaultSLQ22 [118], OujanaAYB22 [489], Bedhief21 [74]... (Total: 153)
Concepts	producer/consumer	SchuttS16 [545], PoderBS04 [503], Kumar03 [369], Beck99 [62], SimonisC95 [563]	HermenierDL11 [302], BeldiceanuC02 [79], Simonis99 [560], Simonis95a [558]	GeitzGSSW22 [240], KlankeBYE21 [348], CappartTSR18 [131], BlomPS16 [100], LombardiM12a [406], Wolf11 [640], SimonisH11 [564], LombardiMRB10 [410], ChenGPSH10 [147], PoderB08 [502], Simonis07 [561], Timpe02 [590], SimonisCK00 [562], Simonis95 [559]
Concepts	re-scheduling	Fatemi-AnarakiTFV23 [213], Astrand21 [35], Lemos21 [383], HamPK21 [277], Groleaz21 [263], BarzegaranZP20 [61], ZarandiASC20 [656], ZhangW18 [662], CappartS17 [130], Madi-WambaLOBM17 [420], Froger16 [224], BartakV15 [59], HarjunksoskiMBC14 [281], GrimesIOS14 [262], BajestaniB13 [42], TranTDB13 [600], RendlPHPR12 [518], LombardiM12 [407], IfrimOS12 [322], NovasH10 [477], BidotVLB09 [94], Laborie03 [371], Baptiste02 [44], MartinPY01 [429], ArtiguesR00 [33]	Mehdizadeh-Somarin23 [432], NaderiBZ22a [458], Zahout21 [654], KovacsTKSG21 [363], AstrandJZ20 [38], AntunesABD20 [20], RoshanaeiBAUB20 [523], GombolayWS18 [255], TranPZLDB18 [599], HoYCLLC18 [305], AntunesABD18 [19], HurleyOS16 [321], LimHTB16 [392], LimBTBB15 [393], CobanH11 [154], Lombardi10 [400], CobanH10 [153], Acuna-AgostMFG09 [5], Elkhyari03 [197], Beck99 [62]	PrataAN23 [511], ForbesHJST24 [218], abs-2306-05747 [579], abs-2305-19888 [298], ShaikhK23 [549], GurPAE23 [272], NaderiRR23 [462], PerezGSL23 [498], abs-2312-13682 [499], EfthymiouY23 [195], Adelgren2023 [7], TasselGS23 [578], JuvinHL23a [333], ZhuSZW23 [668], BourreauGGLT22 [119], HeinzNVH22 [297], ArmstrongGOS22 [27], LuoB22 [418], PohlAK22 [504], FarsiTM22 [212], YunusogluY22 [650], JuvinHL22 [331], YuraszeckMPV22 [652], ZhangYW21 [661], KlankeBYE21 [348], PandeyS21a [491], BenediktMH20 [86], MejiaY20 [433], LunardiBLRV20 [415]... (Total: 89)

Table 11: Works for Concepts of Type Concepts

Type	Keyword	High	Medium	Low
Concepts	release-date	BonninMNE24 [114], YunusogluY22 [650], JuvinHL22 [331], YuraszcekMPV22 [652], WinterMMW22 [637], EmdeZD22 [200], Groleaz21 [263], HanenKP21 [279], Bedhief21 [74], Polo-MejiaALB20 [505], EscobetPQPRA19 [202], Tesch18 [585], KameugneFSN14 [340], LimtanyakulS12 [395], SerraNM12 [548], TerekhovDOB12 [582], KameugneFSN11 [339], KovacsB11 [358], Lombardi10 [400], BartakSR10 [58], LombardiM10a [404], abs-0907-0939 [501], MercierH08 [438], KovacsB07 [356], Hooker07 [311], AkkerDH07 [608], SadykovW06 [530], ArtiouchineB05 [34], Hooker05 [308]... (Total: 36)	PrataAN23 [511], LacknerMMWW23 [376], JuvinHL23a [333], LacknerMMWW21 [375], Godet21a [248], ArtiguesHQT21 [32], GroleazNS20 [265], GroleazNS20a [264], AntuoriHHEN20 [21], ZarandiASC20 [656], GeibingerMM19 [238], ArkhipovBL19 [25], abs-1911-04766 [237], Dejemeppe16 [173], HeinzSB13 [296], KelbelH11 [343], MilanoW09 [443], Laborie09 [372], Limtanyakul07 [394], Simonis07 [561], MilanoW06 [442], Hooker06 [310], Hooker05a [309], WuBB05 [644], Sadykov04 [529], HarjunkoskiG02 [280], JainG01 [325], TorresL00 [593], SourdN00 [565]... (Total: 31)	ForbesHJST24 [218], PovedaAA23 [508], PenzDN23 [497], IsikYA23 [323], Adelgren2023 [7], YuraszcekMC23 [651], PohlAK22 [504], TouatBT22 [594], GeibingerMM21 [239], HillTV21 [304], AbreuAPNM21 [167], Zahout21 [654], Astrand21 [35], AntuoriHHEN21 [22], ZhangYW21 [661], KovacsTKSG21 [363], GodetLHS20 [249], Lunardi20 [416], MejiaY20 [433], Hooker19 [314], Novas19 [476], Caballero19 [127], NattafHKAL19 [468], abs-1902-09244 [284], LaborieRSV18 [374], TanT18 [574], KreterSSZ18 [366], Laborie18a [373], GokgurHO18 [251]... (Total: 85)
Concepts	resource	ForbesHJST24 [218], BonniniMNE24 [114], PrataAN23 [511], abs-2402-00459 [471], Fatemi-AnarakiTFV23 [213], JuvinHHL23 [330], PovedaAA23 [508], ShaikhK23 [549], GuoZ23 [271], NaderiRR23 [462], WangB23 [631], KameugneFND23 [338], YuraszcekMCCR23 [653], CzerniachowskaWZ23 [160], abs-2305-19888 [298], AlfieriGPS23 [15], JuvinHL23a [333], AalianPG23 [1], TardivoDFMP23 [577], GurPAE23 [272], AbreuPNF23 [3], HeinzNVH22 [297], AbreuN22 [168], TouatBT22 [594], YunusogluY22 [650], SubulanC22 [567], FarsiTM22 [212], EtminaniefahaniGNMS22 [203], NaderiBZ22 [459]... (Total: 397)	Caballero23 [128], abs-2312-13682 [499], AfsarVPG23 [8], Adelgren2023 [7], TasselGS23 [578], AbreuNP23 [169], PerezGSL23 [498], IsikYA23 [323], abs-2306-05747 [579], Bit-Monnot23 [96], ElciOH22 [196], PohlAK22 [504], MullerMKP22 [453], SvancaraB22 [571], abs-2211-14492 [568], YuraszcekMPV22 [652], WinterMMW22 [637], KlankeBYE21 [348], AstrandOF21 [36], TangB20 [575], LunardiBLRV20 [415], WallaceY20 [629], MokhtarzadehTNF20 [445], FrimodigS19 [223], abs-1902-01193 [14], ParkUJR19 [495], GedikKEK18 [235], BenediktSMVH18 [87], HoYCLCLC18 [305]... (Total: 63)	AkramNHRSA23 [13], PenzDN23 [497], MontemanniD23 [449], SquillaciPR23 [566], ZhuSZW23 [668], ZhangJZL22 [659], EmdeZD22 [200], Teppan22 [581], JungblutK22 [329], PopovicCGNC22 [506], ArmstrongGOS22 [27], HamPK21 [277], AbreuAPNM21 [167], AbohashimaEG21 [2], KoehlerBFFHPSSS21 [350], abs-2102-08778 [156], AntuoriHHEN21 [22], ArmstrongGOS21 [26], FanXG21 [211], MejiaY20 [433], BarzegaranZP20 [61], ThomasKS20 [588], NattafM20 [469], BadicaBIL19 [40], HoundjiSW19 [318], KucukY19 [370], NattafDYW19 [467], ColT19 [157], ZhangW18 [662]... (Total: 69)
Concepts	scheduling	PrataAN23 [511], ForbesHJST24 [218], BonniniMNE24 [114], abs-2402-00459 [471], AbreuNP23 [169], ZhuSZW23 [668], IsikYA23 [323], AalianPG23 [1], AbreuPNF23 [3], abs-2306-05747 [579], JuvinHHL23 [330], TardivoDFMP23 [577], YuraszcekMC23 [651], Fatemi-AnarakiTFV23 [213], Mehdizadeh-Somarin23 [432], KimCMLLP23 [347], AkramNHRSA23 [13], LacknerMMWW23 [376], GurPAE23 [272], AlfieriGPS23 [15], CzerniachowskaWZ23 [160], WangB23 [631], JuvinHL23 [332], NaderiRR23 [462], PenzDN23 [497], TasselGS23 [578], Bit-Monnot23 [96], abs-2305-19888 [298], abs-2312-13682 [499]... (Total: 563)	HebrardALLCMR22 [287], Kameugne15 [336], GayHS15 [232], BessiereHMQW14 [93], HoundjiSWD14 [319], LetortCB13 [386], LetortBC12 [385], ClercqPBJ11 [152], ChapadosJR11 [146], Baptiste09 [45], abs-0907-0939 [501], Acuna-AgostMFG09 [5], GomesHS06 [256], DilkinaDH05 [183], MoffittPP05 [444], WuBB05 [644], HebrardTW05 [289], ValleMGT03 [607], Vilim03 [615], HookerY02 [317], Vilim02 [614], RodriguezDG02 [521], FrostD98 [226], CestaOS98 [145], Touraivane95 [595]	Hooker17 [313], RossiTHP07 [526], AbrilSB05 [4], VanczaM01 [612]

Table 11: Works for Concepts of Type Concepts

Type	Keyword	High	Medium	Low	
Concepts	sequence setup	dependent	Groleaz21 [263], GedikKEK18 [235], TranAB16 [596], HamC16 [278], TranB12 [597], Wolf11 [640], FocacciLN00 [216]	IsikYA23 [323], YuraszeckMPV22 [652], GeitzGSSW22 [240], MengZRZL20 [437], CauwelaertDS20 [143], ZarandiASC20 [656], RiahiNS018 [519], Dejemeppe16 [173], GrimesH15 [260], LombardiM12 [407], Simonis07 [561], ArtiguesBF04 [30]	PrataAN23 [511], GuoZ23 [271], abs-2305-19888 [298], NaderiRR23 [462], Adelgren2023 [7], YunusogluY22 [650], PohlAK22 [504], NaderiBZ22a [458], HeinzNVH22 [297], OujanaAYB22 [489], HamPK21 [277], ArmstrongGOS21 [26], Bedhief21 [74], Astrand21 [35], Mercier-AubinGQ20 [439], MejiaY20 [433], RoshanaeiBAUB20 [523], MalapertN19 [425], Novas19 [476], KucukY19 [370], Hooker19 [314], ArbaouiY18 [24], LaborieRSV18 [374], FahimiOQ18 [207], Ham18 [275], RoshanaeiLAU17 [524], Pralet17 [509], HookerH17 [316], Fahimi16 [206]... (Total: 47)
Concepts	setup-time		PrataAN23 [511], IsikYA23 [323], AbreuPNF23 [3], LacknerMMWW23 [376], abs-2305-19888 [298], AbreuNP23 [169], NaderiRR23 [462], GeitzGSSW22 [240], NaderiBZ22 [459], WinterMMW22 [637], OujanaAYB22 [489], YunusogluY22 [650], YuraszeckMPV22 [652], PohlAK22 [504], HeinzNVH22 [297], AbreuN22 [168], ColT22 [161], Groleaz21 [263], Astrand21 [35], LacknerMMWW21 [375], Lunardi20 [416], NattafM20 [469], QinDCS20 [514], GroleazNS20a [264], MejiaY20 [433], GroleazNS20 [265], Mercier-AubinGQ20 [439], LunardiBLRV20 [415], CauwelaertDS20 [143]... (Total: 60)	Adelgren2023 [7], ZhuSZW23 [668], AlfieriGPS23 [15], CzerniachowskaWZ23 [160], PenzDN23 [497], KimCMLLP23 [347], LiFJZLL22 [389], Bedhief21 [74], FanXG21 [211], AbreuAPNM21 [167], ArmstrongGOS21 [26], AstrandJZ20 [38], LaborieRSV18 [374], HookerH17 [316], NovaraNH16 [475], HamC16 [278], GaySS14 [234], KelarevaTK13 [342], OzturkTHO13 [490], Wolf11 [640], Malapert11 [422], ThiruvadyBME09 [586], BeniniBGM06 [88], HarjunkoskiG02 [280], Timpe02 [590], Vilim02 [614]	EfthymiouY23 [195], YuraszeckMCCR23 [653], JuvinHL23 [332], AfsarVPG23 [8], JuvinHL23a [333], Mehdizadeh-Somarin23 [432], GuoZ23 [271], Fatemi-AnarakiTFV23 [213], JuvinHHL23 [330], JuvinHL22 [331], abs-2211-14492 [568], ZhangJZL22 [659], MullerMKP22 [453], Teppan22 [581], NaderiBZ22a [458], ZhangYW21 [661], AbohashimaEG21 [2], HamPK21 [277], BenderWS21 [84], Polo-MejiaALB20 [505], HauderBRPA20 [285], MokhtarzadehTNF20 [445], GodetLHS20 [249], RoshanaeiBAUB20 [523], Caballero19 [127], abs-1902-09244 [284], WikarekS19 [636], BehrensLM19 [76], KucukY19 [370]... (Total: 79)
Concepts	stock level		LopesCSM10 [411], SimonisC95 [563]	German18 [242], RossiTHP07 [526], Timpe02 [590], Simonis99 [560]	KhemmoudjPB06 [346], SimonisCK00 [562], Beck99 [62], Simonis95a [558]
Concepts	tardiness		PrataAN23 [511], NaderiRR23 [462], IsikYA23 [323], KimCMLLP23 [347], LacknerMMWW23 [376], AlfieriGPS23 [15], AbreuPNF23 [3], WinterMMW22 [637], YunusogluY22 [650], OujanaAYB22 [489], NaderiBZ22 [459], PohlAK22 [504], TouatBT22 [594], AbreuN22 [168], abs-2211-14492 [568], Groleaz21 [263], FanXG21 [211], LacknerMMWW21 [375], AntuoriHHEN21 [22], ZarandiASC20 [656], HauderBRPA20 [285], GroleazNS20a [264], Mercier-AubinGQ20 [439], MengZRZL20 [437], TangB20 [575], AntuoriHHEN20 [21], ParkUJR19 [495], abs-1902-09244 [284], Hooker19 [314]... (Total: 62)	abs-2402-00459 [471], AbreuNP23 [169], PenzDN23 [497], SubulanC22 [567], FarsiTM22 [212], EmdeZD22 [200], ElciOH22 [196], ColT22 [161], KovacsTKSG21 [363], AbreuAPNM21 [167], GroleazNS20 [265], Lunardi20 [416], GokgurHO18 [251], GedikKEK18 [235], Hooker17 [313], CireCH16 [151], TranAB16 [596], ThiruvadyWGS14 [587], TerekhovTDB14 [583], HarjunkoskiMBC14 [281], BajestaniB13 [42], Malapert11 [422], NovasH10 [477], BartakSR10 [58], Beck06 [63], QuirogaZH05 [516], GodardLN05 [247], Hooker05 [308], BeckPS03 [69]	Mehdizadeh-Somarin23 [432], JuvinHL23 [332], TasselGS23 [578], abs-2306-05747 [579], LiFJZLL22 [389], EtminaniesfahaniGNMS22 [203], NaderiBZ22a [458], ZhangJZL22 [659], VlKHT21 [625], KoehlerBFFHPSSS21 [350], HanenKP21 [279], HamPK21 [277], GeibingerMM21 [239], Astrand21 [35], QinWSLS21 [513], HubnerGSV21 [320], Bedhief21 [74], QinDCS20 [514], MejiaY20 [433], LunardiBLRV20 [415], Polo-MejiaALB20 [505], Tom19 [591], Novas19 [476], RiahiNS018 [519], ZhangW18 [662], KreterSSZ18 [366], Ham18a [276], RoshanaeiLAU17 [524], HookerH17 [316]... (Total: 74)

Table 11: Works for Concepts of Type Concepts

Type	Keyword	High	Medium	Low
Concepts	task	PrataAN23 [511], ForbesHJST24 [218], BonninMNE24 [114], abs-2402-00459 [471], JuvinHHL23 [330], WangB23 [631], YuraszeckMCCR23 [653], PovedaAA23 [508], AfsarVPG23 [8], KameugneFND23 [338], AkramNHRSA23 [13], JuvinHL23 [332], CzerniachowskaWZ23 [160], Fatemi-AnarakiTFV23 [213], Adelgren2023 [7], abs-2305-19888 [298], NaderiBZ22a [458], LiFJZLL22 [389], CampeauG22 [129], OuelletQ22 [488], GeitzGSSW22 [240], HeinzNVH22 [297], ColT22 [161], SubulanC22 [567], FetgoD22 [215], JuvinHL22 [331], abs-2211-14492 [568], ElciOH22 [196], EtminaniesfahaniGNMS22 [203]... (Total: 268)	JuvinHL23a [333], MontemanniD23a [448], Bit-Monnot23 [96], IsikYA23 [323], MontemanniD23 [449], SquillaciPR23 [566], LacknerMMWW23 [376], ShaikhK23 [549], WinterMMW22 [637], FarsiTM22 [212], OujanaAYB22 [489], YuraszeckMPV22 [652], PopovicCGNC22 [506], MullerMKP22 [453], AbreuN22 [168], SvancaraB22 [571], HubnerGSV21 [320], BenderWS21 [84], GeibingerMM21 [239], ZouZ20 [671], Polo-MejiaALB20 [505], AntuoriHHEN20 [21], BadicaBI20 [39], BarzegaranZP20 [61], WallaceY20 [629], WikarekS19 [636], Caballero19 [127], German18 [242], DemirovicS18 [178]... (Total: 63)	ZhuSZW23 [668], TardivoDFMP23 [577], abs-2306-05747 [579], NaderiRR23 [462], TasselGS23 [578], EfthymiouY23 [195], PerezGSL23 [498], abs-2312-13682 [499], Mehdizadeh-Somarin23 [432], GuoZ23 [271], ZhangJZL22 [659], ZhangBB22 [660], EmdeZD22 [200], Teppan22 [581], ArmstrongGOS22 [27], abs-2102-08778 [156], AntuoriHHEN21 [22], ZhangYW21 [661], FanXG21 [211], AbreuAPNM21 [167], LacknerMMWW21 [375], HamPK21 [277], AstrandJZ20 [38], SacramentoSP20 [528], BenediktMH20 [86], HauderBRPA20 [285], FallahiAC20 [210], MengZRZL20 [437], CauwelaertDS20 [143]... (Total: 109)
Concepts	temporal constraint reasoning	BartakSR10 [58], KeriK07 [344], FortinZDF05 [219]		
Concepts	transportation	GuoZ23 [271], CzerniachowskaWZ23 [160], PohlAK22 [504], BourreauGGLT22 [119], ArmstrongGOS22 [27], EmdeZD22 [200], GeitzGSSW22 [240], Lemos21 [383], ArmstrongGOS21 [26], ThomasKS20 [588], QinDCS20 [514], Lunardi20 [416], SacramentoSP20 [528], MurinR19 [454], Hooker19 [314], Ham18 [275], PourDERB18 [507], TangLWSK18 [576], CappartTSR18 [131], Froger16 [224], GoelSHFS15 [250], NovasH14 [479], BlomBPS14 [99], KelarevaTK13 [342], NovasH12 [478], HachemiGR11 [274], LopesCSM10 [411], BocewiczBB09 [101], MilanoW09 [443]... (Total: 34)	AfsarVPG23 [8], KimCMLP23 [347], Fatemi-AnarakiTFV23 [213], NaderiRR23 [462], AbreuPNF23 [3], AbreuN22 [168], SubulanC22 [567], PopovicCGNC22 [506], NaderiBZ22 [459], ElciOH22 [196], Astrand21 [35], Godet21a [248], AbohashimaEG21 [2], FallahiAC20 [210], MengZRZL20 [437], MejiaY20 [433], ZarandiASC20 [656], LaborieRSV18 [374], EvenSH15 [204], MelgarejoLS15 [11], HarjunkskiMBC14 [281], RendlPHPR12 [518], Malapert11 [422], MakMS10 [421], MouraSCL08 [452], MouraSCL08a [451], LimRX04 [391], Mason01 [431], ArtiguesR00 [33]... (Total: 31)	Adelgren2023 [7], AalianPG23 [1], PerezGSL23 [498], AlfieriGPS23 [15], ZhuSZW23 [668], IsikYA23 [323], AbreuNP23 [169], abs-2312-13682 [499], WangB23 [631], MontemanniD23a [448], NaderiBZ22a [458], BoudreaultSLQ22 [118], abs-2211-14492 [568], ZhangJZL22 [659], YuraszeckMPV22 [652], LiFJZLL22 [389], ColT22 [161], YunusogluY22 [650], AntuoriHHEN21 [22], HubnerGSV21 [320], Bedhief21 [74], Groleaz21 [263], GroleazNS20a [264], AntunesABD20 [20], WallaceY20 [629], HauderBRPA20 [285], CauwelaertDS20 [143], Novas19 [476], HoundjiSW19 [318]... (Total: 88)

7.2 Concept Type Classification

Table 12: Works for Concepts of Type Classification

Type	Keyword	High	Medium	Low
Classification	2BPHFSP	TangB20 [575]		
Classification	BPCTOP	KelarevaTK13 [342]		
Classification	Bulk Port Cargo Throughput Optimisation Problem			KelarevaTK13 [342]
Classification	CECSP	NattafHKAL19 [468], NattafAL17 [465], Nattaf16 [463], NattafALR16 [466], NattafAL15 [464]		
Classification	CHSP	EfthymiouY23 [195], WallaceY20 [629]		
Classification	CTW	KoehlerBFFHPSSS21 [350]	Lombardi10 [400]	
Classification	CuSP	KameugneFND23 [338], FetgoD22 [215], Tesch18 [585], KameugneFGOQ18 [337], Tesch16 [584], NattafALR16 [466], Nattaf16 [463], Froger16 [224], NattafAL15 [464], Derrien15 [179], Kameugne14 [335], KameugneFSN14 [340], DerrienPZ14 [181], KameugneFSN11 [339], SchuttW10 [546], DemasseY03 [176]	Fahimi16 [206], GingrasQ16 [246], OuelletQ13 [486], Elkhyari03 [197]	TardivoDFMP23 [577], HanenKP21 [279], Zahout21 [654], DerrienP14 [180]
Classification	EOSP		SquillaciPR23 [566]	
Classification	Earth Observation Scheduling Problem		SquillaciPR23 [566]	
Classification	FJS	JuvinHL23a [333], WangB23 [631], YuraszeckMCCR23 [653], JuvinHL22 [331], MullerMKP22 [453], Teppan22 [581], HamPK21 [277], WangB20 [630], Lunardi20 [416], LunardiBLRV20 [415], ZarandiASC20 [656], MengZRZL20 [437], Novas19 [476], MossigeGSMC17 [450], HamC16 [278]	OujanaAYB22 [489], HauderBRPA20 [285], abs-1902-09244 [284], ZhangW18 [662], SchuttFS13 [539]	NaderiRR23 [462], ColT22 [161], ZhouGL15 [666]
Classification	Fixed Job Scheduling	WangB20 [630]	WangB23 [631]	
Classification	GCSP	Groleaz21 [263], GroleazNS20 [265]		
Classification	HFF	ArmstrongGOS22 [27], OujanaAYB22 [489], ArmstrongGOS21 [26], ZhouGL15 [666]		
Classification	HFFTT	ArmstrongGOS22 [27], ArmstrongGOS21 [26]		
Classification	HFS	IsikYA23 [323], ZhangJZL22 [659], Astrand21 [35], ArmstrongGOS21 [26], Bedhief21 [74], TangB20 [575], MengZRZL20 [437], Baptiste02 [44]		ArmstrongGOS22 [27], ZarandiASC20 [656], Novas19 [476], ZhouGL15 [666]
Classification	JSPT		MurinR19 [454]	
Classification	JSSP	TasselGS23 [578], JuvinHL23a [333], JuvinHHL23 [330], YuraszeckMC23 [651], YuraszeckMCCR23 [653], abs-2306-05747 [579], JuvinHL22 [331], Teppan22 [581], ColT22 [161], YuraszeckMPV22 [652], GeitzGSSW22 [240], Godet21a [248], abs-2102-08778 [156], ZarandiASC20 [656], ColT19 [157], Pralet17 [509], MenciaSV13 [436], MenciaSV12 [435], KelbelH11 [343], BidotVLB09 [94], GodardLN05 [247], Baptiste02 [44], SourdN00 [565], TorresL00 [593], PapaB98 [494], NuijtenP98 [481], NuijtenA96 [482], NuijtenA94 [480]	GalleguillosKSB19 [227], LombardiBM15 [401], SialaAH15 [555], BelhadjiI98 [83]	Mehdizadeh-Somarin23 [432], CzerniachowskaWZ23 [160], EfthymiouY23 [195], WikarekS19 [636], PraletLJ15 [510], GrimesH15 [260], BajestaniB11 [41], ChenGPSH10 [147]

Table 12: Works for Concepts of Type Classification

Type	Keyword	High	Medium	Low
Classification	KRFP	KamarainenS02 [334], SakkoutW00 [531]		
Classification	LSFRP	KelarevaTK13 [342]		
Classification	Liner Shipping Fleet Repositioning Problem	KelarevaTK13 [342]		
Classification	MGAP	Darby-DowmanLMZ97 [164]		
Classification	Modified Generalized Assignment Problem			
Classification	OSP	NaderiRR23 [462], LacknerMMWW23 [376], Bit-Monnot23 [96], LacknerMMWW21 [375], Groleaz21 [263], GombolayWS18 [255], GrimesH15 [260], Siala15 [553], GayHLS15 [231], Siala15a [554], MalapertCGJLR12 [423]	SquillaciPR23 [566], GrimesHM09 [261], MonetteDD07 [446]	MengZRZL20 [437]
Classification	OSSP	YuraszeckMC23 [651], AbreuPNF23 [3], AbreuNP23 [169], YuraszeckMPV22 [652], ColT22 [161], AbreuN22 [168], AbreuAPNM21 [167], MejiaY20 [433], Baptiste02 [44]		YuraszeckMCCR23 [653], ZarandiASC20 [656]
Classification	Open Shop Scheduling Problem	AbreuPNF23 [3], AbreuNP23 [169], AbreuN22 [168], AbreuAPNM21 [167], MejiaY20 [433], ZarandiASC20 [656]	Malapert11 [422], LorigeonBB02 [413]	PrataAN23 [511], NaderiRR23 [462], Bit-Monnot23 [96], YuraszeckMCCR23 [653], YuraszeckMPV22 [652], ColT22 [161], Groleaz21 [263], MengZRZL20 [437], SacramentoSP20 [528], HookerH17 [316], GrimesH15 [260], MalapertCGJLR13 [424], MalapertCGJLR12 [423], Schutt11 [536], GrimesH10 [258], OhrimenkoSC09 [485], GrimesHM09 [261], MonetteDD07 [446], Baptiste02 [44], VerfaillieL01 [613]
Classification	PJSSP	Baptiste02 [44]	PapaB98 [494]	
Classification	PMSP	NaderiRR23 [462], YunusogluY22 [650], WinterMMW22 [637], PandeyS21a [491], Godet21a [248], GodetLHS20 [249], MalapertN19 [425], GedikKEK18 [235], GomesM17 [257], TranAB16 [596], TranB12 [597]	VlkHT21 [625], NattafM20 [469]	ColT22 [161], OujanaAYB22 [489], ZarandiASC20 [656]
Classification	PP-MS-MMRCPS			
Classification	PTC	NattafM20 [469], MalapertN19 [425], NattafDYW19 [467]	NaderiRR23 [462]	CzerniachowskaWZ23 [160], Teppan22 [581], Dejemeppe16 [173]
Classification	Pre-emptive Job-Shop scheduling Problem			
Classification	RCMPSP	HauderBRPA20 [285], abs-1902-09244 [284]		ArtiguesR00 [33]
Classification	RCPSP	YuraszeckMCCR23 [653], PovedaAA23 [508], CampeauG22 [129], BoudreaultSLQ22 [118], EtminaniefahaniGNMS22 [203], FetgoD22 [215], SubulanC22 [567], GeibingerMM21 [239], HubnerGSV21 [320], Godet21a [248], BenderWS21 [84], HillTV21 [304], Zahout21 [654], ArtiguesHQT21 [32], Groleaz21 [263], ZarandiASC20 [656], HauderBRPA20 [285], Polo-MejiaALB20 [505], GeibingerMM19 [238], abs-1911-04766 [237], Caballero19 [127], abs-1902-09244 [284], ArkhipovBL19 [25], KreterSSZ18 [366], KameugneFGOQ18 [337], LaborieRSV18 [374], TangLWSK18 [576], BofillCSV17 [103], Pralet17 [509]... (Total: 64)	Caballero23 [128], KameugneFND23 [338], TardivoDFMP23 [577], KovacsTKSG21 [363], GroleazNS20a [264], Tesch18 [585], CauwelaertLS18 [142], BaptisteB18 [46], Dejemeppe16 [173], NattafAL15 [464], GayHLS15 [231], LombardiBM15 [401], KameugneFSN14 [340], LombardiM13 [408], LombardiMB13 [409], KameugneFSN11 [339], HeinzS11 [295], abs-1009-0347 [541], KeriK07 [344], KovacsV06 [362], HeipckeCCS00 [299], ArtiguesR00 [33]	AbreuPNF23 [3], NaderiRR23 [462], GeitzGSSW22 [240], TouatBT22 [594], HananKP21 [279], Astrand21 [35], Lemos21 [383], ZhangYW21 [661], Mercier-AubinGQ20 [439], NattafHKAL19 [468], WikarekS19 [636], OuelletQ18 [487], FahimiOQ18 [207], HookerH17 [316], GingrasQ16 [246], Tesch16 [584], NattafALR16 [466], BonfiettiZLM16 [113], Fahimi16 [206], Siala15 [553], Siala15a [554], SialaAH15 [555], GayHS15a [233], DerrienPZ14 [181], BonfiettiLBM14 [109], KoschB14 [355], BonfiettiLM14 [111], OuelletQ13 [486], SchuttFS13 [539]... (Total: 45)
Classification	RCPSPDC	CampeauG22 [129], HubnerGSV21 [320]		

Table 12: Works for Concepts of Type Classification

Type	Keyword	High	Medium	Low
Classification	Resource-constrained Project Scheduling Problem with Discounted Cashflow			
Classification	SBSFMMAL	OzturkTHO13 [490]		
Classification	SCC	KimCMLLP23 [347], WolinskiKG04 [643]	SchuttFSW13 [543], Lombardi10 [400], abs-1009-0347 [541]	PohlAK22 [504], Zahout21 [654], LombardiMB13 [409], BeniniLMR11 [90], SchausHMCMD11 [533], LombardiMRB10 [410], BeniniLMR08 [89]
Classification	SMSDP			
Classification	Steel-making and continuous casting			
Classification	TCSP	BelhadjiI98 [83]		Zahout21 [654], BartakSR10 [58], LombardiM10a [404], Lombardi10 [400], Demassey03 [176]
Classification	TMS	PopovicCGNC22 [506], Froger16 [224]	BegB13 [75]	CappartS17 [130], Siala15a [554], Siala15 [553]
Classification	Temporal Constraint Satisfaction Problem		BelhadjiI98 [83]	BartakSR10 [58], MoffittPP05 [444], Elkhyari03 [197]
Classification	parallel machine	PrataAN23 [511], abs-2305-19888 [298], Adelgren2023 [7], IsikYA23 [323], CzerniachowskaWZ23 [160], NaderiRR23 [462], YunusogluY22 [650], ZhangJZL22 [659], WinterMMW22 [637], HeinzNVH22 [297], OujanaAYB22 [489], PandeyS21a [491], Astrand21 [35], Godet21a [248], Groleaz21 [263], ZarandiASC20 [656], MengZRZL20 [437], Lunardi20 [416], GodetLHS20 [249], NattafM20 [469], NattafDYW19 [467], MalapertN19 [425], GokgurHO18 [251], GedikKEK18 [235], ArbaouiY18 [24], TanT18 [574], GomesM17 [257], HebrardHJMPV16 [288], TranAB16 [596]... (Total: 35)	PenzDN23 [497], JuvinHL23a [333], Fatemi-AnarakiTFV23 [213], AbreuPNF23 [3], AbreuNP23 [169], Teppan22 [581], NaderiBZ22 [459], EmdeZD22 [200], ColT22 [161], Zahout21 [654], Bedhief21 [74], MokhtarzadehTNF20 [445], SacramentoSP20 [528], MejiaY20 [433], ParkUJR19 [495], Novas19 [476], BogaerdTW19 [609], Ham18a [276], BenediktSMVH18 [87], RoshanaeiLAU17 [524], CatusseCBL16 [140], ZhouGL15 [666], TerekhovTDB14 [583], TranTDB13 [600], BajestaniB13 [42], GuyonLPR12 [273], KovacsB11 [358], AkkerDH07 [608], SadykovW06 [530], Thorsteinsson01 [589]	KimCMLLP23 [347], GuoZ23 [271], JuvinHHL23 [330], LacknerMMWW23 [376], Mehdizadeh-Somarin23 [432], AlfieriGPS23 [15], JuvinHL22 [331], ArmstrongGOS22 [27], EtmianiesfahaniGNMS22 [203], NaderiBZ22a [458], HanenKP21 [279], FanXG21 [211], AbohashimaEG21 [2], AbreuAPNM21 [167], HamPK21 [277], LacknerMMWW21 [375], RoshanaeiBAUB20 [523], GroleazNS20a [264], QinDCS20 [514], AstrandJZ20 [38], NishikawaSTT19 [474], Hooker19 [314], ArkhipovBL19 [25], Ham18 [275], BaptisteB18 [46], LaborieRSV18 [374], HookerH17 [316], KletzanderM17 [349], KreterSS17 [365]... (Total: 47)
Classification	psplib	TardivoDFMP23 [577], Caballero19 [127], ArkhipovBL19 [25], KreterSSZ18 [366], OuelletQ18 [487], GayHS15a [233], Derrien15 [179], LetortCB15 [387], KameugneFSN14 [340], DerrienP14 [180], Kameugne14 [335], SchuttFSW13 [543], SchuttFS13a [538], HeinzSB13 [296], Letort13 [384], Clercq12 [170], SchuttFSW11 [542], Schutt11 [536], BertholdHLMS10 [92], SchuttFSW09 [540], Demassey03 [176]	KameugneFND23 [338], BoudreaultSLQ22 [118], EtmianiesfahaniGNMS22 [203], HillTV21 [304], BadicaBI20 [39], Tesch18 [585], FahimiOQ18 [207], BaptisteB18 [46], Tesch16 [584], GingrasQ16 [246], Nattaf16 [463], SzerediS16 [572], VilimLS15 [623], GayHLS15 [231], LombardiBM15 [401], BonfiettiLM14 [111], LetortCB13 [386], LombardiM12a [406], LetortBC12 [385], HeinzS11 [295], Vilim11 [620], abs-1009-0347 [541], SchuttW10 [546]	Godet21a [248], CauwelaertLS18 [142], LaborieRSV18 [374], YoungFS17 [648], Pralet17 [509], BofillCSV17 [103], Dejemeppe16 [173], SchnellH15 [535], ThiruvadyWGS14 [587], LombardiM13 [408], OuelletQ13 [486], LombardiM12 [407], KameugneFSN11 [339], LiessM08 [390], FortinZDF05 [219], DemasseyAM05 [177], ElkhyariGJ02a [199]

Classification	single machine	BonninMNE24 [114], PrataAN23 [511], AlfieriGPS23 [15], LacknerMMWW23 [376], PenzDN23 [497], TouatBT22 [594], HamPK21 [277], Groleaz21 [263], BenediktMH20 [86], ZarandiASC20 [656], BogaerdW19 [609], BajestaniB15 [43], BajestaniB13 [42], TerekhovDOB12 [582], KovacsB11 [358], ThiruvadyBME09 [586], WuBB09 [645], KovacsB07 [356], SadykovW06 [530], KanetAG04 [341], Elkhyari03 [197], Baptiste02 [44], SourdN00 [565], BlazewiczDP96 [126]	ZhangBB22 [660], EmdeZD22 [200], NaderiBZ22 [459], ElciOH22 [196], YuraszeckMPV22 [652], Bedhief21 [74], KoehlerBFFHPSSS21 [350], LacknerMMWW21 [375], PandeyS21a [491], Astrand21 [35], HillTV21 [304], Zahout21 [654], AbreuAPNM21 [167], NattafM20 [469], Lunardi20 [416], BenediktSMVH18 [87], Tesch18 [585], TranPZLDB18 [599], TanT18 [574], GomesM17 [257], TranAB16 [596], KoschB14 [355], BillautHL12 [95], TranB12 [597], KovacsK11 [360], Malapert11 [422], MilanoW09 [443], Jans09 [326], AkkerDH07 [608]... (Total: 35)	abs-2402-00459 [471], IsikYA23 [323], NaderiRR23 [462], Fatemi-AnarakiTFV23 [213], JuvinHL23a [333], Mehdizadeh-Somarin23 [432], GeitzGSSW22 [240], JuvinHL22 [331], ZhangJZL22 [659], AbreuN22 [168], ColT22 [161], abs-2211-14492 [568], PohlAK22 [504], LiFJZLL22 [389], Godet21a [248], FanXG21 [211], QinWSLS21 [513], KovacsTKSG21 [363], GodetLHS20 [249], TangB20 [575], ParkUJR19 [495], Tom19 [591], HoundjiSW19 [318], NattafDYW19 [467], NattafHKAL19 [468], Hooker19 [314], MalapertN19 [425], GedikKEK18 [235], ArbaouiY18 [24]... (Total: 84)
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7.3 Concept Type Constraints

Table 13: Works for Concepts of Type Constraints

Type	Keyword	High	Medium	Low
Constraints	AllDiff constraint	WangB20 [630]		Godet21a [248], FahimiOQ18 [207], Fahimi16 [206], Lombardi10 [400]
Constraints	AllDiffPrec constraint	Godet21a [248]		JuvinHHL23 [330]
Constraints	AlwaysConstant		LuoB22 [418], LaborieRSV18 [374]	
Constraints	Among constraint	Siala15a [554], Siala15 [553], BeldiceanuC94 [78]	Simonis07 [561]	German18 [242], HookerH17 [316], Simonis95 [559], AggounB93 [9]
Constraints	AmongSeq constraint		Siala15 [553], Siala15a [554]	
Constraints	Arithmetic constraint		ColT22 [161]	BadicaBI20 [39], Caballero19 [127], BadicaBIL19 [40], LaborieRSV18 [374], Schutt11 [536], OhrimenkoSC09 [485], ElkhyariGJ02a [199], Baptiste02 [44], Thorsteinsson01 [589], SakkoutW00 [531], FalaschiGMP97 [209], BeldiceanuC94 [78], AggounB93 [9]
Constraints	AtMostSeq	Siala15a [554], Siala15 [553]		
Constraints	AtMostSeqCard	Siala15 [553], Siala15a [554]		
Constraints	Atmost constraint	Siala15a [554], Siala15 [553]		
Constraints	Balance constraint	Laborie03 [371]	Timpe02 [590], Muscettola02 [456]	Simonis07 [561], BeldiceanuC94 [78] GuoZ23 [271], PopovicCGNC22 [506], German18 [242], SchuttS16 [545], Siala15 [553], Siala15a [554], GrimesH15 [260], Kameugne14 [335], DerrienPZ14 [181], TerekhovDOB12 [582], Lombardi10 [400], GrimesHM09 [261], LombardiM09 [403], BeckW07 [73], BeckW05 [72]
Constraints	BinPacking constraint			Godet21a [248], AntunesABD18 [19]
Constraints	Blocking constraint	AbreuNP23 [169], RiahiNS018 [519]		IsikYA23 [323], LiFJZLL22 [389], MengZRZL20 [437], Rodriguez07 [522]
Constraints	BufferedResource	BessiereHMQW14 [93]		
Constraints	Calendar constraint	KreterSSZ18 [366], KreterSS17 [365]	KreterSS15 [364]	PovedaAA23 [508], IsikYA23 [323], Polo-MejiaALB20 [505], LaborieRSV18 [374]
Constraints	CardPath			Siala15 [553], Siala15a [554]
Constraints	Cardinality constraint	Caballero19 [127], Dejemeppe16 [173], Siala15a [554], Siala15 [553], SchausHMCMD11 [533], Malik08 [426]	OuelletQ22 [488], HoundjiSW19 [318], German18 [242], MusliuSS18 [457], HookerH17 [316], Fahimi16 [206], BofilGSV15 [105], HoundjiSWD14 [319], ChuGNSW13 [148], HachemiGR11 [274], MilanoW09 [443], MalikMB08 [427], Simonis07 [561], MilanoW06 [442]	GeibingerKKMMW21 [236], Godet21a [248], Lemos21 [383], CauwelaertDS20 [143], TangB20 [575], abs-1911-04766 [237], TranVNB17 [601], PesantRR15 [500], DoulabiRP14 [190], BessiereHMQW14 [93], BajestaniB13 [42], LimtanyakulS12 [395], Menana11 [434], BajestaniB11 [41], ClercqPBJ11 [152], KovacsB11 [358], abs-0907-0939 [501], OhrimenkoSC09 [485], KovacsB08 [357], Baptiste02 [44], BeckF00 [68], PapaB98 [494], AggounB93 [9]
Constraints	Channeling constraint	OzturkTHO13 [490], Wallace06 [628]	KoehlerBFFHPSSS21 [350], BofilEGPSV14 [104], HeinzB12 [292]	WangB23 [631], AntuoriHHEN20 [21], LiuLH19 [397], GokgurHO18 [251], BofilGSV15 [105], HeinzKB13 [293], KovacsB11 [358], WuBB09 [645], MilanoW09 [443], MouraSCL08 [452], MouraSCL08a [451], GarganiR07 [228], MilanoW06 [442]
Constraints	Completion constraint	KovacsB11 [358], KovacsB08 [357], KovacsB07 [356]	BonninMNE24 [114]	HeckmanB11 [291]
Constraints	CumulativeCost	SimonisH11 [564]		

Table 13: Works for Concepts of Type Constraints

Type	Keyword	High	Medium	Low
Constraints	Cumulatives constraint	BeldiceanuC02 [79]	MossigeGSMC17 [450], Madi-WambaLOBM17 [420]	KameugneFND23 [338], TardivoDFMP23 [577], OuelletQ22 [488], BoudreaultSLQ22 [118], ArkhipovBL19 [25], OuelletQ18 [487], FahimiOQ18 [207], Fahimi16 [206], SchuttS16 [545], Dejemeppe16 [173], GayHS15a [233], LetortCB15 [387], GayHS15 [232], Kameugne14 [335], DerrienPZ14 [181], OuelletQ13 [486], Letort13 [384], ClercQ12 [170], LetortBC12 [385], SimonisH11 [564], ClercQPB11 [152], Malapert11 [422], Wolf11 [640], MilanoW09 [443], abs-0907-0939 [501], Simonis07 [561], MilanoW06 [442]
Constraints	Diff2 constraint			WolinskiKG04 [643], KuchcinskiW03 [368]
Constraints	Disjunctive constraint	KoehlerBFFHPSSS21 [350], Godet21a [248], GrimesH15 [260], Malapert11 [422], Baptiste02 [44], SourdN00 [565], RodosekW98 [520], PapaB98 [494], Zhou97 [665], DincbasSH90 [185]	BonninMNE24 [114], JuvinHHL23 [330], NaderiRR23 [462], BourreauGGLT22 [119], GodetLHS20 [249], GokgurHO18 [251], Fahimi16 [206], KuB16 [367], SialaAH15 [555], Siala15a [554], MelgarejoLS15 [11], Siala15 [553], SchuttFS13 [539], OzturkTHO13 [490], GrimesH11 [259], LombardiM10a [404], Lombardi10 [400], BartakSR10 [58], GrimesH10 [258], GrimesHM09 [261], ArtiguesBF04 [30], KanetAG04 [341], Laborie03 [371], ElkhayariGJ02a [199], SchildW00 [534], FocacciLN00 [216], BeckF00 [68], SakkoutW00 [531], Belhadji198 [83]... (Total: 32)	abs-2402-00459 [471], KameugneFND23 [338], Bit-Monnot23 [96], JuvinHL23a [333], NaderiBZ22a [458], JuvinHL22 [331], ZhangBB22 [660], abs-2211-14492 [568], BoudreaultSLQ22 [118], YuraszcekMPV22 [652], NaderiBZ22 [459], Groleaz21 [263], Astrand21 [35], AstrandOF21 [36], Polo-MejiaALB20 [505], MejiaY20 [433], AstrandJZ20 [38], WallaceY20 [629], German18 [242], LaborieRSV18 [374], KameugneFGOQ18 [337], TanT18 [574], FahimiOQ18 [207], DemirovicS18 [178], Dejemeppe16 [173], MurphyMB15 [455], Derrien15 [179], EvenSH15 [204], EvenSH15a [205]... (Total: 67)
Constraints	Element constraint	Dejemeppe16 [173]	KreterSS17 [365], Wolf11 [640], Darby-DowmanLMZ97 [164]	LacknerMMWW23 [376], LuoB22 [418], Godet21a [248], LacknerMMWW21 [375], TangB20 [575], AntuoriHHEN20 [21], KreterSSZ18 [366], LiuCGM17 [398], Madi-WambaLOBM17 [420], SzerediS16 [572], DoulabiRP16 [191], KreterSS15 [364], DoulabiRP14 [190], HoundjiSWD14 [319], BessiereHMQW14 [93], SimonisH11 [564], SchausHMCMD11 [533], Malapert11 [422], Schutt11 [536], MouraSCL08 [452], SchausD08 [532], GarganiR07 [228], BeldiceanuC94 [78]
Constraints	Flowtime constraint	BonninMNE24 [114]		
Constraints	GCC constraint	HoundjiSW19 [318], Dejemeppe16 [173], HoundjiSWD14 [319]	SchausHMCMD11 [533]	OuelletQ22 [488], TangB20 [575], CauwelaertLS18 [142], Siala15 [553], Siala15a [554], BajestaniB13 [42], HachemiGR11 [274], MilanoW09 [443], Simonis07 [561], MilanoW06 [442]
Constraints	GeneralizedAllDiffPrec	Godet21a [248]		
Constraints	IloAlternative			HeinzB12 [292]
Constraints	IloAlwaysIn			KreterSS17 [365], BajestaniB13 [42]
Constraints	IloForbidEnd			KreterSS17 [365]
Constraints	IloNoOverlap			GrimesH15 [260]
Constraints	IloPack		SchausD08 [532]	
Constraints	IloPulse			KreterSS17 [365], BajestaniB13 [42]
Constraints	MinWeightAllDiff	WangB20 [630]		WangB23 [631]
Constraints	MultiAtMostSeqCard	Siala15a [554], Siala15 [553]		
Constraints	PreemptiveNoOverlap	JuvinHHL23 [330]		
Constraints	Pulse constraint			
Constraints	Regular constraint	MusliuSS18 [457], Siala15a [554], Siala15 [553], PesantRR15 [500]	HookerH17 [316], Dejemeppe16 [173]	PandeyS21a [491], GeibingerMM19 [238], ArbaouiY18 [24], KreterSS17 [365] FrimodigS19 [223], PraletLJ15 [510], Menana11 [434], KovacsB11 [358], KovacsB08 [357]

Table 13: Works for Concepts of Type Constraints

Type	Keyword	High	Medium	Low
Constraints	Reified constraint	Schutt11 [536], MilanoW09 [443]	KovacsK11 [360], MilanoW06 [442]	Astrand21 [35], BadicaBI20 [39], CauwelaertLS18 [142], LaborieRSV18 [374], KreterSS17 [365], Dejemeppe16 [173], Siala15 [553], Siala15a [554], SchuttFSW13 [543], OhrimenkoSC09 [485], SchausD08 [532], SchildW00 [534]
Constraints	RelSoftCumulative	abs-0907-0939 [501]		
Constraints	RelSoftCumulativeSum			abs-0907-0939 [501]
Constraints	SoftCumulative	Clercq12 [170], ClercqPBJ11 [152], abs-0907-0939 [501]	OuelletQ22 [488]	
Constraints	SoftCumulativeSum	Clercq12 [170], abs-0907-0939 [501]		ClercqPBJ11 [152]
Constraints	TaskIntersection constraint	Madi-WambaB16 [419]		
Constraints	UTVPI constraint	Schutt11 [536]		
Constraints	WeightAllDiff	WangB20 [630]		WangB23 [631]
Constraints	WeightedSum	Wolf09 [642]		
Constraints	WeightedTaskSum	Wolf09 [642]		
Constraints	alldifferent	JuvinHHL23 [330], Lemos21 [383], KoehlerBFFHPSSS21 [350], Godet21a [248], HoundjiSW19 [318], CauwelaertLS18 [142], Dejemeppe16 [173], Siala15 [553], Derrien15 [179], Siala15a [554], Clercq12 [170], Menana11 [434], Malapert11 [422], MilanoW09 [443], OhrimenkoSC09 [485], Simonis07 [561], MilanoW06 [442], KanetAG04 [341]	GodetLHS20 [249], HookerH17 [316], Fahimi16 [206], BessiereHMqw14 [93], KelarevaTK13 [342], TerekhovDOB12 [582], Schutt11 [536]	WangB23 [631], ColT22 [161], FarsiTM22 [212], BourreauGGLT22 [119], Astrand21 [35], AntuoriHHEN20 [21], MokhtarzadehTNF20 [445], Caballero19 [127], FahimiOQ18 [207], Nattaf16 [463], MelgarejoLS15 [11], AlesioNBG14 [182], ChuGNSW13 [148], Letort13 [384], HachemiGR11 [274], ClercqPBJ11 [152], HermenierDL11 [302], TrojetHL11 [604], LopesCSM10 [411], Malik08 [426], Thorsteinnsson01 [589], Simonis99 [560], BeldiceanuC94 [78]
Constraints	alternative constraint	LaborieRSV18 [374]	abs-2305-19888 [298], MurinR19 [454], GokgurHO18 [251]	LacknerMMWW23 [376], ZhuSZW23 [668], NaderiRR23 [462], SvancaraB22 [571], WinterMMW22 [637], ZhangJZL22 [659], HeinzNVH22 [297], VlKHT21 [625], HillTV21 [304], ArmstrongGOS21 [26], HubnerGSV21 [320], PandeyS21a [491], MengZRZL20 [437], Polo-MejiaALB20 [505], SacramentoSP20 [528], YounespourAKE19 [647], GeibingerMM19 [238], NishikawaSTT19 [474], GalleguillosKSB19 [227], MalapertN19 [425], EscobetPQPRA19 [202], NattafDYW19 [467], abs-1911-04766 [237], NishikawaSTT18a [473], NishikawaSTT18 [472], ArbaouiY18 [24], Ham18a [276], Laborie18a [373], TranVNB17 [601]... (Total: 41)
Constraints	alwaysEqual constraint		LaborieRSV18 [374], GoelSHFS15 [250]	HamC16 [278]
Constraints	alwaysIn	PopovicCGNC22 [506], SerraNM12 [548]	AalianPG23 [1], LuoB22 [418], TangB20 [575], Polo-MejiaALB20 [505], MalapertN19 [425], LaborieRSV18 [374], GoelSHFS15 [250]	CampeauG22 [129], KreterSS17 [365], BajestaniB13 [42]
Constraints	bin-packing	Godet21a [248], Zahout21 [654], TangB20 [575], CauwelaertLS18 [142], RoshanaeiLAU17 [524], LetortCB15 [387], Letort13 [384], LetortCB13 [386], HeinzSSW12 [294], LetortBC12 [385], SchausHMCMD11 [533], Malapert11 [422], SchausD08 [532]	JuvinHL23a [333], LuoB22 [418], EmdeZD22 [200], BadicaBI20 [39], AntunesABD20 [20], FrimodigS19 [223], AntunesABD18 [19], BaptisteB18 [46], LiW08 [388], GarganiR07 [228], SchildW00 [534], SakkoutW00 [531]	abs-2402-00459 [471], Fatemi-AnarakiTFV23 [213], GuoZ23 [271], LacknerMMWW23 [376], AkramNHRSA23 [13], YunusogluY22 [650], abs-2211-14492 [568], ArmstrongGOS21 [26], GodetLHS20 [249], RoshanaeiBAUB20 [523], TranPZLDB18 [599], German18 [242], HookerH17 [316], Madi-WambaLOBM17 [420], DoulabiRP16 [191], DoulabiRP14 [190], KoschB14 [355], LimtanyakulS12 [395], EdisO11 [192], HermenierDL11 [302], Schutt11 [536], BeldiceanuCDP11 [80], Lombardi10 [400], LombardiMRB10 [410], KovacsB08 [357], HentenryckM08 [301], Simonis07 [561], DavenportKRSH07 [166], SimonisCK00 [562]... (Total: 31)

Table 13: Works for Concepts of Type Constraints

Type	Keyword	High	Medium	Low
Constraints	circuit	MontemanniD23a [448], KlankeBYE21 [348], Mercier-AubinGQ20 [439], MokhtarzadehTNF20 [445], Caballero19 [127], HookerH17 [316], Lombardi10 [400], RuggieroBBMA09 [527], Rodriguez07 [522], RodriguezDG02 [521], GruianK98 [266], Wallace96 [627], BeldiceanuC94 [78]	Groleaz21 [263], AntuoriHHEN20 [21], WessenCS20 [635], Siala15 [553], Siala15a [554], LombardiMB13 [409], TranB12 [597], Malapert11 [422], KrogtLPHJ07 [610], KuchcinskiW03 [368], HookerO03 [315], Thorsteinsson01 [589], Simonis99 [560], Simonis95a [558], DincbasSH90 [185]	PrataAN23 [511], IsikYA23 [323], MontemanniD23 [449], Fatemi-AnarakiTFV23 [213], JuvinHL23a [333], ColT22 [161], MullerMKP22 [453], JungblutK22 [329], FarsiTM22 [212], JuvinHL22 [331], Astrand21 [35], KoehlerBFFHPSSS21 [350], Zahout21 [654], ArmstrongGOS21 [26], GroleazNS20 [265], WallaceY20 [629], HoundjiSW19 [318], EscobetPQPRA19 [202], Hooker19 [314], Ham18a [276], TangLWSK18 [576], CappartTSR18 [131], CauwelaertLS18 [142], Hooker17 [313], BridiBLMB16 [121], HechingH16 [290], Dejemeppe16 [173], Bonfietti16 [106], TranAB16 [596]... (Total: 70)
Constraints	cumulative	TardivoDFMP23 [577], NaderiRR23 [462], LacknerMMWW23 [376], PovedaAA23 [508], AalianPG23 [1], KameugneFND23 [338], IsikYA23 [323], FetgoD22 [215], PohlAK22 [504], OuelletQ22 [488], ZhangJZL22 [659], LuoB22 [418], BoudreaaultSLQ22 [118], Lemos21 [383], LacknerMMWW21 [375], KovacsTKSG21 [363], Godet21a [248], Zahout21 [654], Groleaz21 [263], HanenKP21 [279], Polo-MejiaALB20 [505], Mercier-AubinGQ20 [439], WallaceY20 [629], GroleazNS20a [264], SacramentoSP20 [528], GodetLHS20 [249], ThomasKS20 [588], GroleazNS20 [265], YangSS19 [646]... (Total: 164)	ForbesHJST24 [218], BonninMNE24 [114], PrataAN23 [511], abs-2402-00459 [471], EfthymiouY23 [195], abs-2312-13682 [499], PerezGSL23 [498], ColT22 [161], ElciOH22 [196], YunusogluY22 [650], CampeauG22 [129], GeitzGSSW22 [240], AbreuN22 [168], HillTV21 [304], HubnerGSV21 [320], KlankeBYE21 [348], NattafM20 [469], NattafHKAL19 [468], GalleguillosKSB19 [227], NishikawaSTT19 [474], BorghesiBLMB18 [116], GedikKEK18 [235], TranVNB17a [602], HurleyOS16 [321], BoothNB16 [115], BonfiettiZLM16 [113], Bonfietti16 [106], LimHTB16 [392], CireCH16 [151]... (Total: 56)	GurPAE23 [272], TasselGS23 [578], JuvinHL23a [333], abs-2306-05747 [579], AbreuPNF23 [3], abs-2305-19888 [298], Bit-Monnot23 [96], YuraszeckMCCR23 [653], JuvinHHL23 [330], HeinzNVH22 [297], PopovicCGNC22 [506], HebrardALLCMR22 [287], abs-2211-14492 [568], SubulanC22 [567], JuvinHL22 [331], ArmstrongGOS22 [27], Astrand21 [35], PandeyS21a [491], ArtiguesHQT21 [32], GeibingerMM21 [239], KoehlerBFFHPSSS21 [350], ArmstrongGOS21 [26], ZouZ20 [671], HauderBRPA20 [285], CauwelaertDS20 [143], abs-1902-09244 [284], FrimodigS19 [223], YounespourAKE19 [647], HoundjiSW19 [318]... (Total: 114)
Constraints	cycle	AalianPG23 [1], Astrand0F21 [36], Astrand21 [35], AbohashimaEG21 [2], AntuoriHHEN21 [22], Groleaz21 [263], GroleazNS20a [264], AntuoriHHEN20 [21], WallaceY20 [629], AstrandJZ20 [38], Caballero19 [127], ParkUJR19 [495], BorghesiBLMB18 [116], AstrandJZ18 [37], GomesM17 [257], Dejemeppe16 [173], BridiBLMB16 [121], BessiereHMQW14 [93], BonfiettiLBM14 [109], BegB13 [75], MalapertCGJLR12 [423], MenciaSV12 [435], LombardiBMB11 [402], Malapert11 [422], Schutt11 [536], SunLYL10 [569], LombardiMRB10 [410], RuggieroBBMA09 [527], BocewiczBB09 [101]... (Total: 43)	EfthymiouY23 [195], CampeauG22 [129], Lemos21 [383], KoehlerBFFHPSSS21 [350], HillTV21 [304], HubnerGSV21 [320], Godet21a [248], CauwelaertDS20 [143], Lunardi20 [416], ZrandiASC20 [656], GroleazNS20 [265], ArkhipovBL19 [25], MossigeGSMC17 [450], TranAB16 [596], Froger16 [224], SimoninAHL15 [557], BurtLPS15 [125], PraletLJ15 [510], Siala15 [553], Siala15a [554], HarjunkoskiMBC14 [281], TranTDB13 [600], SchuttFSW13 [543], SimoninAHL12 [556], BonfiettiLBM12 [108], HachemiGR11 [274], KovacsB11 [358], BonfiettiLBM11 [107], Vilim11 [620]... (Total: 45)	Bit-Monnot23 [96], AkramNHRS23 [13], Fatemi-AnarakiTFV23 [213], GuoZ23 [271], ZhangBB22 [660], BourreauGGLT22 [119], AbreuN22 [168], ArmstrongGOS21 [26], Zahout21 [654], FanXG21 [211], HamPK21 [277], AbreuAPNM21 [167], QinDCS20 [514], BadicaBI20 [39], MokhtarzadehTNF20 [445], HauderBRPA20 [285], TangB20 [575], FallahiAC20 [210], Mercier-AubinGQ20 [439], Novas19 [476], Hooker19 [314], BadicaBIL19 [40], abs-1902-09244 [284], EscobetPQPRA19 [202], KucukY19 [370], Ham18a [276], Ham18 [275], TangLWSK18 [576], MusliuSS18 [457]... (Total: 88)
Constraints	diffn	ArmstrongGOS21 [26], Simonis07 [561], SimonisCK00 [562], BeldiceanuC94 [78]	BeldiceanuCDP11 [80]	BourreauGGLT22 [119], LuoB22 [418], KreterSS17 [365], KreterSS15 [364], Malapert11 [422], TrojetHL11 [604], ChenGPSH10 [147], Timpe02 [590], Simonis99 [560], GruianK98 [266], SimonisC95 [563], Simonis95a [558], Simonis95 [559]

Table 13: Works for Concepts of Type Constraints

Type	Keyword	High	Medium	Low
Constraints	disjunctive	BonninMNE24 [114], JuvinHHL23 [330], NaderiRR23 [462], AfsarVPG23 [8], Bit-Monnot23 [96], YuraszeckMPV22 [652], BourreauGGLT22 [119], ZhangBB22 [660], JuvinHL22 [331], Groleaz21 [263], Godet21a [248], KoehlerBFFHPSSS21 [350], Astrand21 [35], GodetLHS20 [249], FahimiOQ18 [207], GokgurHO18 [251], LaborieRSV18 [374], German18 [242], NattafAL17 [465], Pralet17 [509], HookerH17 [316], MossigeGSMC17 [450], FontaineMH16 [217], KuB16 [367], Fahimi16 [206], Siala15 [553], Siala15a [554], GrimesH15 [260], GoelSHFS15 [250]... (Total: 81)	Adelgren2023 [7], JuvinHL23a [333], BoudreaultSLQ22 [118], Astrand0F21 [36], GeibingerMM21 [239], AstrandJZ20 [38], Polo-MejiaALB20 [505], SacramentoSP20 [528], RoshanaeiBAUB20 [523], MejiaY20 [433], YangSS19 [646], CauwelaertLS18 [142], DemirovicS18 [178], TanT18 [574], KameugneFGOQ18 [337], Dejemeppe16 [173], Nattaf16 [463], SimoninAHL15 [557], VilimLS15 [623], EvenSH15 [204], EvenSH15a [205], GayHS15 [232], LipovetzkyBPS14 [396], KameugneFSN14 [340], HarjunkoskiMBC14 [281], GaySS14 [234], MalapertCGJLR13 [424], MalapertCGJLR12 [423], KelbelH11 [343]... (Total: 46)	abs-2402-00459 [471], LacknerMMWW23 [376], abs-2306-05747 [579], KameugneFND23 [338], EfthymiouY23 [195], TasselGS23 [578], Fatemi-AnarakiTFV23 [213], TardivoDFMP23 [577], ZhuSZW23 [668], PovedaAA23 [508], AbreuPNF23 [3], MullerMKP22 [453], ElciOH22 [196], NaderiBZ22a [458], OujanaAYB22 [489], NaderiBZ22 [459], OuelletQ22 [488], ColT22 [161], abs-2211-14492 [568], ZhangYW21 [661], KlankeBYE21 [348], ZaranDiASC20 [656], Mercier-AubinGQ20 [439], CauwelaertDS20 [143], WallaceY20 [629], Lunardi20 [416], KucukY19 [370], Hooker19 [314], abs-1911-04766 [237]... (Total: 138)
Constraints	endBeforeStart	SubulanC22 [567], QinDCS20 [514]	ZhuSZW23 [668], IsikYA23 [323], NaderiRR23 [462], NaderiBZ22a [458], PandeyS21a [491], LunardiBLRV20 [415], Lunardi20 [416], MengZRZL20 [437], LaborieRSV18 [374], NovaraNH16 [475], Laborie09 [372]	JuvinHL23a [333], LacknerMMWW23 [376], AalianPG23 [1], JuvinHHL23 [330], YuraszeckMCCR23 [653], CzerniachowskaWZ23 [160], JuvinHL23 [332], CampeauG22 [129], ZhangJZL22 [659], Teppan22 [581], YunusogluY22 [650], JuvinHL22 [331], LacknerMMWW21 [375], HamPK21 [277], HubnerGSV21 [320], ZhangYW21 [661], Polo-MejiaALB20 [505], BenediktMH20 [86], TangB20 [575], ZouZ20 [671], SacramentoSP20 [528], GeibingerMM19 [238], Novas19 [476], MurinR19 [454], abs-1902-09244 [284], ParkUJR19 [495], abs-1911-04766 [237], NishikawaSTT18a [473], NishikawaSTT18 [472]... (Total: 32)
Constraints	geost	BeldiceanuCDP11 [80]	LetortBC12 [385], PembertonG98 [496]	Letort13 [384], Malapert11 [422], Schutt11 [536], BeldiceanuCP08 [81]
Constraints	noOverlap	abs-2305-19888 [298], IsikYA23 [323], JuvinHHL23 [330], NaderiRR23 [462], ZhuSZW23 [668], PopovicCGNC22 [506], HeinzNVH22 [297], ColT22 [161], Groleaz21 [263], VlkHT21 [625], Lunardi20 [416], LunardiBLRV20 [415], QinDCS20 [514], GedikKEK18 [235], MelgarejoLS15 [11]	abs-2306-05747 [579], KimCMLLP23 [347], LacknerMMWW23 [376], TasselGS23 [578], YuraszeckMPV22 [652], NaderiBZ22a [458], AbreuN22 [168], PohlAK22 [504], SvancaraB22 [571], KlankeBYE21 [348], Bedhief21 [74], BenderWS21 [84], ZouZ20 [671], RoshanaeiBAUB20 [523], BenediktMH20 [86], MengZRZL20 [437], SacramentoSP20 [528], MalapertN19 [425], abs-1911-04766 [237], YounespourAKE19 [647], MurinR19 [454], EscobetPQPRA19 [202], Novas19 [476], LaborieRSV18 [374], Ham18a [276], ZhangW18 [662], ArbaouiY18 [24], Ham18 [275], CohenHB17 [155]... (Total: 36)	BonninMNE24 [114], JuvinHL23a [333], YuraszeckMC23 [651], AalianPG23 [1], AbreuPNF23 [3], AbreuNP23 [169], JuvinHL23 [332], CzerniachowskaWZ23 [160], SquillaciPR23 [566], YunusogluY22 [650], WinterMMW22 [637], CampeauG22 [129], OujanaAYB22 [489], ArmstrongGOS22 [27], TouatBT22 [594], EmdeZD22 [200], ZhangJZL22 [659], Teppan22 [581], JuvinHL22 [331], NaderiBZ22 [459], HamPK21 [277], AbreuAPNM21 [167], LacknerMMWW21 [375], GroleazNS20a [264], Polo-MejiaALB20 [505], GroleazNS20 [265], NattafM20 [469], BogaerdtW19 [609], NattafDYW19 [467]... (Total: 41)
Constraints	regular expression		FrimodigS19 [223]	HookerH17 [316]
Constraints	span constraint		Groleaz21 [263], CappartS17 [130], SchuttFS13 [539], LombardiM10a [404], Lombardi10 [400], Darby-DowmanLMZ97 [164]	OujanaAYB22 [489], ZhangBB22 [660], TangB20 [575], ZouZ20 [671], YounespourAKE19 [647], LaborieRSV18 [374], SimoninAHL15 [557], SimoninAHL12 [556], SchuttFSW11 [542], PerezGSL23 [498], abs-2312-13682 [499], ArmstrongGOS21 [26], CauwelaertLS18 [142], Siala15a [554], Siala15 [553], GayHS15 [232], PesantRR15 [500], MelgarejoLS15 [11], LimtanyakulS12 [395], BeniniLMR11 [90], BeckFW11 [66], HermenierDL11 [302], LopesCSM10 [411], MouraSCL08 [452], GodardLN05 [247], Laborie03 [371], ElkhyariGJ02 [198]
Constraints	table constraint	Lombardi10 [400], LombardiM10a [404], Baptiste02 [44], PapaB98 [494]	JelinekB16 [327], LombardiMRB10 [410]	

7.4 Concept Type ProgLanguages

Table 14: Works for Concepts of Type ProgLanguages

Type	Keyword	High	Medium	Low
ProgLanguages	C	KoehlerBFFHPSSS21 [350]		EmdeZD22 [200], HubnerGSV21 [320], ThomasKS20 [588], BogaerdtW19 [609], HoYCLLC18 [305], TangLSK18 [576], LaborieRSV18 [374], LombardiMRB10 [410], Lombardi10 [400], LombardiM10a [404], Laborie09 [372], GarridoOS08 [230], Layfield02 [382]
ProgLanguages	C++	Pape94 [492]	BourreauGGLT22 [119], Demassey03 [176]	BonninMNE24 [114], TardivoDFMP23 [577], JuvinHHL23 [330], ColT22 [161], NaderiBZ22a [458], PopovicCGNC22 [506], QinWSLS21 [513], AbreuAPNM21 [167], Lemos21 [383], Astrand21 [35], AntuoriHHEN21 [22], Mercier-AubinGQ20 [439], Polo-MejiaALB20 [505], AstrandJZ20 [38], RoshanaeiBAUB20 [523], Caballero19 [127], abs-1902-01193 [14], LaborieRSV18 [374], TranPZLDB18 [599], ArbaouiY18 [24], NattafAL17 [465], GomesM17 [257], Nattaf16 [463], Tesch16 [584], BoothNB16 [115], Bonfietti16 [106], NattafALR16 [466], Fahimi16 [206], NattafAL15 [464]... (Total: 73)
ProgLanguages	Java	abs-2102-08778 [156], Malapert11 [422]	Froger16 [224], Wolf11 [640], KuchcinskiW03 [368]	AlfieriGPS23 [15], KameugneFND23 [338], abs-2306-05747 [579], TasselGS23 [578], MullerMKP22 [453], FetgoD22 [215], ColT22 [161], Teppan22 [581], YuraszeckMPV22 [652], OuelletQ22 [488], Lemos21 [383], Groleaz21 [263], FanXG21 [211], AntuoriHHEN21 [22], ArmstrongGOS21 [26], CauwelaertDS20 [143], MejiaY20 [433], SacramentoSP20 [528], ThomasKS20 [588], TangB20 [575], BarzegaranZP20 [61], FrohnerTR19 [225], Tom19 [591], ColT19 [157], GeibingerMM19 [238], abs-1911-04766 [237], GombolayWS18 [255], KameugneFGQ18 [337], CauwelaertLS18 [142]... (Total: 59)
ProgLanguages	Julia			HebrardALLCMR22 [287], ElciOH22 [196], Groleaz21 [263], Astrand21 [35], CatusseCBL16 [140]
ProgLanguages	Lisp	Pape94 [492]		Wallace96 [627]
ProgLanguages	Prolog	ArmstrongGOS21 [26], Simonis99 [560], LammaMM97 [379], FalaschiGMP97 [209], Zhou97 [665], Wallace96 [627], Touraivane95 [595], Simonis95a [558], Simonis95 [559], DincbasSH90 [185]	BadicaBI20 [39], MossigeGSMC17 [450], Madi-WambaLOBM17 [420], Malapert11 [422], MartinPY01 [429], SimonisCK00 [562], RodosekW98 [520], Zhou96 [664], SimonisC95 [563], BeldiceanuC94 [78], AggounB93 [9]	PopovicCGNC22 [506], ArmstrongGOS22 [27], ZarandiASC20 [656], YangSS19 [646], abs-1902-01193 [14], CauwelaertLS18 [142], German18 [242], JelinekB16 [327], LetortCB15 [387], Kameugne14 [335], LetortCB13 [386], Letort13 [384], Clercq12 [170], LetortBC12 [385], Schutt11 [536], TrojetHL11 [604], BeldiceanuCDP11 [80], Menana11 [434], BartakCS10 [56], AronssonBK09 [29], BeldiceanuCP08 [81], KrogtLPHJ07 [610], Simonis07 [561], QuSN06 [515], Geske05 [243], PoderBS04 [503], Baptiste02 [44], Bartak02 [54], BeldiceanuC02 [79]... (Total: 38)
ProgLanguages	Python	KoehlerBFFHPSSS21 [350]	ForbesHJST24 [218], Fatemi-AnarakiTFV23 [213], GuoZ23 [271], abs-2211-14492 [568], AbreuN22 [168], AbreuAPNM21 [167], LaborieRSV18 [374]	AbreuPNF23 [3], EfthymiouY23 [195], AbreuNP23 [169], KimCMLLP23 [347], NaderiRR23 [462], Squillacipr23 [566], Mehdizadeh-Somarin23 [432], MontemanniD23 [449], PovedaAA23 [508], MontemanniD23a [448], AkramNHRSA23 [13], MullerMKP22 [453], ZhangBB22 [660], FetgoD22 [215], PohlAK22 [504], EtmianiesfahaniGNMS22 [203], LuoB22 [418], CampeauG22 [129], FanXG21 [211], HanenKP21 [279], BenderWS21 [84], KlankeBYE21 [348], Lemos21 [383], AbohashimaEG21 [2], Lunardi20 [416], LunardiBLRV20 [415], Mercier-AubinGQ20 [439], FrimodigS19 [223], FrohnerTR19 [225]... (Total: 39)

7.5 Concept Type CPSystems

Table 15: Works for Concepts of Type CPSystems

Type	Keyword	High	Medium	Low
CPSystems	CHIP	TrojetHL11 [604], Simonis07 [561], SimonisCK00 [562], Simonis99 [560], GruianK98 [266], Wallace96 [627], Simonis95 [559], Goltz95 [254], SimonisC95 [563], Simonis95a [558], BeldiceanuC94 [78], AggounB93 [9], DincbasSH90 [185]	ArmstrongGOS21 [26], YangSS19 [646], LaborieRSV18 [374], HookerH17 [316], Geske05 [243], PoderBS04 [503], Timpe02 [590], Beck99 [62], RodosekW98 [520], Zhou97 [665], LammaMM97 [379]	PrataAN23 [511], TardivoDFMP23 [577], KameugneFND23 [338], LuoB22 [418], FetgoD22 [215], BourreauGGLT22 [119], PopovicCGNC22 [506], KlankeBYE21 [348], Godet21a [248], GodetLHS20 [249], Caballero19 [127], abs-1902-01193 [14], GoldwaserS18 [253], BaptisteB18 [46], KameugneFGOQ18 [337], CauwelaertLS18 [142], GokgurHO18 [251], MossigeGSMC17 [450], Pralet17 [509], KreterSS17 [365], FontaineMH16 [217], Madi-WambaB16 [419], Dejemeppe16 [173], Fahimi16 [206], ZhouGL15 [666], LetortCB15 [387], Siala15a [554], SimoninAHL15 [557], Siala15 [553]... (Total: 80)
CPSystems	CPO	LacknerMMWW23 [376], JuvinHHL23 [330], Bit-Monnot23 [96], CzerniachowskaWZ23 [160], NaderiRR23 [462], JuvinHL23a [333], WinterMMW22 [637], ZhangBB22 [660], ColT22 [161], NaderiBZ22 [459], LacknerMMWW21 [375], Zahout21 [654], Groleaz21 [263], ArmstrongGOS21 [26], ThomasKS20 [588], Lunardi20 [416], NattafM20 [469], GroleazNS20 [265], Polo-MejiaALB20 [505], GroleazNS20a [264], SacramentoSP20 [528], GeibingerMM19 [238], ColT19 [157], MalapertN19 [425], CappartTSR18 [131], LaborieRSV18 [374], KreterSS17 [365], GoelSHFS15 [250], PraletLJ15 [510]... (Total: 31)	AalianPG23 [1], JuvinHL22 [331], abs-1911-04766 [237], Dejemeppe16 [173], GrimesH15 [260], NuijtenA96 [482], NuijtenA94 [480]	JuvinHL23 [332], PovedaAA23 [508], NaderiBZ22a [458], OujanaAYB22 [489], GeibingerMM21 [239], abs-2102-08778 [156], TangB20 [575], Caballero19 [127], Ham18a [276], Laborie18a [373], Pralet17 [509], VilimLS15 [623], BartakSR10 [58], Vilim09 [618], GarridoAO09 [229], GarridoOS08 [230], BeldiceanuC94 [78]
CPSystems	Choco Solver	TasselGS23 [578], abs-2306-05747 [579], Godet21a [248], German18 [242], Fahimi16 [206], LetortCB15 [387], Derrien15 [179], LetortCB13 [386], Letort13 [384], OuelletQ13 [486], LetortBC12 [385], Malapert11 [422], Menana11 [434], abs-0907-0939 [501], GrimesHM09 [261], GarridoAO09 [229], GarridoOS08 [230], Elkhayari03 [197]	KameugneFND23 [338], MullerMKP22 [453], FetgoD22 [215], AntuoriHHEN21 [22], AntuoriHHEN20 [21], LiuLH19 [397], FahimiOQ18 [207], KameugneFGOQ18 [337], LaborieRSV18 [374], Froger16 [224], GayHS15 [232], KoschB14 [355], Kameugne14 [335], DerrienP14 [180], DerrienPZ14 [181], MalapertCGJLR12 [423], Clercq12 [170], ClercqPBJ11 [152], HermenierDL11 [302]	BourreauGGLT22 [119], OuelletQ22 [488], Groleaz21 [263], GodetLHS20 [249], YangSS19 [646], OuelletQ18 [487], GingrasQ16 [246], AmadiniGM16 [17], Madi-WambaB16 [419], MurphyMB15 [455], EvenSH15 [204], GrimesH15 [260], EvenSH15a [205], BessiereHMQW14 [93], MalapertCGJLR13 [424], SimonisH11 [564], BartakSR10 [58], RossiTHP07 [526], CorreaLR07 [159], Baptiste02 [44]
CPSystems	Chuffed	LacknerMMWW23 [376], PovedaAA23 [508], BoudreaultSLQ22 [118], MullerMKP22 [453], LacknerMMWW21 [375], GeibingerMM21 [239], Godet21a [248], KoehlerBFFHPSSS21 [350], ArmstrongGOS21 [26], WallaceY20 [629], GodetLHS20 [249], abs-1911-04766 [237], KreterSSZ18 [366], YoungFS17 [648], KreterSS17 [365], SzerediS16 [572], KreterSS15 [364]	GoldwaserS18 [253]	Caballero19 [127], SchuttS16 [545]
CPSystems	Claire	Nattaf16 [463], Siala15a [554], Siala15 [553], Malapert11 [422], Demassey03 [176], Elkhayari03 [197], BaptisteP00 [49]	Zahout21 [654], Menana11 [434], BaptisteP97 [48]	HebrardALLCMR22 [287], Godet21a [248], HanenKP21 [279], Derrien15 [179], Kameugne14 [335], Letort13 [384], Baptiste02 [44], PapaB98 [494]

Table 15: Works for Concepts of Type CPSystems

Type	Keyword	High	Medium	Low
CPSystems	Cplex	GuoZ23 [271], AfsarVPG23 [8], ZhuSZW23 [668], Adelgren2023 [7], CzerniachowskaWZ23 [160], NaderiRR23 [462], NaderiBZ22 [459], ElciOH22 [196], BourreauGGLT22 [119], WinterMMW22 [637], SubulanC22 [567], EtminaniesfahaniGNMS22 [203], EmdeZD22 [200], MullerMKP22 [453], HamPK21 [277], HubnerGSV21 [320], GeibingerKKMMW21 [236], KoehlerBFFHPSSS21 [350], PandeyS21a [491], Bedhief21 [74], Lemos21 [383], Groleaz21 [263], SacramentoSP20 [528], MejiaY20 [433], LunardiBLRV20 [415], RoshanaeiBAUB20 [523], QinDCS20 [514], ZouZ20 [671], Lunardi20 [416]... (Total: 54)	BonninMNE24 [114], Fatemi-AnarakiTFV23 [213], LacknerMMWW23 [376], MehdiZadeh-Somarin23 [432], AbreuNP23 [169], IsikYA23 [323], CampeauG22 [129], LuoB22 [418], TouatBT22 [594], NaderiBZ22a [458], YunusogluY22 [650], ColT22 [161], LacknerMMWW21 [375], Zahout21 [654], KovacsTKSG21 [363], QinWLS21 [513], ArmstrongGOS21 [26], MokhtarzadehTNF20 [445], HauderBRPA20 [285], NattafM20 [469], WallaceY20 [629], MalapertN19 [425], NattafHKAL19 [468], abs-1902-09244 [284], Novas19 [476], Ham18a [276], German18 [242], GomesM17 [257], RoshanaeiLAU17 [524]... (Total: 61)	JuvinHL23a [333], AlfieriGPS23 [15], JuvinHL23 [332], AbreuPNF23 [3], PovedaAA23 [508], PenzDN23 [497], AalianPG23 [1], SquillaciPR23 [566], GurPAE23 [272], YuraszeckMCCR23 [653], JuvinHL22 [331], PohlAK22 [504], AbreuN22 [168], abs-2211-14492 [568], FarsiTM22 [212], YuraszeckMPV22 [652], PopovicCGNC22 [506], ZhangYW21 [661], abs-2102-08778 [156], GeibingerMM21 [239], FanXG21 [211], Astrand21 [35], VlkHT21 [625], ArtiguesHQT21 [32], KlankeBYE21 [348], AbreuAPNM21 [167], Polo-MejiaALB20 [505], TangB20 [575], ThomasKS20 [588]... (Total: 112)
CPSystems	ECLiPSe	BadicaBI20 [39], BadicaBIL19 [40], RodosekW98 [520]	Kameugne14 [335], SchuttFSW11 [542], Malapert11 [422], Schutt11 [536], MilanoW09 [443], LiW08 [388], MilanoW06 [442], Wallace06 [628], KanetAG04 [341], KamarainenS02 [334], Simonis99 [560], Darby-DowmanLMZ97 [164], Wallace96 [627]	FanXG21 [211], MejiaY20 [433], WikarekS19 [636], HookerH17 [316], HarjunkoskiMBC14 [281], Clercq12 [170], ZeballosQH10 [658], LombardiMRB10 [410], SchuttFSW09 [540], BeniniBGM06 [88], ChuX05 [149], QuirogaZH05 [516], HarjunkoskiG02 [280], Baptiste02 [44], MartinPY01 [429], JainG01 [325], LammaMM97 [379]
CPSystems	Gecode	TardivoDFMP23 [577], Astrand21 [35], BadicaBI20 [39], AstrandJZ20 [38], BadicaBIL19 [40], Fahimi16 [206], SzerediS16 [572], ZhouGL15 [666], GayHS15 [232], Kameugne14 [335], KameugneFSN14 [340], OhrimenkoSC09 [485]	MullerMKP22 [453], AntuoriHHEN21 [22], Groleaz21 [263], GeibingerKKMMW21 [236], Astrand0F21 [36], GeibingerMM19 [238], FrohnerTR19 [225], abs-1911-04766 [237], LaborieRSV18 [374], BurtLPS15 [125], BofilIEGPSV14 [104], Malapert11 [422], KovacsK11 [360], KameugneFSN11 [339], ThiruvadyBME09 [586]	ArmstrongGOS21 [26], WessenCS20 [635], WallaceY20 [629], MengZRZL20 [437], YangSS19 [646], FrimodigS19 [223], MusliuSS18 [457], GoldwaserS18 [253], CauwelaertLS18 [142], AstrandJZ18 [37], GoldwaserS17 [252], Dejemeppe16 [173], AmadiniGM16 [17], PesantRR15 [500], HarjunkoskiMBC14 [281], LombardiMB13 [409], Clercq12 [170], MonetteDD07 [446]
CPSystems	Gurobi	WangB23 [631], Adelgren2023 [7], LacknerMMWW23 [376], NaderiRR23 [462], WinterMMW22 [637], ZhangBB22 [660], LacknerMMWW21 [375], Lemos21 [383], KovacsTKSG21 [363], GeibingerKKMMW21 [236], KoehlerBFFHPSSS21 [350], WangB20 [630], WallaceY20 [629], FrohnerTR19 [225], MusliuSS18 [457], GombolayWS18 [255], RoshanaeiLAU17 [524], KuB16 [367]	ForbesHJST24 [218], GuoZ23 [271], Groleaz21 [263], VlkHT21 [625], GoldwaserS18 [253], GoldwaserS17 [252], FontaineMH16 [217], Froger16 [224]	abs-2305-19888 [298], KimCMLLP23 [347], MontemanniD23 [449], HeinzNVH22 [297], PohlAK22 [504], AbohashimaEG21 [2], HubnerGSV21 [320], FanXG21 [211], KlankeBYE21 [348], BenediktMH20 [86], MengZRZL20 [437], He0GLW18 [286], DemirovicS18 [178], BenediktSMVH18 [87], TranAB16 [596], AmadiniGM16 [17], BurtLPS15 [125], PesantRR15 [500], HarjunkoskiMBC14 [281]
CPSystems	Ilog Scheduler	GrimesH11 [259], Malapert11 [422], ZeballosQH10 [658], Laborie03 [371]	LaborieRSV18 [374], LimtanyakulS12 [395], NovasH12 [478], HeinzB12 [292], HeckmanB11 [291], BeckFW11 [66], GrimesHM09 [261], WatsonB08 [634], ZeballosH05 [657], BeckR03 [70], JainG01 [325], Beck99 [62], NuijtenP98 [481]	Laborie18a [373], KuB16 [367], SchuttS16 [545], Fahimi16 [206], TranWDRFOVB16 [603], GrimesH15 [260], TerekhovTDB14 [583], NovasH14 [479], TerekhovDOB12 [582], Schutt11 [536], BeniniLMR11 [90], KovacsB11 [358], SchuttFSW11 [542], LahimerLH11 [377], HachemiGR11 [274], LopesCSM10 [411], abs-1009-0347 [541], ChenGPSH10 [147], NovasH10 [477], CarchraeB09 [132], RuggieroBBMA09 [527], BidotVLB09 [94], Vilim09a [619], MouraSCL08a [451], MouraSCL08 [452], BeniniLMR08 [89], KovacsB08 [357], HoeveGSL07 [611], Simonis07 [561]... (Total: 57)

Table 15: Works for Concepts of Type CPSystems

Type	Keyword	High	Medium	Low
CPSystems	Ilog Solver		GrimesH11 [259], ZeballosQH10 [658], LiW08 [388], SchausD08 [532], HarjunkoskiG02 [280], JainG01 [325]	abs-1902-01193 [14], LaborieRSV18 [374], HookerH17 [316], Dejemeppe16 [173], ZarandiKS16 [655], PesantRR15 [500], Siala15 [553], Siala15a [554], BonfiettiLBM14 [109], NovasH14 [479], OzturkTHO13 [490], LombardiMB13 [409], HeinzB12 [292], BonfiettiLBM12 [108], NovasH12 [478], TerekhovDOB12 [582], LombardiM12a [406], BajestaniB11 [41], KovacsK11 [360], KovacsB11 [358], BandaSC11 [171], KelbelH11 [343], BonfiettiLBM11 [107], TopalogluO11 [592], Schutt11 [536], LombardiM10 [405], abs-1009-0347 [541], LopesCSM10 [411], ChenGPSH10 [147]... (Total: 61)
CPSystems	MiniZinc	LacknerMMWW23 [376], TardivoDFMP23 [577], BoudreaultSLQ22 [118], MullerMKP22 [453], JungblutK22 [329], ColT22 [161], KoehlerBFFHPSSS21 [350], LacknerMMWW21 [375], ArmstrongGOS21 [26], Mercier-AubinGQ20 [439], WallaceY20 [629], abs-1911-04766 [237], FrohnerTR19 [225], GeibingerMM19 [238], ColT19 [157], HookerH17 [316], YoungFS17 [648], LiuCGM17 [398], AmadiniGM16 [17], SzerediS16 [572], BofilIEGPSV14 [104], KelarevaTK13 [342]	PovedaAA23 [508], Godet21a [248], MusliuSS18 [457], KreterSS17 [365], KreterSS15 [364]	Bit-Monnot23 [96], OuelletQ22 [488], GeibingerKKMMW21 [236], abs-2102-08778 [156], FrimodigS19 [223], abs-1901-07914 [77], Hooker19 [314], Caballero19 [127], BehrensLM19 [76], KreterSSZ18 [366], DemirovicS18 [178], CappartTSR18 [131], TranVNB17 [601], FontaineMH16 [217], SchuttS16 [545], BurtLPS15 [125], HeinzSB13 [296], SchuttFS13 [539]
CPSystems	Mistral	JuvinHHL23 [330], Siala15 [553], Siala15a [554], Malapert11 [422], GrimesHM09 [261]	Bit-Monnot23 [96], Kameugne14 [335], BillautHL12 [95]	GrimesH15 [260], SialaAH15 [555]
CPSystems	OPL	LacknerMMWW23 [376], GuoZ23 [271], YunusogluY22 [650], MullerMKP22 [453], TouatBT22 [594], ColT22 [161], LacknerMMWW21 [375], PandeyS21a [491], KoehlerBFFHPSSS21 [350], QinDCS20 [514], Novas19 [476], EscobetPQPRA19 [202], LaborieRSV18 [374], TangLWSK18 [576], NovaraNH16 [475], Dejemeppe16 [173], AlesioNBG14 [182], LouieVNB14 [414], NovasH12 [478], HachemiGR11 [274], ZeballosQH10 [658], Laborie09 [372], LiW08 [388], KhayatLR06 [345], KanetAG04 [341], JainG01 [325], AggounB93 [9]	SubulanC22 [567], Teppan22 [581], ZarandiASC20 [656], Mercier-AubinGQ20 [439], ZouZ20 [671], MurinR19 [454], Laborie18a [373], CappartTSR18 [131], HookerH17 [316], LimBTBB15 [393], WangMD15 [632], EvenSH15a [205], HarjunkoskiMBC14 [281], NovasH14 [479], OzturkTHO13 [490], SerraNM12 [548], HeinzB12 [292], EdisO11 [192], ZibranR11a [670], KelbelH11 [343], Menana11 [434], TopalogluO11 [592], NovasH10 [477], MilanoW09 [443], Wolf09 [642], Simonis07 [561], GarganiR07 [228], CorreaLR07 [159], Hooker07 [311]... (Total: 42)	abs-2402-00459 [471], ForbesHJST24 [218], EfthymiouY23 [195], YuraszeckMCCR23 [653], AbreuPNF23 [3], abs-2312-13682 [499], GurPAE23 [272], CzerniachowskaWZ23 [160], MontemanniD23 [449], IsikYA23 [323], Fatemi-AnarakiTFV23 [213], PerezGSL23 [498], AbreuNP23 [169], ArmstrongGOS22 [27], ZhangBB22 [660], BoudreaultSLQ22 [118], GeitzGSSW22 [240], OujanaAYB22 [489], LiFJZLL22 [389], Lemos21 [383], VlKHT21 [625], Bedhief21 [74], HamPK21 [277], QinWSLS21 [513], Groleaz21 [263], Godet21a [248], Astrand21 [35], abs-2102-08778 [156], HubnerGSV21 [320]... (Total: 110)
CPSystems	OR-Tools	abs-2402-00459 [471], LacknerMMWW23 [376], ColT22 [161], MullerMKP22 [453], abs-2211-14492 [568], KoehlerBFFHPSSS21 [350], Groleaz21 [263], abs-2102-08778 [156], KovacsTKSG21 [363], LacknerMMWW21 [375], FallahiAC20 [210], ColT19 [157], GayHS15 [232]	EfthymiouY23 [195], BoudreaultSLQ22 [118], Godet21a [248], GeibingerKKMMW21 [236], BarzegaranZP20 [61], ThomasKS20 [588], LiuCGM17 [398], Dejemeppe16 [173]	Bit-Monnot23 [96], KimCMLLP23 [347], MontemanniD23 [449], AkramNHRSA23 [13], MontemanniD23a [448], EtminaniefahaniGNMS22 [203], Teppan22 [581], KlankeBYE21 [348], MengZRZL20 [437], GroleazNS20 [265], GalleguillosKSB19 [227], BehrensLM19 [76], abs-1901-07914 [77], YangSS19 [646], PourDERB18 [507], BonfiettiZLM16 [113], AmadiniGM16 [17], ZhouGL15 [666], LombardiMB13 [409], LombardiM12 [407]
CPSystems	OZ	Layfield02 [382]	MaraveliasG04 [428], BeldiceanuC94 [78]	Froger16 [224], KorbayYG99 [353]
CPSystems	SCIP	Caballero19 [127], KuB16 [367], SchnellH15 [535], HeinzSB13 [296], HeinzB12 [292], MilanoW09 [443]	HookerH17 [316], BofilICSV17 [103], TranAB16 [596], BofilIEGPSV14 [104], SchuttFS13a [538], HeinzKB13 [293], CireCH13 [150]	GuoZ23 [271], NaderiRR23 [462], Groleaz21 [263], WikarekS19 [636], SzerediS16 [572], HarjunkoskiMBC14 [281], KelarevaTK13 [342], HeinzS11 [295], Schutt11 [536], BertholdHLMS10 [92]
CPSystems	SICStus	ArmstrongGOS21 [26], LetortCB15 [387], Letutt13 [384], LetortCB13 [386], LetortBC12 [385]	MossigeGSMC17 [450], Kameugne14 [335], Schutt11 [536], Malapert11 [422], SchuttFSW11 [542], QuSN06 [515]	PopovicCGNC22 [506], ArmstrongGOS22 [27], YangSS19 [646], German18 [242], Madi-WambaLOBM17 [420], JelinekB16 [327], Clercq12 [170], BeldiceanuCDP11 [80], TrojetHL11 [604], BartakCS10 [56], Wolf09 [642], SchuttFSW09 [540], BeldiceanuCP08 [81], Geske05 [243], Bartak02 [54], BeldiceanuC02 [79], Simonis99 [560]

Table 15: Works for Concepts of Type CPSystems

Type	Keyword	High	Medium	Low
CPSystems	Z3	KoehlerBFFHPSSS21 [350], YounespourAKE19 [647], Menana11 [434], SureshMOK06 [570]	NaderiRR23 [462], VlKHT21 [625], ArkhipovBL19 [25], WikarekS19 [636], German18 [242], Baptiste02 [44], Zhou97 [665]	Groleaz21 [263], Caballero19 [127], ZhangW18 [662], BofilCSV17 [103], BertholdHLMs10 [92], Rodriguez07 [522], Wallace06 [628], Layfield02 [382], Zhou96 [664]

7.6 Concept Type ApplicationAreas

Table 16: Works for Concepts of Type ApplicationAreas

Type	Keyword	High	Medium	Low
ApplicationAreas	COVID	GuoZ23 [271]	GeibingerKKMMW21 [236]	BonninMNE24 [114], Mehdizadeh-Somarin23 [432], JuvinHL23a [333], Fatemi-AnarakiTFV23 [213], GurPAE23 [272], OujanaAYB22 [489], Lemos21 [383]
ApplicationAreas	HVAC	LimHTB16 [392], LimBTBB15 [393], GrimesIOS14 [262]		
ApplicationAreas	agriculture			AkramNHRS23 [13], BenderWS21 [84], Astrand0F21 [36], HamPK21 [277], Astrand21 [35], QinWSLS21 [513], MejiaY20 [433]
ApplicationAreas	aircraft	PohlAK22 [504], WangB20 [630], TranDRFWOVB16 [598], Fahimi16 [206], BajestaniB13 [42], LombardiM12 [407], BajestaniB11 [41], ArtiouchineB05 [34], FrankK05 [221], Simonis99 [560]	WangB23 [631], GombolayWS18 [255], Ham18 [275], Simonis07 [561], SakkoutW00 [531], Simonis95a [558]	PrataAN23 [511], PovedaAA23 [508], Adelgren2023 [7], ElciOH22 [196], EtminaniesfahaniGNMS22 [203], ZarandiASC20 [656], HauderBRPA20 [285], abs-1902-09244 [284], Hooker19 [314], LaborieRSV18 [374], HookerH17 [316], TranAB16 [596], Lombardi10 [400], Laborie09 [372], KovacsB08 [357], KrogLPHJ07 [610], MartinPY01 [429], SimonisCK00 [562], GruianK98 [266], Darby-DowmanLMZ97 [164], Wallace96 [627], Simonis95 [559], SimonisC95 [563]
ApplicationAreas	automotive		GuoZ23 [271], YuraszeckMPV22 [652], EmdeZD22 [200], Groleaz21 [263], LimtanyakulS12 [395], SunLYL10 [569], Lombardi10 [400], BarlattCG08 [52], SchildW00 [534]	PovedaAA23 [508], CzerniachowskaWZ23 [160], NaderiRR23 [462], NaderiBZ22 [459], NaderiBZ22a [458], AntuoriHHEN21 [22], HubnerGSV21 [320], VlkHT21 [625], AbreuAPNM21 [167], KoehlerBFFHPSSS21 [350], BarzegaranZP20 [61], abs-1911-04766 [237], GeibingerMM19 [238], BonfiettiZLM16 [113], Siala15 [553], Siala15a [554], SchnellH15 [535], AlesioNBG14 [182], HarjunkoskiMBC14 [281], BeniniBGM06 [88], KovacsV06 [362], Wallace96 [627]
ApplicationAreas	cable tree	KoehlerBFFHPSSS21 [350]		
ApplicationAreas	car manufacturing		AntuoriHHEN21 [22]	BeldiceanuC94 [78]
ApplicationAreas	container terminal	QinDCS20 [514], SacramentoSP20 [528]	LaborieRSV18 [374]	abs-2312-13682 [499], PerezGSL23 [498], TouatBT22 [594], CauwelaertDS20 [143], WallaceY20 [629], ZarandiASC20 [656], FallahiAC20 [210], Hooker19 [314], CauwelaertDMS16 [141], Dejemeppe16 [173], DejemeppeCS15 [174], NovasH12 [478], CorreaLR07 [159], LimRX04 [391]
ApplicationAreas	crew-scheduling	ZarandiASC20 [656], PourDERB18 [507]	BourreauGGLT22 [119], Zahout21 [654], GombolayWS18 [255], Mason01 [431], Touraivane95 [595]	NaderiRR23 [462], WangB23 [631], Adelgren2023 [7], NaderiBZ22a [458], NaderiBZ22 [459], ElciOH22 [196], EtminaniesfahaniGNMS22 [203], HeinzNVH22 [297], Lemos21 [383], MokhtarzadehTNF20 [445], TangLWSK18 [576], HookerH17 [316], DoulabiRP16 [191], LipovetzkyBPS14 [396], HachemiGR11 [274], MilanoW09 [443], WuBB09 [645], MilanoW06 [442], BeldiceanuC02 [79], JainG01 [325], SimonisCK00 [562]
ApplicationAreas	dairies			Bartak02 [54], Bartak02a [53]
ApplicationAreas	dairy	EscobetPQPRA19 [202]	PrataAN23 [511], HarjunkoskiMBC14 [281]	Groleaz21 [263]
ApplicationAreas	datacenter	HermenierDL11 [302]		Zahout21 [654], GalleguillosKSB19 [227], Madi-WambaLOBM17 [420], Letort13 [384], IfrimOS12 [322], LetortBC12 [385]
ApplicationAreas	datacentre		HurleyOS16 [321]	
ApplicationAreas	day-ahead market			
ApplicationAreas	deep space			HebrardALLCMR22 [287]

Table 16: Works for Concepts of Type ApplicationAreas

Type	Keyword	High	Medium	Low
ApplicationAreas	drone	MontemanniD23a [448], MontemanniD23 [449], Ham18 [275]		Adelgren2023 [7], ShaikhK23 [549], GuoZ23 [271], JuvinHL23a [333], EmdeZD22 [200], Astrand21 [35], Astrand0F21 [36], AntuoriHHEN21 [22], ZarandiASC20 [656], Ham18a [276]
ApplicationAreas	earth observation	SquillaciPR23 [566], KucukY19 [370], VerfaillieL01 [613]	BensanaLV99 [91]	HebrardHJMPV16 [288], PraletLJ15 [510], SimoninAHL15 [557], KelarevaTK13 [342], OddiPCC03 [484]
ApplicationAreas	earth orbit			SquillaciPR23 [566]
ApplicationAreas	electroplating		RodosekW98 [520]	Fatemi-AnarakiTFV23 [213], EfthymiouY23 [195], WallaceY20 [629], NovasH12 [478]
ApplicationAreas	emergency service		EvenSH15a [205], TopalogluO11 [592]	ForbesHJST24 [218], EvenSH15 [204], SakkoutW00 [531]
ApplicationAreas	energy-price	GrimesIOS14 [262], IfrimOS12 [322]	HurleyOS16 [321], Froger16 [224]	PrataAN23 [511], EscobetPQPRA19 [202], He0GLW18 [286], BenediktSMVH18 [87], LimHTB16 [392]
ApplicationAreas	farming			WinterMMW22 [637], Astrand0F21 [36]
ApplicationAreas	forestry	HachemiGR11 [274]		Astrand0F21 [36]
ApplicationAreas	hoist	EfthymiouY23 [195], WallaceY20 [629], RodosekW98 [520]	Fatemi-AnarakiTFV23 [213], NovasH12 [478], BonfiettiLBM11 [107]	AstrandJZ18 [37], BonfiettiLBM14 [109], BonfiettiM12 [112], BonfiettiLBM12 [108], LombardiBMB11 [402], Wallace06 [628], BeckR03 [70], Baptiste02 [44], KorbaaYG99 [353], PapaB98 [494]
ApplicationAreas	medical	ShinBBHO18 [552], Dejemeppe16 [173], WangMD15 [632], Wolf11 [640], TopalogluO11 [592]	GuoZ23 [271], ZarandiASC20 [656], HechingH16 [290], DejemeppeD14 [175], RendlPHPR12 [518]	ShaikhK23 [549], AbreuPNF23 [3], IsikYA23 [323], AbreuNP23 [169], AkramNHRSA23 [13], YunusogluY22 [650], FarsiTM22 [212], AbreuN22 [168], GeibingerKKMMW21 [236], Bedhief21 [74], Lemos21 [383], AbreuAPNM21 [167], ThomasKS20 [588], FallahiAC20 [210], FrimodigS19 [223], abs-1902-01193 [14], Novas19 [476], GurEA19 [672], YounespourAKE19 [647], CappartTSR18 [131], HoYCLLC18 [305], TanT18 [574], GedikKEK18 [235], TranVNB17a [602], RoshanaeiLAU17 [524], TranVNB17 [601], DoulabiRP16 [191], BridiBLMB16 [121], BoothNB16 [115]... (Total: 36)
ApplicationAreas	nurse	GurPAE23 [272], FarsiTM22 [212], ZarandiASC20 [656], abs-1902-01193 [14], ShinBBHO18 [552], HoYCLLC18 [305], LuoVLBM16 [417], WangMD15 [632], RendlPHPR12 [518], Menana11 [434], Wolf11 [640], Simonis07 [561], Mason01 [431]	OuelletQ22 [488], GeibingerKKMMW21 [236], GeibingerMM21 [239], YounespourAKE19 [647], FrohnerTR19 [225], RoshanaeiLAU17 [524]	abs-2312-13682 [499], PerezGSL23 [498], NaderiBZ22a [458], NaderiBZ22 [459], BourreauGGLT22 [119], FallahiAC20 [210], RoshanaeiBAUB20 [523], FrimodigS19 [223], German18 [242], GedikKEK18 [235], NishikawaSTT18a [473], MusliuSS18 [457], HookerH17 [316], Dejemeppe16 [173], DoulabiRP16 [191], DoulabiRP14 [190], TopalogluO11 [592], Simonis99 [560]
ApplicationAreas	offshore		SubulanC22 [567], Froger16 [224]	BoudreaultSLQ22 [118], BlomPS16 [100], BlomBPS14 [99], Jans09 [326]
ApplicationAreas	operating room	NaderiRR23 [462], GurPAE23 [272], FarsiTM22 [212], NaderiBZ22 [459], RoshanaeiBAUB20 [523], YounespourAKE19 [647], GurEA19 [672], RoshanaeiLAU17 [524], DoulabiRP16 [191], WangMD15 [632], DoulabiRP14 [190], Wolf11 [640]	GuoZ23 [271], NaderiBZ22a [458], ElciOH22 [196], ZarandiASC20 [656], Hooker19 [314], HookerH17 [316]	ForbesHJST24 [218], WangB23 [631], PerezGSL23 [498], abs-2312-13682 [499], JuvinHL23a [333], Adelgren2023 [7], GeibingerMM21 [239], TanT18 [574], MusliuSS18 [457], Wolf09 [642]
ApplicationAreas	oven scheduling	LacknerMMWW23 [376], LacknerMMWW21 [375]		ColT22 [161]
ApplicationAreas	patient	GurPAE23 [272], FarsiTM22 [212], RoshanaeiBAUB20 [523], ThomasKS20 [588], FrimodigS19 [223], GurEA19 [672], YounespourAKE19 [647], ShinBBHO18 [552], CappartTSR18 [131], RoshanaeiLAU17 [524], HechingH16 [290], Dejemeppe16 [173], DoulabiRP16 [191], WangMD15 [632], DejemeppeD14 [175], RendlPHPR12 [518], Wolf11 [640], TopalogluO11 [592]	GeibingerKKMMW21 [236]	BonninMNE24 [114], ForbesHJST24 [218], GuoZ23 [271], AlfieriGPS23 [15], NaderiBZ22 [459], ElciOH22 [196], AbreuAPNM21 [167], CauwelaertDS20 [143], MurinR19 [454], Hooker19 [314], HoYCLLC18 [305], TanT18 [574], GombolayWS18 [255], LouieVNB14 [414], DoulabiRP14 [190], Clercq12 [170], Malapert11 [422], Wolf09 [642], Simonis07 [561], KanetAG04 [341]
ApplicationAreas	perfect-square	BeldiceanuCDP11 [80], BeldiceanuCP08 [81], AggounB93 [9]		

Table 16: Works for Concepts of Type ApplicationAreas

Type	Keyword	High	Medium	Low
ApplicationAreas	physician	GeibingerKKMMW21 [236], ShinBBHO18 [552]	Dejemeppe16 [173]	GurPAE23 [272], GuoZ23 [271], FarsiTM22 [212], FrimodigS19 [223], HookerH17 [316], WangMD15 [632], Wolf11 [640], TopalogluO11 [592]
ApplicationAreas	pipeline	HarjunoskiMBC14 [281], BegB13 [75], LopesCSM10 [411], Lombardi10 [400], RuggieroBBMA09 [527], MouraSCL08a [451], Malik08 [426], MouraSCL08 [452], BeniniLMR08 [89], ErtIK91 [201]	ZouZ20 [671], TangLWSK18 [576], LombardiMRB10 [410], MalikMB08 [427], BeniniBGM06 [88], WolinskiKG04 [643], BeldiceanuC94 [78]	EfthymiouY23 [195], Adelgren2023 [7], PopovicCGNC22 [506], EmdeZD22 [200], HanenKP21 [279], NishikawaSTT19 [474], NishikawaSTT18a [473], LaborieRSV18 [374], NishikawaSTT18 [472], BlomPS16 [100], Bonfietti16 [106], GilesH16 [245], GoelSHFS15 [250], SimoninAHL15 [557], BonfiettiLBM14 [109], LombardiMB13 [409], BeniniLMR11 [90], NovasH10 [477], BarlattCG08 [52], KuchcinskiW03 [368], Wolf03 [638], Simonis99 [560], GruianK98 [266], Darby-DowmanLMZ97 [164], SimonisC95 [563], Simonis95a [558], HookerH17 [316]
ApplicationAreas	radiation therapy	FrimodigS19 [223]		
ApplicationAreas	railway	SvancaraB22 [571], Lemos21 [383], PourDERB18 [507], CappartS17 [130], Acuna-AgostMFG09 [5], AronssonBK09 [29], Rodriguez07 [522], Geske05 [243], RodriguezDG02 [521], MartinPY01 [429], LammaMM97 [379]	ZarandiASC20 [656], LaborieRSV18 [374], TangLWSK18 [576], Mason01 [431], BrusoniCLMMT96 [124]	GuoZ23 [271], LuoB22 [418], Godet21a [248], BogaerdTW19 [609], Hooker19 [314], BajestaniB15 [43], ZhouGL15 [666], BajestaniB13 [42], BajestaniB11 [41], WuBB09 [645], AbriSB05 [4], Wallace96 [627]
ApplicationAreas	real-time pricing		He0GLW18 [286], GrimesIOS14 [262]	LimHTB16 [392]
ApplicationAreas	rectangle-packing	YangSS19 [646], AggounB93 [9]	LuoB22 [418], Malapert11 [422]	MossigeGSMC17 [450], DoulabiRP16 [191], Siala15 [553], VilimLS15 [623], Siala15a [554], BeldiceanuCDP11 [80], Schutt11 [536], SchuttW10 [546], BeldiceanuCP08 [81]
ApplicationAreas	robot	Fatemi-AnarakiTFV23 [213], IsikYA23 [323], LiFJZLL22 [389], ArmstrongGOS21 [26], Astrand21 [35], KoehlerBFFHPSSS21 [350], ZarandiASC20 [656], MokhtarzadehTNF20 [445], Lunardi20 [416], WessenCS20 [635], MurinR19 [454], abs-1901-07914 [77], BehrensLM19 [76], GombolayWS18 [255], LaborieRSV18 [374], MossigeGSMC17 [450], TranVNB17 [601], TranVNB17a [602], BoothNB16 [115], LouieVNB14 [414], NovasH14 [479], NovasH12 [478], BartakSR10 [58], BidotVLB09 [94], ValleMGTO3 [607], BeckF98 [67]	PrataAN23 [511], CzerniachowskaWZ23 [160], ZhuSZW23 [668], Mehdizadeh-Somarin23 [432], TouatBT22 [594], YunusogluY22 [650], NaderiBZ22a [458], OujanaAYB22 [489], Astrand0F21 [36], WallaceY20 [629], WikarekS19 [636], NishikawaSTT19 [474], NishikawaSTT18a [473], NishikawaSTT18 [472], Dejemeppe16 [173], VanczaM01 [612], BeckF00 [68], Beck99 [62]	abs-2305-19888 [298], AbreuPNF23 [3], MontemanniD23 [449], HeinzNVH22 [297], GeitzGSSW22 [240], FarsiTM22 [212], MullerMKP22 [453], ColT22 [161], YuraszeckMPV22 [652], HamPK21 [277], ZhangYW21 [661], Godet21a [248], Bedhief21 [74], Groleaz21 [263], VlkHTT21 [625], FallahiAC20 [210], MengZRZL20 [437], BenediktMH20 [86], MejiaY20 [433], AstrandJJ20 [38], BarzegaranZP20 [61], Novas19 [476], ZhangW18 [662], GokgurHO18 [251], Ham18a [276], Ham18 [275], TanT18 [574], AstrandJZ18 [37], TranWDRFOVB16 [603]... (Total: 61)
ApplicationAreas	satellite	SquillaciPR23 [566], Godet21a [248], GodetLHS20 [249], KucukY19 [370], LaborieRSV18 [374], HebrardHJMPV16 [288], PraletLJ15 [510], KelarevaTK13 [342], VerfaillieL01 [613], BensanaLV99 [91], PembertonG98 [496]	Laborie09 [372], FrankK05 [221]	EfthymiouY23 [195], TouatBT22 [594], Astrand21 [35], Astrand0F21 [36], Zahout21 [654], ZarandiASC20 [656], Hooker19 [314], TranVNB17 [601], Pralet17 [509], TranWDRFOVB16 [603], Froger16 [224], SimoninAHL15 [557], BessiereHMQW14 [93], HeinzSB13 [296], GuyonLPR12 [273], SimoninAHL12 [556], RuggieroBBMA09 [527], Rodriguez07 [522], OddiPCC03 [484], NuijtenP98 [481]
ApplicationAreas	semiconductor	ZarandiASC20 [656], MalapertN19 [425], NattaDYW19 [467], Ham18a [276], BajestaniB15 [43], NovasH12 [478]	PenzDN23 [497], QinWSLS21 [513], GokgurHO18 [251], HamC16 [278], LombardiMRB10 [410], Davenport10 [165], KrogtLPHJ07 [610], JainM99 [324]	LacknerMMWW23 [376], Fatemi-AnarakiTFV23 [213], YuraszeckMPV22 [652], abs-2211-14492 [568], MullerMKP22 [453], ColT22 [161], EmdeZD22 [200], ZhangJZL22 [659], FanXG21 [211], LacknerMMWW21 [375], HamPK21 [277], PandeyS21a [491], Astrand21 [35], TangB20 [575], MengZRZL20 [437], NattaFM20 [469], Novas19 [476], LaborieRSV18 [374], Ham18 [275], GrimesH15 [260], KoschB14 [355], HarjunoskiMBC14 [281], TerekhovTDB14 [583], Malapert11 [422], Lombardi10 [400]
ApplicationAreas	ship building			
ApplicationAreas	shipping line			QinDCS20 [514], LaborieRSV18 [374], KelarevaTK13 [342]
ApplicationAreas	steel cable			AalianPG23 [1]

Table 16: Works for Concepts of Type ApplicationAreas

Type	Keyword	High	Medium	Low
ApplicationAreas	steel mill	GaySS14 [234], Letort13 [384], HeinzSSW12 [294], SchausHMCMD11 [533], HentenryckM08 [301], GarganiR07 [228]		abs-2312-13682 [499], PerezGSL23 [498], DoulabiRP16 [191], MenciaSV13 [436], MenciaSV12 [435]
ApplicationAreas	super-computer	BorghesiBLMB18 [116], BridiBLMB16 [121], BartoliniBBLM14 [60]		LuoB22 [418], GalleguillosKSB19 [227], Dejemeppe16 [173], HurleyOS16 [321]
ApplicationAreas	surgery	GurPAE23 [272], FarsiTM22 [212], RoshanaeiBAUB20 [523], GurEA19 [672], YounespourAKE19 [647], RoshanaeiLAU17 [524], DoulabiRP16 [191], WangMD15 [632], DoulabiRP14 [190], Wolf11 [640], Wolf09 [642]	ZarandiASC20 [656], TopalogluO11 [592]	ForbesHJST24 [218], AlfieriGPS23 [15], NaderiBZ22 [459], ElciOH22 [196], Lemos21 [383], FrimodigS19 [223]
ApplicationAreas	torpedo	GoldwaserS18 [253], GoldwaserS17 [252], KletzanderM17 [349]	AntuoriHHEN20 [21]	Hooker19 [314]
ApplicationAreas	vaccine		GuoZ23 [271]	BonninMNE24 [114], JuvinHL23a [333]
ApplicationAreas	yard crane		QinDCS20 [514], Hooker19 [314]	EmdeZD22 [200], WallaceY20 [629]

7.7 Concept Type Industries

Table 17: Works for Concepts of Type Industries

Type	Keyword	High	Medium	Low
Industries	IT industry			SchnellH15 [535]
Industries	PCB industry			
Industries	aerospace industry			SchildW00 [534]
Industries	agricultural industry	WinterMMW22 [637]		
Industries	agrifood industry			Groleaz21 [263]
Industries	airline industry			HachemiGR11 [274], Mason01 [431]
Industries	automobile industry			HauderBRPA20 [285], abs-1902-09244 [284], Limtanyakul07 [394]
Industries	automotive industry		GuoZ23 [271], LimtanyakulS12 [395]	CzerniachowskaWZ23 [160], EmdeZD22 [200], AntuoriHHEN21 [22], BonfiettiZLM16 [113], SchildW00 [534], Wallace96 [627]
Industries	aviation industry			
Industries	cable industry			ZhuSZW23 [668]
Industries	carpet industry			Schutt11 [536]
Industries	chemical industry		Timpe02 [590]	LaborieRSV18 [374], GilesH16 [245], HarjunkoskiMBC14 [281], LombardiM12 [407], ChenGPSH10 [147], PoderBS04 [503], Simonis99 [560], Simonis95a [558]
Industries	chemical processing in- dustry			GilesH16 [245]
Industries	chemistry industry			ChenGPSH10 [147]
Industries	chips industry			AbreuN22 [168]
Industries	circuit boards industry			MokhtarzadehTNF20 [445]
Industries	control system industry			BonfiettiZLM16 [113]
Industries	cutting industry			RiahiNS018 [519]
Industries	dairy industry		EscobetPQPRA19 [202], HarjunkoskiMBC14 [281]	Groleaz21 [263]
Industries	dismantling industry			HubnerGSV21 [320]
Industries	drawing industry			Simonis95a [558]
Industries	electricity industry	Froger16 [224]		PopovicCGNC22 [506], Godet21a [248], AntunesABD20 [20], AntunesABD18 [19]
Industries	electricity industry			
Industries	electronics industry			LacknerMMWW23 [376], LacknerMMWW21 [375]
Industries	electroplating industry			NovasH12 [478]
Industries	energy industry		Froger16 [224]	KovacsV06 [362]
Industries	fashion industry			Jans09 [326]
Industries	food industry		Groleaz21 [263]	Fatemi-AnarakiTFV23 [213], OujanaAYB22 [489], GroleazNS20 [265], GroleazNS20a [264], EscobetPQPRA19 [202], HachemiGR11 [274], SimonisCK00 [562], Simonis99 [560], SimonisC95 [563], Simonis95 [559]
Industries	food-processing industry			KlankeBYE21 [348], HauderBRPA20 [285], abs-1902-09244 [284]
Industries	forest industry			HachemiGR11 [274]
Industries	forging industry			LuoB22 [418]
Industries	foundry industry			Jans09 [326]
Industries	garment industry			GuoZ23 [271]
Industries	gas industry			ZarandiASC20 [656], GoelSHFS15 [250]
Industries	glass industry			Lunardi20 [416], LunardiBLRV20 [415], abs-1902-09244 [284]
Industries	heavy industry			CorreaLR07 [159]
Industries	insulation industry			YunusogluY22 [650]
Industries	leisure industry			
Industries	lumber industry			NattafDYW19 [467]

Table 17: Works for Concepts of Type Industries

Type	Keyword	High	Medium	Low
Industries	manufacturing industry			PrataAN23 [511], CzerniachowskaWZ23 [160], LacknerMMWW23 [376], WinterMMW22 [637], YuraszeckMPV22 [652], LacknerMMWW21 [375], FanXG21 [211], TangB20 [575], Mercier-AubinGQ20 [439], EscobetPQPRA19 [202], GedikKEK18 [235]
Industries	maritime industry			Astrand21 [35], QinDCS20 [514], SacramentoSP20 [528]
Industries	metal industry			LuoB22 [418]
Industries	metalworking industry			
Industries	mineral industry			Astrand21 [35], Astrand0F21 [36], AstrandJZ20 [38], BlomBPS14 [99]
Industries	mining industry		AalianPG23 [1]	abs-2402-00459 [471], CampeauG22 [129], Astrand21 [35], Astrand0F21 [36], AstrandJZ20 [38], ThiruvadyWGS14 [587]
Industries	nuclear industry			AbreuNP23 [169], AbreuAPNM21 [167], HarjunkskiMBC14 [281], LopesCSM10 [411]
Industries	oil industry			ArmstrongGOS21 [26]
Industries	packaging industry			RiahiNS018 [519]
Industries	painting industry			Dejemeppe16 [173], HarjunkskiMBC14 [281]
Industries	paper industry			LaborieRSV18 [374], GilesH16 [245], HarjunkskiMBC14 [281]
Industries	petro-chemical industry			YuraszeckMCCR23 [653], CzerniachowskaWZ23 [160], GeibingerKKMMW21 [236], HamC16 [278], NovaraNH16 [475], HarjunkskiMBC14 [281]
Industries	pharmaceutical industry			Astrand21 [35], Astrand0F21 [36], AstrandJZ20 [38], AstrandJZ18 [37]
Industries	potash industry			FrostD98 [226]
Industries	power industry	Froger16 [224]		BourreauGGLT22 [119]
Industries	printing industry	Lunardi20 [416]	LunardiBLRV20 [415]	Nattaf16 [463], BlomPS16 [100], HarjunkskiMBC14 [281], HeinzSSW12 [294], ChenGPSH10 [147], Jans09 [326], Simonis99 [560], Wallace96 [627]
Industries	process industry		Timpe02 [590]	Simonis99 [560], Wallace96 [627]
Industries	processing industry		HauderBRPA20 [285]	KlankeBYE21 [348], abs-1902-09244 [284], GilesH16 [245]
Industries	railway industry			Lemos21 [383], Geske05 [243]
Industries	repair industry			BoudreaultSLQ22 [118]
Industries	retail industry			ChapadosJR11 [146]
Industries	semiconductor industry			PenzDN23 [497], QinWSLS21 [513], NattafDYW19 [467], BajestaniB15 [43], GrimesH15 [260], NovasH12 [478], Lombardi10 [400], LombardiMRB10 [410], KrogtLPHJ07 [610], ChenGPSH10 [147]
Industries	semiprocess industry			GurEA19 [672], DoomsH08 [187]
Industries	service industry			BoudreaultSLQ22 [118]
Industries	ship repair industry			Astrand21 [35], SacramentoSP20 [528], QinDCS20 [514]
Industries	shipping industry			BartakS11 [57]
Industries	software industry			Novas19 [476]
Industries	solar cell industry			LacknerMMWW23 [376], KimCMLLP23 [347], IsikYA23 [323], OujanaAYB22 [489], LacknerMMWW21 [375], HauderBRPA20 [285], abs-1902-09244 [284], GoldwaserS18 [253], GoldwaserS17 [252], KletzanderM17 [349], HeinzSSW12 [294], SchausHMCMD11 [533], GrimesH10 [258], GarganiR07 [228]
Industries	steel industry		DavenportKRSH07 [166]	
Industries	steel making industry			
Industries	sugar industry			MartinPY01 [429]
Industries	taxi industry			Ham18 [275]
Industries	telecommunication industry			
Industries	textile industry	Mercier-AubinGQ20 [439]		ZarandiASC20 [656], BessiereHMQW14 [93]
Industries	tire industry			Jans09 [326]
Industries	tourism industry			LiuCGM17 [398]
Industries	trade industry			ParkUJR19 [495]

Table 17: Works for Concepts of Type Industries

Type	Keyword	High	Medium	Low
Industries	transportation industry			GoelSHFS15 [250]
Industries	wind industry	Froger16 [224]		

7.8 Concept Type Benchmarks

Table 18: Works for Concepts of Type Benchmarks

Type	Keyword	High	Medium	Low
Benchmarks	CSPLib	Siala15a [554], Siala15 [553], SchausHMCMD11 [533], GarganiR07 [228]	LaborieRSV18 [374], German18 [242], CappartTSR18 [131], MossigeGSMC17 [450], NovaraNH16 [475], Letort13 [384], HeinzSSW12 [294], BandaSC11 [171]	ThomasKS20 [588], LiuLH19 [397], GelainPRVW17 [241], GaySS14 [234], RendlPHPR12 [518], HentenryckM08 [301]
Benchmarks	Roadef	Froger16 [224], Siala15 [553], Siala15a [554]	Nattaf16 [463], LetortCB15 [387], Kameugne14 [335], Letort13 [384], LetortCB13 [386], LetortBC12 [385]	CzerniachowskaWZ23 [160], HanenKP21 [279], Lemos21 [383], Polo-MejiaALB20 [505], MalapertN19 [425], Tesch18 [585], OuelletQ18 [487], Tesch16 [584], Fahimi16 [206], Menana11 [434], Acuna-AgostMFG09 [5], Wallace06 [628], Elkhyari03 [197]
Benchmarks	benchmark	JuvinHL23a [333], AbreuPNF23 [3], IsikYA23 [323], TardivoDFMP23 [577], AlfieriGPS23 [15], JuvinHHL23 [330], LacknerMMWW23 [376], PovedaAA23 [508], Bit-Monnot23 [96], AfsarVPG23 [8], abs-2306-05747 [579], YuraszeckMCCR23 [653], ShaikhK23 [549], ZhuSZW23 [668], NaderiRR23 [462], TasselGS23 [578], AbreuNP23 [169], OuelletQ22 [488], ColT22 [161], MullerMKP22 [453], WinterMMW22 [637], NaderiBZ22a [458], JuvinHL22 [331], Teppan22 [581], BoudreaaultSLQ22 [118], ZhangJZL22 [659], abs-2211-14492 [568], TouatBT22 [594], AbreuN22 [168]... (Total: 107)	ForbesHJST24 [218], abs-2402-00459 [471], AkramNHRSA23 [13], YuraszeckMC23 [651], MontemanniD23a [448], KameugneFND23 [338], abs-2305-19888 [298], NaderiBZ22 [459], ZhangBB22 [660], FetgoD22 [215], OujanaAYB22 [489], BourreauGGLT22 [119], HeinzNVH22 [297], AbreuAPNM21 [167], Astrand21 [35], KovacsTKSG21 [363], MengZRZL20 [437], Lunardi20 [416], MejiaY20 [433], SacramentoSP20 [528], BenediktMH20 [86], BadicaBI20 [39], AntuoriHHEN20 [21], GroleazNS20 [265], ArkhipovBL19 [25], GeibingerMM19 [238], Novas19 [476], NishikawaSTT19 [474], ArbaouiY18 [24]... (Total: 87)	PrataAN23 [511], BonninMNE24 [114], CzerniachowskaWZ23 [160], MontemanniD23 [449], GuoZ23 [271], EfthymiouY23 [195], KimCMLLP23 [347], Adelgren2023 [7], SquillaciPR23 [566], SvancaraB22 [571], JungblutK22 [329], ElciOH22 [196], PohlAK22 [504], SubulanC22 [567], YuraszeckMPV22 [652], YunusogluY22 [650], ArmstrongGOS22 [27], Astrand0F21 [36], VlkHT21 [625], HubnerGSV21 [320], Zahout21 [654], KlankeBYE21 [348], ArmstrongGOS21 [26], CauwelaertDS20 [143], AstrandJZ20 [38], LunardiBLRV20 [415], NattafM20 [469], ThomasKS20 [588], ZarandiASC20 [656]... (Total: 139)
Benchmarks	bitbucket		TardivoDFMP23 [577], Dejemeppe16 [173]	CauwelaertDS20 [143], ThomasKS20 [588], HoundjiSW19 [318], CappartTSR18 [131], CauwelaertLS18 [142], He0GLW18 [286], CappartS17 [130], CauwelaertDMS16 [141], GayHLS15 [231], DejemeppeCS15 [174], GayHS15a [233], GayHS15 [232], HoundjiSWD14 [319], DejemeppeD14 [175]
Benchmarks	generated instance	IsikYA23 [323], LuoB22 [418], abs-1911-04766 [237]	abs-2312-13682 [499], PerezGSL23 [498], Godet21a [248], GodetLHS20 [249], MejiaY20 [433], NattafALR16 [466], Dejemeppe16 [173], Madi-WambaB16 [419], KelbelH11 [343], SchausHMCMD11 [533]	abs-2402-00459 [471], abs-2305-19888 [298], EfthymiouY23 [195], Adelgren2023 [7], ColT22 [161], YunusogluY22 [650], TouatBT22 [594], BoudreaaultSLQ22 [118], YuraszeckMPV22 [652], HeinzNVH22 [297], ZhangBB22 [660], abs-2211-14492 [568], HanenKP21 [279], Astrand21 [35], AbohashimaEG21 [2], abs-2102-08778 [156], AbreuAPNM21 [167], GeibingerMM21 [239], Astrand0F21 [36], MokhtarzadehTNF20 [445], AntuoriHHEN20 [21], RoshanaeiBAUB20 [523], CauwelaertDS20 [143], LunardiBLRV20 [415], BenediktMH20 [86], ThomasKS20 [588], Lunardi20 [416], YangSS19 [646], GeibingerMM19 [238]... (Total: 60)
Benchmarks	github	Lemos21 [383], Godet21a [248], KoehlerBFFHPSSS21 [350]	PovedaAA23 [508], TardivoDFMP23 [577], JungblutK22 [329], BoudreaaultSLQ22 [118], HamPK21 [277], GodetLHS20 [249], BenediktMH20 [86], LunardiBLRV20 [415], Siala15a [554], Siala15 [553]	ForbesHJST24 [218], abs-2402-00459 [471], SquillaciPR23 [566], JuvinHHL23 [330], YuraszeckMCCR23 [653], Fatemi-AnarakiTFV23 [213], GuoZ23 [271], YuraszeckMC23 [651], Bit-Monnot23 [96], abs-2306-05747 [579], Adelgren2023 [7], NaderiRR23 [462], TasselGS23 [578], OuelletQ22 [488], ColT22 [161], MullerMKP22 [453], LuoB22 [418], YuraszeckMPV22 [652], EmdeZD22 [200], GeitzGSSW22 [240], KovacsTKSG21 [363], GeibingerMM21 [239], VlkHT21 [625], AbohashimaEG21 [2], Polo-MejiaALB20 [505], FallahiAC20 [210], Lunardi20 [416], WangB20 [630], MurinR19 [454]... (Total: 44)

Table 18: Works for Concepts of Type Benchmarks

Type	Keyword	High	Medium	Low
Benchmarks	gitlab		HeinzNVH22 [297]	abs-2305-19888 [298], BoudreaultSLQ22 [118], AntuoriHHEN21 [22], AntuoriHHEN20 [21]
Benchmarks	industrial instance	LuoB22 [418], AntuoriHHEN20 [21]	BonfiettiZLM16 [113], BonfiettiLBM14 [109], Schutt11 [536]	TasselGS23 [578], PovedaAA23 [508], EfthymiouY23 [195], abs-2306-05747 [579], OujanaAYB22 [489], GroleazNS20 [265], Mercier-AubinGQ20 [439], NattafM20 [469], Hooker19 [314], MalapertN19 [425], BofilGSV15 [105], BofilEGPSV14 [104], BonfiettiM12 [112], LombardiBMB11 [402], BonfiettiLBM11 [107]
Benchmarks	industrial partner	BoudreaultSLQ22 [118], Lunardi20 [416], Dejemeppe16 [173]	LacknerMMWW23 [376], ArmstrongGOS21 [26]	WinterMMW22 [637], VlkHT21 [625], LacknerMMWW21 [375], GroleazNS20a [264], AntunesABD20 [20], Mercier-AubinGQ20 [439], abs-1911-04766 [237], GeibingerMM19 [238], AntunesABD18 [19], MossigeGSMC17 [450], HebrardHJMPV16 [288], Froger16 [224], LipovetzkyBPS14 [396], LimtanyakulS12 [395], Malapert11 [422], KovacsV06 [362], KovacsV04 [361]
Benchmarks	industry partner	BurtLPS15 [125], LipovetzkyBPS14 [396]	BlomBPS14 [99]	LuoB22 [418], WinterMMW22 [637], ArmstrongGOS21 [26], HauderBRPA20 [285], abs-1902-09244 [284], AntunesABD18 [19], BlomPS16 [100]
Benchmarks	instance generator	LacknerMMWW23 [376], LacknerMMWW21 [375]	GoldwasserS18 [253], Froger16 [224]	abs-2402-00459 [471], ArmstrongGOS21 [26], Lunardi20 [416], abs-1911-04766 [237], Caballero19 [127], GombolayWS18 [255], YoungFS17 [648], GoldwasserS17 [252], Dejemeppe16 [173], GuyonLPR12 [273], Schutt11 [536], BeniniLMR11 [90], Lombardi10 [400], abs-1009-0347 [541], RuggieroBBMA09 [527], LombardiM09 [403], HeipckeCCS00 [299]
Benchmarks	random instance	LacknerMMWW21 [375], WallaceY20 [629], Dejemeppe16 [173]	WangB23 [631], LacknerMMWW23 [376], EfthymiouY23 [195], LetortCB15 [387], KelbelH11 [343]	Mehdizadeh-Somarin23 [432], Fatemi-AnarakiTFV23 [213], OuelletQ22 [488], EmdeZD22 [200], ElciOH22 [196], abs-2211-14492 [568], MullerMKP22 [453], KlankeBYE21 [348], VlkHT21 [625], Godet21a [248], HanenKP21 [279], AntuoriHHEN20 [21], BenediktMH20 [86], Lunardi20 [416], LunardiBLRV20 [415], HoundjiSW19 [318], BenediktSMVH18 [87], FahimiOQ18 [207], Hooker17 [313], MossigeGSMC17 [450], CappartS17 [130], Fahimi16 [206], Madi-WambaB16 [419], Siala15 [553], Siala15a [554], KameugneFSN14 [340], DerrienP14 [180], DerrienPZ14 [181], LetortCB13 [386]... (Total: 41)
Benchmarks	real-life	GurPAE23 [272], SubulanC22 [567], WinterMMW22 [637], Astrand21 [35], HubnerGSV21 [320], QinDCS20 [514], GurEA19 [672], WangMD15 [632], BartakSR10 [58], BartakCS10 [56], ChenGPSH10 [147], Baptiste02 [44], Bartak02a [53], MartinPY01 [429]	AfsarVPG23 [8], LacknerMMWW23 [376], OujanaAYB22 [489], Lemos21 [383], Astrand0F21 [36], LacknerMMWW21 [375], KlankeBYE21 [348], Lunardi20 [416], FallahiAC20 [210], abs-1911-04766 [237], PourDERB18 [507], MusliuSS18 [457], AmadiniGM16 [17], Froger16 [224], BartakV15 [59], GaySS14 [234], LimtanyakulS12 [395], MenciaSV12 [435], LombardiMRB10 [410], RuggieroBBMA09 [527], Tsang03 [605], JainM99 [324], NuijtenP98 [481], SimonisC95 [563], DincbasSH90 [185]	BonninMNE24 [114], ForbesHJST24 [218], PrataAN23 [511], AbreuPNF23 [3], IsikYA23 [323], EfthymiouY23 [195], Adelgren2023 [7], PovedaAA23 [508], CampeauG22 [129], LuoB22 [418], YuraszeckMPV22 [652], GeitzGSSW22 [240], ColT22 [161], NaderiBZ22 [459], Teppan22 [581], BoudreaultSLQ22 [118], YunusogluY22 [650], ElciOH22 [196], Godet21a [248], Bedhief21 [74], abs-2102-08778 [156], GeibingerMM21 [239], Groleaz21 [263], CauwelaertDS20 [143], GodetLHS20 [249], SacramentoSP20 [528], AstrandJZ20 [38], WallaceY20 [629], ZarandiASC20 [656]... (Total: 94)

Table 18: Works for Concepts of Type Benchmarks

Type	Keyword	High	Medium	Low
Benchmarks	real-world	abs-2305-19888 [298], HeinzNVH22 [297], YunusogluY22 [650], ColT22 [161], Lemos21 [383], Astrand21 [35], GeibingerMM21 [239], KoehlerBFFHPSSS21 [350], HauderBRPA20 [285], Lunardi20 [416], MokhtarzadehTNF20 [445], abs-1911-04766 [237], GeibingerMM19 [238], abs-1902-09244 [284], FrohnerTR19 [225], GombolayWS18 [255], Dejemeppe16 [173], MelgarejoLS15 [11], EvenSH15 [204], EvenSH15a [205], RendlPHPR12 [518], Lombardi10 [400], MouraSCL08a [451], Beck99 [62]	PrataAN23 [511], TasselGS23 [578], IsikYA23 [323], abs-2306-05747 [579], Fatemi-AnarakiTFV23 [213], AbreuNP23 [169], AalianPG23 [1], AbreuPNF23 [3], WangB23 [631], YuraszeckMCCR23 [653], OujanaAYB22 [489], LuoB22 [418], SvancaraB22 [571], MullerMKP22 [453], ArmstrongGOS21 [26], ZarandiASC20 [656], WallaceY20 [629], AntunesABD20 [20], RoshanaeiBAUB20 [523], WessenCS20 [635], TangB20 [575], AstrandJZ20 [38], ParkUJR19 [495], YounespourAKE19 [647], FrimodigS19 [223], LaborieRSV18 [374], PourDERB18 [507], ShinBBHO18 [552], RiahiNS018 [519]... (Total: 48)	abs-2402-00459 [471], abs-2312-13682 [499], KimCMLLP23 [347], JuvinHL23 [332], ZhuSZW23 [668], PerezGSL23 [498], GuoZ23 [271], ShaikhK23 [549], PovedaAA23 [508], AfsarVPG23 [8], Bit-Monnot23 [96], TardivoDFMP23 [577], CzerniachowskaWZ23 [160], GeitzGSSW22 [240], SubulanC22 [567], BourreauGGLT22 [119], EtminaniesfahaniGNMS22 [203], CampeauG22 [129], JungblutK22 [329], AbreuN22 [168], ArmstrongGOS22 [27], FetgoD22 [215], PohlAK22 [504], BoudreaultSLQ22 [118], GeibingerKKMMW21 [236], AbohashimaEG21 [2], KovacsTKSG21 [363], abs-2102-08778 [156], Astrand0F21 [36]... (Total: 122)
Benchmarks	supplementary material	GuoZ23 [271], FarsiTM22 [212], MejiaY20 [433], Lunardi20 [416]	AfsarVPG23 [8], MontemanniD23 [449], SchuttFSW13 [543]	abs-2306-05747 [579], JuvinHHL23 [330], TasselGS23 [578], Adelgren2023 [7], WinterMMW22 [637], ColT22 [161], BoudreaultSLQ22 [118], YunusogluY22 [650], KovacsTKSG21 [363], AntuoriHHEN21 [22], ArmstrongGOS21 [26], LacknerMMWW21 [375], MengZRZL20 [437], HauderBRPA20 [285], SchnellH15 [535], MenciaSV13 [436]
Benchmarks	zenodo	LacknerMMWW23 [376], SacramentoSP20 [528]		KimCMLLP23 [347], WinterMMW22 [637], ArmstrongGOS21 [26]

7.9 Concept Type Algorithms

Table 19: Works for Concepts of Type Algorithms

Type	Keyword	High	Medium	Low
Algorithms	GRASP	Lemos21 [383]	YuraszcekMCCR23 [653], PovedaAA23 [508], YunusogluY22 [650], RiahiNS018 [519]	LacknerMMWW23 [376], AkramNHSA23 [13], IsikYA23 [323], SquillaciPR23 [566], ArmstrongGOS22 [27], LacknerMMWW21 [375], Zahout21 [654], VlkHT21 [625], AntuoriHHEN21 [22], QinDCS20 [514], MejiaY20 [433], GroleazNS20a [264], Caballero19 [127], KreterSSZ18 [366], ZhouGL15 [666], Siala15 [553], Siala15a [554], SchnellH15 [535], SerraNM12 [548], HeinzB12 [292], Rodriguez07 [522], JainM99 [324]
Algorithms	IGT	ArmstrongGOS22 [27]		
Algorithms	NEH	AlferiGPS23 [15], ArmstrongGOS22 [27], Astrand21 [35], RiahiNS018 [519]		AbreuPNF23 [3], IsikYA23 [323], ZhouGL15 [666]
Algorithms	bi-partite matching			Caballero19 [127], HookerH17 [316], Simonis07 [561], Kumar03 [369], Simonis99 [560]
Algorithms	edge-finder	KameugneFND23 [338], FetgoD22 [215], GingrasQ16 [246], KameugneFSN14 [340], Lombardi10 [400], MercierH08 [438], BaptisteP00 [49]	OuelletQ13 [486], KelbelH11 [343], PapaB98 [494]	BaptisteB18 [46], BonfiettiZLM16 [113], Kameugne14 [335], GuSS13 [267], Schutt11 [536], SchuttFSW11 [542], HeckmanB11 [291], BidotVLB09 [94], MilanoW09 [443], SchuttFSW09 [540], BeckW07 [73], MilanoW06 [442], BeckW05 [72], BeckR03 [70], ValleMGTO3 [607], SakkoutW00 [531], JainM99 [324], Zhou97 [665], BaptisteP97 [48]
Algorithms	edge-finding	KameugneFND23 [338], JuvinHHL23 [330], TardivoDFMP23 [577], OuelletQ22 [488], FetgoD22 [215], CauwelaertDS20 [143], YangSS19 [646], Caballero19 [127], GokgurHO18 [251], FahimiOQ18 [207], BaptisteB18 [46], KreterSS17 [365], HookerH17 [316], Fahimi16 [206], Nattaf16 [463], Dejemeppe16 [173], Derrien15 [179], GayHS15a [233], Kameugne15 [336], GrimesH15 [260], KameugneFSN14 [340], Kameugne14 [335], Letort13 [384], OuelletQ13 [486], SchuttFS13a [538], Clercq12 [170], Malapert11 [422], KameugneFSN11 [339], Vilim11 [620]... (Total: 50)	BoudreaultSLQ22 [118], LaborieRSV18 [374], Tesch18 [585], GingrasQ16 [246], CauwelaertDMS16 [141], LetortCB15 [387], DejemeppeCS15 [174], Siala15a [554], Siala15 [553], MenciaSV13 [436], LetortCB13 [386], LetortBC12 [385], LombardiM12 [407], Lombardi10 [400], BartakSR10 [58], LiessM08 [390], HoeveGSL07 [611], MonetteDD07 [446], Vilim04 [616], Bartak02 [54], SchildW00 [534], Zhou97 [665]	BonninMNE24 [114], CampeauG22 [129], Groleaz21 [263], Astrand21 [35], Godet21a [248], WallaceY20 [629], OuelletQ18 [487], GombolayWS18 [255], CauwelaertLS18 [142], NattafAL17 [465], Tesch16 [584], SialaAH15 [555], GayHLS15 [231], DerrienP14 [180], GuSS13 [267], HeinzSB13 [296], OzturkTHO13 [490], ChuGNSW13 [148], MenciaSV12 [435], LimtanyakulS12 [395], MalapertCGJLR12 [423], HeckmanB11 [291], KovacsB11 [358], SimonisH11 [564], BeldiceanuCDP11 [80], KelbelH11 [343], GrimesH11 [259], SchuttW10 [546], GrimesH10 [258]... (Total: 58)
Algorithms	energetic reasoning	TardivoDFMP23 [577], OuelletQ22 [488], FetgoD22 [215], HanenKP21 [279], OuelletQ18 [487], Tesch18 [585], CauwelaertLS18 [142], NattafAL17 [465], NattafALR16 [466], Fahimi16 [206], Tesch16 [584], GayHS15a [233], NattafAL15 [464], DerrienP14 [180], SchuttFS13a [538], LimtanyakulS12 [395], HeinzS11 [295], Vilim11 [620], Lombardi10 [400], Laborie03 [371], Baptiste02 [44]	KameugneFND23 [338], NattafHKAL19 [468], KameugneFGOQ18 [337], Nattaf16 [463], Kameugne14 [335], Letort13 [384], SchuttFS13 [539], Schutt11 [536]	IsikYA23 [323], BoudreaultSLQ22 [118], ArmstrongGOS21 [26], Caballero19 [127], YangSS19 [646], GokgurHO18 [251], Laborie18a [373], BofillCSV17 [103], HookerH17 [316], GingrasQ16 [246], LetortCB15 [387], Derrien15 [179], KameugneFSN14 [340], LetortCB13 [386], OuelletQ13 [486], MenciaSV13 [436], Clercq12 [170], LombardiM12 [407], MenciaSV12 [435], GuyonLPR12 [273], LahimerLH11 [377], Malapert11 [422], ClercqPB11 [152], BeldiceanuCDP11 [80], ChenGPSH10 [147], abs-0907-0939 [501], Vilim09 [618], Vilim09a [619], Limtanyakul07 [394]... (Total: 35)
Algorithms	max-flow		LopesCSM10 [411], MouraSCL08 [452], Muscettola02 [456]	FanXG21 [211], ZarandiASC20 [656], HoundjiSW19 [318], Fahimi16 [206], Froger16 [224], Kumar03 [369]

Table 19: Works for Concepts of Type Algorithms

Type	Keyword	High	Medium	Low
Algorithms	not-first	KameugneFND23 [338], FahimiOQ18 [207], KameugneFGOQ18 [337], Fahimi16 [206], Dejemeppe16 [173], GayHS15a [233], Kameugne14 [335], Clercq12 [170], Schutt11 [536], Malapert11 [422], SchuttFSW11 [542], VilimBC05 [622], ArtiouchineB05 [34], Demassey03 [176], Baptiste02 [44], Beck99 [62]	TardivoDFMP23 [577], FetgoD22 [215], GokgurHO18 [251], OuelletQ18 [487], HookerH17 [316], DejemeppeCS15 [174], Kameugne15 [336], KameugneFSN14 [340], Letort13 [384], OuelletQ13 [486], Lombardi10 [400], SchuttW10 [546], BartakSR10 [58], MonetteDD07 [446], VilimBC04 [621], Wolf03 [638], BeckF00 [68], TorresL00 [593]	JuvinHHL23 [330], BoudreaultSLQ22 [118], OuelletQ22 [488], Astrand21 [35], Groleaz21 [263], CauwelaertDS20 [143], CauwelaertLS18 [142], Tesch16 [584], CauwelaertDMS16 [141], GrimesH15 [260], ChuGNSW13 [148], MalapertCGJLR12 [423], LintanyakulS12 [395], KameugneFSN11 [339], Vilim09 [618], Wolf09 [642], Wolf05 [639], Laborie03 [371], SourdN00 [565]
Algorithms	not-last	KameugneFND23 [338], TardivoDFMP23 [577], KameugneFGOQ18 [337], FahimiOQ18 [207], OuelletQ18 [487], Fahimi16 [206], Dejemeppe16 [173], GayHS15a [233], Kameugne14 [335], Clercq12 [170], Malapert11 [422], Schutt11 [536], SchuttW10 [546], ArtiouchineB05 [34], SchuttWS05 [547], Vilim05 [617], VilimBC05 [622], Vilim04 [616], Wolf03 [638], Demassey03 [176], Baptiste02 [44], Beck99 [62]	FetgoD22 [215], CauwelaertDS20 [143], GokgurHO18 [251], Tesch18 [585], Kameugne15 [336], DejemeppeCS15 [174], KameugneFSN14 [340], SchuttFS13a [538], OuelletQ13 [486], Letort13 [384], SchuttFSW11 [542], Vilim11 [620], KameugneFSN11 [339], Lombardi10 [400], BartakSR10 [58], MonetteDD07 [446], Wolf05 [639], VilimBC04 [621], TorresL00 [593], BeckF00 [68]	JuvinHHL23 [330], BoudreaultSLQ22 [118], GeitzGSSW22 [240], OuelletQ22 [488], Astrand21 [35], Groleaz21 [263], GodetLHS20 [249], YangSS19 [646], CauwelaertLS18 [142], HookerH17 [316], CauwelaertDMS16 [141], Tesch16 [584], GrimesH15 [260], ChuGNSW13 [148], LintanyakulS12 [395], MalapertCGJLR12 [423], ChenGPSH10 [147], Wolf09 [642], MonetteDH09 [447], Vilim09a [619], GrimesHM09 [261], Vilim09 [618], BocewiczBB09 [101], WolfS05 [641], Laborie03 [371], Vilim03 [615]
Algorithms	sweep	Tesch18 [585], BonfiettiZLM16 [113], NattafALR16 [466], Tesch16 [584], LetortCB15 [387], Derrien15 [179], SimoninAHL15 [557], NattafAL15 [464], GayHS15 [232], DerrienPZ14 [181], Letort13 [384], LetortCB13 [386], Clercq12 [170], LetortBC12 [385], SimoninAHL12 [556], ClercqPBJ11 [152], Malapert11 [422], abs-0907-0939 [501], BeldiceanuP07 [82], Wolf05 [639], Wolf03 [638], BeldiceanuC02 [79]	ArkipovBL19 [25], FahimiOQ18 [207], GoldwaserS18 [253], GayHS15a [233], Schutt11 [536], AronssonBK09 [29], PoderB08 [502], WolfS05 [641]	BonninMNE24 [114], KameugneFND23 [338], TardivoDFMP23 [577], HebrardALLCMR22 [287], GeitzGSSW22 [240], OuelletQ22 [488], FetgoD22 [215], Godet21a [248], FallahiAC20 [210], HoundjiSW19 [318], KameugneFGOQ18 [337], CauwelaertLS18 [142], Madi-WambaLOBM17 [420], Fahimi16 [206], Nattaf16 [463], GingrasQ16 [246], Dejemeppe16 [173], BartakV15 [59], EvenSH15 [204], EvenSH15a [205], DerrienP14 [180], BonfiettiLBM14 [109], GaySS14 [234], OuelletQ13 [486], SimonisH11 [564], BeldiceanuCDP11 [80], Vilim11 [620], Lombardi10 [400], LombardiM10a [404]... (Total: 37)
Algorithms	time-tabling	ShaikhK23 [549], TardivoDFMP23 [577], OuelletQ22 [488], Lemos21 [383], DemirovicS18 [178], FahimiOQ18 [207], Fahimi16 [206], GayHS15a [233], Kameugne14 [335], OuelletQ13 [486], Letort13 [384], GuyonLPR12 [273], HeinzS11 [295], Menana11 [434], KanetAG04 [341], Laborie03 [371], ElkhyariGJ02a [199], Wallace96 [627]	Astrand21 [35], Godet21a [248], WallaceY20 [629], ZarandiASC20 [656], abs-1902-01193 [14], OuelletQ18 [487], CauwelaertLS18 [142], Tesch18 [585], HookerH17 [316], Siala15a [554], Derrien15 [179], GayHS15 [232], Siala15 [553], BofilIGSV15 [105], Vilim11 [620], Elkhyari03 [197], Demassey03 [176], Bartak02 [54]	BonninMNE24 [114], PrataAN23 [511], KameugneFND23 [338], AbreuNP23 [169], Fatemi-AnarakiTFV23 [213], LacknerMMWW23 [376], TouatBT22 [594], FarsiTM22 [212], FetgoD22 [215], SvancaraB22 [571], GeibingerMM21 [239], MokhtarzadehTNF20 [445], GodetLHS20 [249], LiuLH19 [397], KucukY19 [370], Caballero19 [127], Hooker19 [314], abs-1911-04766 [237], GeibingerMM19 [238], ArkipovBL19 [25], KameugneFGOQ18 [337], AstrandJZ18 [37], BaptisteB18 [46], GoldwaserS18 [253], CohenHB17 [155], YoungFS17 [648], LuoVLBM16 [417], ZarandiKS16 [655], Tesch16 [584]... (Total: 65)

References

- [1] Younes Aalian, Gilles Pesant, and Michel Gamache. Optimization of short-term underground mine planning using constraint programming. In Roland H. C. Yap, editor, *29th International Conference on Principles and Practice of Constraint Programming, CP 2023, August 27-31, 2023, Toronto, Canada*, volume 280 of *LIPICs*, pages 6:1–6:16. Schloss Dagstuhl - Leibniz-Zentrum für Informatik, 2023. URL: <https://doi.org/10.4230/LIPICs.CP.2023.6>, doi:10.4230/LIPICs.CP.2023.6.
- [2] Hanaa Abohashima, Amr B. Eltawil, and Mohamed S. Gheith. A mathematical programming model and a firefly-based heuristic for real-time traffic signal scheduling with physical constraints. *IEEE Access*, 9:128314–128327, 2021. doi:10.1109/ACCESS.2021.3112600.
- [3] Levi R. Abreu, Bruno A. Prata, Marcelo S. Nagano, and Jose M. Framinan. A constraint programming-based iterated greedy algorithm for the open shop with sequence-dependent processing times and makespan minimization. *Computers & Operations Research*, 160:106386, 2023. URL: <https://www.sciencedirect.com/science/article/pii/S0305054823002502>, doi:<https://doi.org/10.1016/j.cor.2023.106386>.
- [4] Montserrat Abril, Miguel A. Salido, and Federico Barber. Distributed constraints for large-scale scheduling problems. In Peter van Beek, editor, *Principles and Practice of Constraint Programming - CP 2005, 11th International Conference, CP 2005, Sitges, Spain, October 1-5, 2005, Proceedings*, volume 3709 of *Lecture Notes in Computer Science*, page 837. Springer, 2005. doi:10.1007/11564751_75.
- [5] Rodrigo Acuna-Agost, Philippe Michelon, Dominique Feillet, and Serigne Gueye. Constraint programming and mixed integer linear programming for rescheduling trains under disrupted operations. In Willem Jan van Hoes and John N. Hooker, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, 6th International Conference, CPAIOR 2009, Pittsburgh, PA, USA, May 27-31, 2009, Proceedings*, volume 5547 of *Lecture Notes in Computer Science*, pages 312–313. Springer, 2009. doi:10.1007/978-3-642-01929-6_24.
- [6] Joseph Adams, Egon Balas, and Daniel Zawack. The shifting bottleneck procedure for job shop scheduling. *Management Science*, 34(3):391–401, March 1988. URL: <http://dx.doi.org/10.1287/mnsc.34.3.391>, doi:10.1287/mnsc.34.3.391.
- [7] Nathan Adelgren and Christos T. Maravelias. On the utility of production scheduling formulations including record keeping variables. *Computers & Industrial Engineering*, 181:109330, July 2023. URL: <http://dx.doi.org/10.1016/j.cie.2023.109330>, doi:10.1016/j.cie.2023.109330.
- [8] Sezin Afsar, Camino R. Vela, Juan José Palacios, and Inés González-Rodríguez. Mathematical models and benchmarking for the fuzzy job shop scheduling problem. *Computers & Industrial Engineering*, 183:109454, September 2023. URL: <http://dx.doi.org/10.1016/j.cie.2023.109454>, doi:10.1016/j.cie.2023.109454.
- [9] Abderrahmane Aggoun and Nicolas Beldiceanu. Extending CHIP in order to solve complex scheduling and placement problems. *Mathematical and Computer Modelling*, 17(7):57–73, 1993. URL: <https://www.sciencedirect.com/science/article/pii/089571779390068A>, doi:[https://doi.org/10.1016/0895-7177\(93\)90068-A](https://doi.org/10.1016/0895-7177(93)90068-A).
- [10] Abderrahmane Aggoun, Christos Maravelias, and Alkis Vazacopoulos. *Mixed Integer Programming/Constraint Programming Hybrid Methods*, page 2270–2276. Springer US, 2008. URL: http://dx.doi.org/10.1007/978-0-387-74759-0_396, doi:10.1007/978-0-387-74759-0_396.
- [11] Penélope Aguiar-Melgarejo, Philippe Laborie, and Christine Solnon. A time-dependent no-overlap constraint: Application to urban delivery problems. In Laurent Michel, editor, *Integration of AI and OR Techniques in Constraint Programming - 12th International Conference, CPAIOR 2015, Barcelona, Spain, May 18-22, 2015, Proceedings*, volume 9075 of *Lecture Notes in Computer Science*, pages 1–17. Springer, 2015. doi:10.1007/978-3-319-18008-3_1.
- [12] Farid Ajili and Mark G. Wallace. *Hybrid Problem Solving in ECLiPSe*, page 169–206. Springer US, 2004. URL: http://dx.doi.org/10.1007/978-1-4419-8917-8_6, doi:10.1007/978-1-4419-8917-8_6.

- [13] Bilal Omar Akram, Nor Kamariah Noordin, Fazirulhisyam Hashim, Mohd Fadlee A. Rasid, Mustafa Ismael Salman, and Abdulrahman M. Abdulghani. Joint scheduling and routing optimization for deterministic hybrid traffic in time-sensitive networks using constraint programming. *IEEE Access*, 11:142764–142779, 2023. doi:10.1109/ACCESS.2023.3343409.
- [14] O. M. Alade and A. O. Amusat. Solving nurse scheduling problem using constraint programming technique. *CoRR*, abs/1902.01193, 2019. URL: <http://arxiv.org/abs/1902.01193>, arXiv:1902.01193.
- [15] Arianna Alfieri, Michele Garraffa, Erica Pastore, and Fabio Salassa. Permutation flowshop problems minimizing core waiting time and core idle time. *Computers & Industrial Engineering*, 176:108983, 2023. URL: <https://www.sciencedirect.com/science/article/pii/S0360835223000074>, doi:<https://doi.org/10.1016/j.cie.2023.108983>.
- [16] Samira Alizdeh and Shahram Saeidi. Fuzzy project scheduling with critical path including risk and resource constraints using linear programming. *Int. J. Adv. Intell. Paradigms*, 16(1):4–17, 2020. doi:10.1504/IJAIP.2020.106687.
- [17] Roberto Amadini, Maurizio Gabbrielli, and Jacopo Mauro. Parallelizing constraint solvers for hard rcpsp instances. In *Learning and Intelligent Optimization LION 2016*, page 227–233. Springer International Publishing, 2016. URL: http://dx.doi.org/10.1007/978-3-319-50349-3_16, doi:10.1007/978-3-319-50349-3_16.
- [18] Ola Angelsmark and Peter Jonsson. Some observations on durations, scheduling and allen’s algebra. In Rina Dechter, editor, *Principles and Practice of Constraint Programming - CP 2000, 6th International Conference, Singapore, September 18-21, 2000, Proceedings*, volume 1894 of *Lecture Notes in Computer Science*, pages 484–488. Springer, 2000. doi:10.1007/3-540-45349-0_35.
- [19] Mark Antunes, Vincent Armant, Kenneth N. Brown, Daniel A. Desmond, Guillaume Escamocher, Anne-Marie George, Diarmuid Grimes, Mike O’Keeffe, Yiqing Lin, Barry O’Sullivan, Cemalettin Ozturk, Luis Quesada, Mohamed Siala, Helmut Simonis, and Nic Wilson. Assigning and scheduling service visits in a mixed urban/rural setting. In Lefteri H. Tsoukalas, Éric Grégoire, and Miltiadis Alamaniotis, editors, *IEEE 30th International Conference on Tools with Artificial Intelligence, ICTAI 2018, 5-7 November 2018, Volos, Greece*, pages 114–121. IEEE, 2018. doi:10.1109/ICTAI.2018.00027.
- [20] Mark Antunes, Vincent Armant, Kenneth N. Brown, Daniel A. Desmond, Guillaume Escamocher, Anne-Marie George, Diarmuid Grimes, Mike O’Keeffe, Yiqing Lin, Barry O’Sullivan, Cemalettin Ozturk, Luis Quesada, Mohamed Siala, Helmut Simonis, and Nic Wilson. Assigning and scheduling service visits in a mixed urban/rural setting. *Int. J. Artif. Intell. Tools*, 29(03n04):2060007:1–2060007:31, 2020. doi:10.1142/S0218213020600076.
- [21] Valentin Antuori, Emmanuel Hebrard, Marie-José Huguet, Siham Essodaigui, and Alain Nguyen. Leveraging reinforcement learning, constraint programming and local search: A case study in car manufacturing. In Helmut Simonis, editor, *Principles and Practice of Constraint Programming - 26th International Conference, CP 2020, Louvain-la-Neuve, Belgium, September 7-11, 2020, Proceedings*, volume 12333 of *Lecture Notes in Computer Science*, pages 657–672. Springer, 2020. doi:10.1007/978-3-030-58475-7_38.
- [22] Valentin Antuori, Emmanuel Hebrard, Marie-José Huguet, Siham Essodaigui, and Alain Nguyen. Combining monte carlo tree search and depth first search methods for a car manufacturing workshop scheduling problem. In Laurent D. Michel, editor, *27th International Conference on Principles and Practice of Constraint Programming, CP 2021, Montpellier, France (Virtual Conference), October 25-29, 2021*, volume 210 of *LIPICs*, pages 14:1–14:16. Schloss Dagstuhl - Leibniz-Zentrum für Informatik, 2021. URL: <https://doi.org/10.4230/LIPICs.CP.2021.14>, doi:10.4230/LIPICs.CP.2021.14.
- [23] David Applegate and William Cook. A computational study of the job-shop scheduling problem. *ORSA Journal on Computing*, 3(2):149–156, May 1991. URL: <http://dx.doi.org/10.1287/ijoc.3.2.149>, doi:10.1287/ijoc.3.2.149.

- [24] Taha Arbaoui and Farouk Yalaoui. Solving the unrelated parallel machine scheduling problem with additional resources using constraint programming. In Ngoc Thanh Nguyen, Duong Hung Hoang, Tzung-Pei Hong, Hoang Pham, and Bogdan Trawinski, editors, *Intelligent Information and Database Systems - 10th Asian Conference, ACIIDS 2018, Dong Hoi City, Vietnam, March 19-21, 2018, Proceedings, Part II*, volume 10752 of *Lecture Notes in Computer Science*, pages 716–725. Springer, 2018. doi:10.1007/978-3-319-75420-8_67.
- [25] Dmitry Arkhipov, Olga Battaïa, and Alexander Lazarev. An efficient pseudo-polynomial algorithm for finding a lower bound on the makespan for the resource constrained project scheduling problem. *European Journal of Operational Research*, 275(1):35–44, May 2019. URL: <http://dx.doi.org/10.1016/j.ejor.2018.11.005>, doi:10.1016/j.ejor.2018.11.005.
- [26] Eddie Armstrong, Michele Garraffa, Barry O’Sullivan, and Helmut Simonis. The hybrid flexible flowshop with transportation times. In Laurent D. Michel, editor, *27th International Conference on Principles and Practice of Constraint Programming, CP 2021, Montpellier, France (Virtual Conference), October 25-29, 2021*, volume 210 of *LIPIcs*, pages 16:1–16:18. Schloss Dagstuhl - Leibniz-Zentrum für Informatik, 2021. URL: <https://doi.org/10.4230/LIPIcs.CP.2021.16>, doi:10.4230/LIPIcs.CP.2021.16.
- [27] Eddie Armstrong, Michele Garraffa, Barry O’Sullivan, and Helmut Simonis. A two-phase hybrid approach for the hybrid flexible flowshop with transportation times. In Pierre Schaus, editor, *Integration of Constraint Programming, Artificial Intelligence, and Operations Research - 19th International Conference, CPAIOR 2022, Los Angeles, CA, USA, June 20-23, 2022, Proceedings*, volume 13292 of *Lecture Notes in Computer Science*, pages 1–13. Springer, 2022. doi:10.1007/978-3-031-08011-1_1.
- [28] Ionuț Aron, John N. Hooker, and Tallys H. Yunes. Simpl: A system for integrating optimization techniques. In *International Conference on Integration of Artificial Intelligence (AI) and Operations Research (OR) Techniques in Constraint Programming CPAIOR 2004*, page 21–36. Springer Berlin Heidelberg, 2004. URL: http://dx.doi.org/10.1007/978-3-540-24664-0_2, doi:10.1007/978-3-540-24664-0_2.
- [29] Martin Aronsson, Markus Bohlin, and Per Kreuger. MILP formulations of cumulative constraints for railway scheduling - A comparative study. In Jens Clausen and Gabriele Di Stefano, editors, *ATMOS 2009 - 9th Workshop on Algorithmic Approaches for Transportation Modeling, Optimization, and Systems, IT University of Copenhagen, Denmark, September 10, 2009*, volume 12 of *OASICS*. Schloss Dagstuhl - Leibniz-Zentrum fuer Informatik, Germany, 2009. URL: <http://drops.dagstuhl.de/opus/volltexte/2009/2141>.
- [30] Christian Artigues, Sana Belmokhtar, and Dominique Feillet. A new exact solution algorithm for the job shop problem with sequence-dependent setup times. In Jean-Charles Régin and Michel Rueher, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, First International Conference, CPAIOR 2004, Nice, France, April 20-22, 2004, Proceedings*, volume 3011 of *Lecture Notes in Computer Science*, pages 37–49. Springer, 2004. doi:10.1007/978-3-540-24664-0_3.
- [31] Christian Artigues, Sophie Demasse, and Emmanuel Néron, editors. *Resource Constrained Project Scheduling*. Wiley, 2008. URL: <http://dx.doi.org/10.1002/9780470611227>, doi:10.1002/9780470611227.
- [32] Christian Artigues, Emmanuel Hebrard, Alain Quilliot, and Hélène Toussaint. Multi-mode RCPSP with safety margin maximization: Models and algorithms. In Greg H. Parlier, Federico Liberatore, and Marc Demange, editors, *Proceedings of the 10th International Conference on Operations Research and Enterprise Systems, ICORES 2021, Online Streaming, February 4-6, 2021*, pages 129–136. SCITEPRESS, 2021. doi:10.5220/0010190101290136.
- [33] Christian Artigues and François Roubellat. A polynomial activity insertion algorithm in a multi-resource schedule with cumulative constraints and multiple modes. *Eur. J. Oper. Res.*, 127(2):297–316, 2000. doi:10.1016/S0377-2217(99)00496-8.

- [34] Konstantin Artiouchine and Philippe Baptiste. Inter-distance constraint: An extension of the all-different constraint for scheduling equal length jobs. In Peter van Beek, editor, *Principles and Practice of Constraint Programming - CP 2005, 11th International Conference, CP 2005, Sitges, Spain, October 1-5, 2005, Proceedings*, volume 3709 of *Lecture Notes in Computer Science*, pages 62–76. Springer, 2005. doi:10.1007/11564751_8.
- [35] Max Åstrand. *Short-term Underground Mine Scheduling: An Industrial Application of Constraint Programming*. PhD thesis, Royal Institute of Technology, Stockholm, Sweden, 2021. URL: <https://nbn-resolving.org/urn:nbn:se:kth:diva-294959>.
- [36] Max Åstrand, Mikael Johansson, and Hamid Reza Feyzmahdavian. Short-term scheduling of production fleets in underground mines using cp-based LNS. In Peter J. Stuckey, editor, *Integration of Constraint Programming, Artificial Intelligence, and Operations Research - 18th International Conference, CPAIOR 2021, Vienna, Austria, July 5-8, 2021, Proceedings*, volume 12735 of *Lecture Notes in Computer Science*, pages 365–382. Springer, 2021. doi:10.1007/978-3-030-78230-6_23.
- [37] Max Åstrand, Mikael Johansson, and Alessandro Zanarini. Fleet scheduling in underground mines using constraint programming. In Willem Jan van Hoeve, editor, *Integration of Constraint Programming, Artificial Intelligence, and Operations Research - 15th International Conference, CPAIOR 2018, Delft, The Netherlands, June 26-29, 2018, Proceedings*, volume 10848 of *Lecture Notes in Computer Science*, pages 605–613. Springer, 2018. doi:10.1007/978-3-319-93031-2_44.
- [38] Max Åstrand, Mikael Johansson, and Alessandro Zanarini. Underground mine scheduling of mobile machines using constraint programming and large neighborhood search. *Comput. Oper. Res.*, 123:105036, 2020. URL: <https://doi.org/10.1016/j.cor.2020.105036>, doi:10.1016/J.COR.2020.105036.
- [39] Amelia Badica, Costin Badica, and Mirjana Ivanovic. Block structured scheduling using constraint logic programming. *AI Commun.*, 33(1):41–57, 2020. doi:10.3233/AIC-200650.
- [40] Amelia Badica, Costin Badica, Mirjana Ivanovic, and Doina Logofatu. Exploring the space of block structured scheduling processes using constraint logic programming. In Igor V. Kottenko, Costin Badica, Vasily Desnitsky, Didier El Baz, and Mirjana Ivanovic, editors, *Intelligent Distributed Computing XIII, 13th International Symposium on Intelligent Distributed Computing, IDC 2019, St. Petersburg, Russia, 7-9 October, 2019*, volume 868 of *Studies in Computational Intelligence*, pages 149–159. Springer, 2019. doi:10.1007/978-3-030-32258-8_17.
- [41] Maliheh Aramon Bajestani and J. Christopher Beck. Scheduling an aircraft repair shop. In Fahiem Bacchus, Carmel Domshlak, Stefan Edelkamp, and Malte Helmert, editors, *Proceedings of the 21st International Conference on Automated Planning and Scheduling, ICAPS 2011, Freiburg, Germany June 11-16, 2011*. AAAI, 2011. URL: <http://aaai.org/ocs/index.php/ICAPS/ICAPS11/paper/view/2680>.
- [42] Maliheh Aramon Bajestani and J. Christopher Beck. Scheduling a dynamic aircraft repair shop with limited repair resources. *J. Artif. Intell. Res.*, 47:35–70, 2013. URL: <https://doi.org/10.1613/jair.3902>, doi:10.1613/JAIR.3902.
- [43] Maliheh Aramon Bajestani and J. Christopher Beck. A two-stage coupled algorithm for an integrated maintenance planning and flowshop scheduling problem with deteriorating machines. *J. Sched.*, 18(5):471–486, 2015. URL: <https://doi.org/10.1007/s10951-015-0416-2>, doi:10.1007/S10951-015-0416-2.
- [44] Philippe Baptiste. *Résultats de complexité et programmation par contraintes pour l’ordonnancement*. Habilitation à diriger des recherches, Université de Technologie de Compiègne, July 2002. URL: <https://theses.hal.science/tel-00124998>.
- [45] Philippe Baptiste. Constraint-based schedulers, do they really work? In Ian P. Gent, editor, *Principles and Practice of Constraint Programming - CP 2009, 15th International Conference, CP 2009, Lisbon, Portugal, September 20-24, 2009, Proceedings*, volume 5732 of *Lecture Notes in Computer Science*, page 1. Springer, 2009. doi:10.1007/978-3-642-04244-7_1.
- [46] Philippe Baptiste and Nicolas Bonifas. Redundant cumulative constraints to compute preemptive bounds. *Discret. Appl. Math.*, 234:168–177, 2018. URL: <https://doi.org/10.1016/j.dam.2017.05.001>, doi:10.1016/J.DAM.2017.05.001.

- [47] Philippe Baptiste, Philippe Laborie, Claude Le Pape, and Wim Nuijten. Constraint-based scheduling and planning. In Francesca Rossi, Peter van Beek, and Toby Walsh, editors, *Handbook of Constraint Programming*, volume 2 of *Foundations of Artificial Intelligence*, pages 761–799. Elsevier, 2006. doi:10.1016/S1574-6526(06)80026-X.
- [48] Philippe Baptiste and Claude Le Pape. Constraint propagation and decomposition techniques for highly disjunctive and highly cumulative project scheduling problems. In Gert Smolka, editor, *Principles and Practice of Constraint Programming - CP97, Third International Conference, Linz, Austria, October 29 - November 1, 1997, Proceedings*, volume 1330 of *Lecture Notes in Computer Science*, pages 375–389. Springer, 1997. URL: <https://doi.org/10.1007/BFb0017454>, doi:10.1007/BFb0017454.
- [49] Philippe Baptiste and Claude Le Pape. Constraint propagation and decomposition techniques for highly disjunctive and highly cumulative project scheduling problems. *Constraints An Int. J.*, 5(1/2):119–139, 2000. doi:10.1023/A:1009822502231.
- [50] Philippe Baptiste, Claude Le Pape, and Wim Nuijten. *Constraint-Based Scheduling*. Springer US, 2001. URL: <http://dx.doi.org/10.1007/978-1-4615-1479-4>, doi:10.1007/978-1-4615-1479-4.
- [51] Pierre Baptiste, Bruno Legeard, and Christophe Varnier. Hoist scheduling problem: an approach based on constraint logic programming. In *Proceedings of the 1992 IEEE International Conference on Robotics and Automation, Nice, France, May 12-14, 1992*, pages 1139–1144. IEEE Computer Society, 1992. doi:10.1109/ROBOT.1992.220195.
- [52] Ada Barlatt, Amy Mainville Cohn, and Oleg Yu. Gusikhin. A hybrid approach for solving shift-selection and task-sequencing problems. In Laurent Perron and Michael A. Trick, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, 5th International Conference, CPAIOR 2008, Paris, France, May 20-23, 2008, Proceedings*, volume 5015 of *Lecture Notes in Computer Science*, pages 288–292. Springer, 2008. doi:10.1007/978-3-540-68155-7\24.
- [53] Roman Barták. Visopt shopfloor: Going beyond traditional scheduling. In Barry O’Sullivan, editor, *Recent Advances in Constraints, Joint ERCIM/CologNet International Workshop on Constraint Solving and Constraint Logic Programming, Cork, Ireland, June 19-21, 2002. Selected Papers*, volume 2627 of *Lecture Notes in Computer Science*, pages 185–199. Springer, 2002. doi:10.1007/3-540-36607-5\14.
- [54] Roman Barták. Visopt shopfloor: On the edge of planning and scheduling. In Pascal Van Hentenryck, editor, *Principles and Practice of Constraint Programming - CP 2002, 8th International Conference, CP 2002, Ithaca, NY, USA, September 9-13, 2002, Proceedings*, volume 2470 of *Lecture Notes in Computer Science*, pages 587–602. Springer, 2002. doi:10.1007/3-540-46135-3\39.
- [55] Roman Barták. Planning and scheduling. In Teofilo F. Gonzalez, Jorge Diaz-Herrera, and Allen Tucker, editors, *Computing Handbook, Third Edition: Computer Science and Software Engineering*, pages 39: 1–14. CRC Press, 2014.
- [56] Roman Barták, Ondrej Cepek, and Pavel Surynek. Discovering implied constraints in precedence graphs with alternatives. *Ann. Oper. Res.*, 180(1):233–263, 2010. URL: <https://doi.org/10.1007/s10479-008-0492-1>, doi:10.1007/S10479-008-0492-1.
- [57] Roman Barták and Miguel A. Salido. Constraint satisfaction for planning and scheduling problems. *Constraints An Int. J.*, 16(3):223–227, 2011. URL: <https://doi.org/10.1007/s10601-011-9109-4>, doi:10.1007/S10601-011-9109-4.
- [58] Roman Barták, Miguel A. Salido, and Francesca Rossi. New trends in constraint satisfaction, planning, and scheduling: a survey. *Knowl. Eng. Rev.*, 25(3):249–279, 2010. doi:10.1017/S0269888910000202.

- [59] Roman Barták and Marek Vlk. Reactive recovery from machine breakdown in production scheduling with temporal distance and resource constraints. In Stéphane Loiseau, Joaquim Filipe, Béatrice Duval, and H. Jaap van den Herik, editors, *ICAART 2015 - Proceedings of the International Conference on Agents and Artificial Intelligence, Volume 2, Lisbon, Portugal, 10-12 January, 2015*, pages 119–130. SciTePress, 2015.
- [60] Andrea Bartolini, Andrea Borghesi, Thomas Bridi, Michele Lombardi, and Michela Milano. Proactive workload dispatching on the EURORA supercomputer. In Barry O’Sullivan, editor, *Principles and Practice of Constraint Programming - 20th International Conference, CP 2014, Lyon, France, September 8-12, 2014. Proceedings*, volume 8656 of *Lecture Notes in Computer Science*, pages 765–780. Springer, 2014. doi:10.1007/978-3-319-10428-7_55.
- [61] Mohammadreza Barzegaran, Bahram Zarrin, and Paul Pop. Quality-of-control-aware scheduling of communication in tsn-based fog computing platforms using constraint programming. In Anton Cervin and Yang Yang, editors, *2nd Workshop on Fog Computing and the IoT, Fog-IoT 2020, April 21, 2020, Sydney, Australia*, volume 80 of *OASICS*, pages 3:1–3:9. Schloss Dagstuhl - Leibniz-Zentrum für Informatik, 2020. URL: <https://doi.org/10.4230/OASICS.Fog-IoT.2020.3>, doi:10.4230/OASICS.FOG-IOT.2020.3.
- [62] J. Christopher Beck. *Texture measurements as a basis for heuristic commitment techniques in constraint-directed scheduling*. PhD thesis, University of Toronto, Canada, 1999. URL: https://librarysearch.library.utoronto.ca/permalink/01UTORONTO_INST/14bjeso/alma991106162342106196.
- [63] J. Christopher Beck. An empirical study of multi-point constructive search for constraint-based scheduling. In Derek Long, Stephen F. Smith, Daniel Borrajo, and Lee McCluskey, editors, *Proceedings of the Sixteenth International Conference on Automated Planning and Scheduling, ICAPS 2006, Cumbria, UK, June 6-10, 2006*, pages 274–283. AAAI, 2006. URL: <http://www.aaai.org/Library/ICAPS/2006/icaps06-028.php>.
- [64] J. Christopher Beck. Solution-guided multi-point constructive search for job shop scheduling. *J. Artif. Intell. Res.*, 29:49–77, 2007. URL: <https://doi.org/10.1613/jair.2169>, doi:10.1613/JAIR.2169.
- [65] J. Christopher Beck, Andrew J. Davenport, and Mark S. Fox. Five pitfalls of empirical scheduling research. In Gert Smolka, editor, *Principles and Practice of Constraint Programming - CP97, Third International Conference, Linz, Austria, October 29 - November 1, 1997, Proceedings*, volume 1330 of *Lecture Notes in Computer Science*, pages 390–404. Springer, 1997. URL: <https://doi.org/10.1007/BFb0017455>, doi:10.1007/BFB0017455.
- [66] J. Christopher Beck, T. K. Feng, and Jean-Paul Watson. Combining constraint programming and local search for job-shop scheduling. *INFORMS J. Comput.*, 23(1):1–14, 2011. URL: <https://doi.org/10.1287/ijoc.1100.0388>, doi:10.1287/IJOC.1100.0388.
- [67] J. Christopher Beck and Mark S. Fox. A generic framework for constraint-directed search and scheduling. *AI Mag.*, 19(4):101–130, 1998. URL: <https://doi.org/10.1609/aimag.v19i4.1426>, doi:10.1609/AIMAG.V19I4.1426.
- [68] J. Christopher Beck and Mark S. Fox. Dynamic problem structure analysis as a basis for constraint-directed scheduling heuristics. *Artif. Intell.*, 117(1):31–81, 2000. doi:10.1016/S0004-3702(99)00099-5.
- [69] J. Christopher Beck, Patrick Prosser, and Evgeny Selensky. Vehicle routing and job shop scheduling: What’s the difference? In Enrico Giunchiglia, Nicola Muscettola, and Dana S. Nau, editors, *Proceedings of the Thirteenth International Conference on Automated Planning and Scheduling (ICAPS 2003), June 9-13, 2003, Trento, Italy*, pages 267–276. AAAI, 2003. URL: <http://www.aaai.org/Library/ICAPS/2003/icaps03-027.php>.
- [70] J. Christopher Beck and Philippe Refalo. A hybrid approach to scheduling with earliness and tardiness costs. *Ann. Oper. Res.*, 118(1-4):49–71, 2003. doi:10.1023/A:1021849405707.

- [71] J. Christopher Beck and Nic Wilson. Job shop scheduling with probabilistic durations. In Ramón López de Mántaras and Lorenza Saitta, editors, *Proceedings of the 16th European Conference on Artificial Intelligence, ECAI'2004, including Prestigious Applicants of Intelligent Systems, PAIS 2004, Valencia, Spain, August 22-27, 2004*, pages 652–656. IOS Press, 2004.
- [72] J. Christopher Beck and Nic Wilson. Proactive algorithms for scheduling with probabilistic durations. In Leslie Pack Kaelbling and Alessandro Saffiotti, editors, *IJCAI-05, Proceedings of the Nineteenth International Joint Conference on Artificial Intelligence, Edinburgh, Scotland, UK, July 30 - August 5, 2005*, pages 1201–1206. Professional Book Center, 2005. URL: <http://ijcai.org/Proceedings/05/Papers/0748.pdf>.
- [73] J. Christopher Beck and Nic Wilson. Proactive algorithms for job shop scheduling with probabilistic durations. *J. Artif. Intell. Res.*, 28:183–232, 2007. URL: <https://doi.org/10.1613/jair.2080>, doi:10.1613/JAIR.2080.
- [74] Asma Ouled Bedhief. Comparing mixed-integer programming and constraint programming models for the hybrid flow shop scheduling problem with dedicated machines. *Journal Européen des Systèmes Automatisés*, 2021. URL: <https://api.semanticscholar.org/CorpusID:240611192>.
- [75] Mirza Omer Beg and Peter van Beek. A constraint programming approach for integrated spatial and temporal scheduling for clustered architectures. *ACM Trans. Embed. Comput. Syst.*, 13(1):14:1–14:23, 2013. URL: <http://doi.acm.org/10.1145/2512470>, doi:10.1145/2512470.
- [76] Jan Kristof Behrens, Ralph Lange, and Masoumeh Mansouri. A constraint programming approach to simultaneous task allocation and motion scheduling for industrial dual-arm manipulation tasks. In *International Conference on Robotics and Automation, ICRA 2019, Montreal, QC, Canada, May 20-24, 2019*, pages 8705–8711. IEEE, 2019. doi:10.1109/ICRA.2019.8794022.
- [77] Jan Kristof Behrens, Ralph Lange, and Masoumeh Mansouri. A constraint programming approach to simultaneous task allocation and motion scheduling for industrial dual-arm manipulation tasks. *CoRR*, abs/1901.07914, 2019. URL: <http://arxiv.org/abs/1901.07914>, arXiv:1901.07914.
- [78] N Beldiceanu and E Contejean. Introducing global constraints in CHIP. *Mathematical and Computer Modelling*, 20(12):97–123, 1994. URL: <https://www.sciencedirect.com/science/article/pii/0895717794901279>, doi:[https://doi.org/10.1016/0895-7177\(94\)90127-9](https://doi.org/10.1016/0895-7177(94)90127-9).
- [79] Nicolas Beldiceanu and Mats Carlsson. A new multi-resource cumulatives constraint with negative heights. In Pascal Van Hentenryck, editor, *Principles and Practice of Constraint Programming - CP 2002, 8th International Conference, CP 2002, Ithaca, NY, USA, September 9-13, 2002, Proceedings*, volume 2470 of *Lecture Notes in Computer Science*, pages 63–79. Springer, 2002. doi:10.1007/3-540-46135-3_5.
- [80] Nicolas Beldiceanu, Mats Carlsson, Sophie Demasse, and Emmanuel Pöder. New filtering for the *cumulative* constraint in the context of non-overlapping rectangles. *Ann. Oper. Res.*, 184(1):27–50, 2011. URL: <https://doi.org/10.1007/s10479-010-0731-0>, doi:10.1007/S10479-010-0731-0.
- [81] Nicolas Beldiceanu, Mats Carlsson, and Emmanuel Pöder. New filtering for the cumulative constraint in the context of non-overlapping rectangles. In Laurent Perron and Michael A. Trick, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, 5th International Conference, CPAIOR 2008, Paris, France, May 20-23, 2008, Proceedings*, volume 5015 of *Lecture Notes in Computer Science*, pages 21–35. Springer, 2008. doi:10.1007/978-3-540-68155-7_5.
- [82] Nicolas Beldiceanu and Emmanuel Pöder. A continuous multi-resources *cumulative* constraint with positive-negative resource consumption-production. In Pascal Van Hentenryck and Laurence A. Wolsey, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, 4th International Conference, CPAIOR 2007, Brussels, Belgium, May 23-26, 2007, Proceedings*, volume 4510 of *Lecture Notes in Computer Science*, pages 214–228. Springer, 2007. doi:10.1007/978-3-540-72397-4_16.

- [83] Said Belhadji and Amar Isli. Temporal constraint satisfaction techniques in job shop scheduling problem solving. *Constraints An Int. J.*, 3(2/3):203–211, 1998. doi:10.1023/A:1009777711218.
- [84] Till Bender, David Wittwer, and Thorsten Schmidt. Applying constraint programming to the multi-mode scheduling problem in harvest logistics. In Martijn Mes, Eduardo Lalla-Ruiz, and Stefan Voß, editors, *Computational Logistics - 12th International Conference, ICCL 2021, Enschede, The Netherlands, September 27-29, 2021, Proceedings*, volume 13004 of *Lecture Notes in Computer Science*, pages 562–577. Springer, 2021. doi:10.1007/978-3-030-87672-2_37.
- [85] Jacques F. Benders. Partitioning procedures for solving mixed-variables programming problems. *Numerische Mathematik*, 4(1):238–252, December 1962. URL: <http://dx.doi.org/10.1007/bf01386316>, doi:10.1007/bf01386316.
- [86] Ondrej Benedikt, István Módos, and Zdenek Hanzálek. Power of pre-processing: production scheduling with variable energy pricing and power-saving states. *Constraints An Int. J.*, 25(3-4):300–318, 2020. URL: <https://doi.org/10.1007/s10601-020-09317-y>, doi:10.1007/S10601-020-09317-Y.
- [87] Ondrej Benedikt, Premysl Sucha, István Módos, Marek Vlk, and Zdenek Hanzálek. Energy-aware production scheduling with power-saving modes. In Willem Jan van Hoeve, editor, *Integration of Constraint Programming, Artificial Intelligence, and Operations Research - 15th International Conference, CPAIOR 2018, Delft, The Netherlands, June 26-29, 2018, Proceedings*, volume 10848 of *Lecture Notes in Computer Science*, pages 72–81. Springer, 2018. doi:10.1007/978-3-319-93031-2_6.
- [88] Luca Benini, Davide Bertozzi, Alessio Guerri, and Michela Milano. Allocation, scheduling and voltage scaling on energy aware mpsoes. In J. Christopher Beck and Barbara M. Smith, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, Third International Conference, CPAIOR 2006, Cork, Ireland, May 31 - June 2, 2006, Proceedings*, volume 3990 of *Lecture Notes in Computer Science*, pages 44–58. Springer, 2006. doi:10.1007/11757375_6.
- [89] Luca Benini, Michele Lombardi, Michela Milano, and Martino Ruggiero. A constraint programming approach for allocation and scheduling on the cell broadband engine. In *Principles and Practice of Constraint Programming, 14th International Conference, CP 2008, Sydney, Australia, September 14-18, 2008. Proceedings*, page 21–35. Springer Berlin Heidelberg, 2008. URL: http://dx.doi.org/10.1007/978-3-540-85958-1_2, doi:10.1007/978-3-540-85958-1_2.
- [90] Luca Benini, Michele Lombardi, Michela Milano, and Martino Ruggiero. Optimal resource allocation and scheduling for the CELL BE platform. *Ann. Oper. Res.*, 184(1):51–77, 2011. URL: <https://doi.org/10.1007/s10479-010-0718-x>, doi:10.1007/S10479-010-0718-X.
- [91] E. Bensana, Michel Lemaître, and Gérard Verfaillie. Earth observation satellite management. *Constraints An Int. J.*, 4(3):293–299, 1999. doi:10.1023/A:1026488509554.
- [92] Timo Berthold, Stefan Heinz, Marco E. Lübbecke, Rolf H. Möhring, and Jens Schulz. A constraint integer programming approach for resource-constrained project scheduling. In Andrea Lodi, Michela Milano, and Paolo Toth, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, 7th International Conference, CPAIOR 2010, Bologna, Italy, June 14-18, 2010. Proceedings*, volume 6140 of *Lecture Notes in Computer Science*, pages 313–317. Springer, 2010. doi:10.1007/978-3-642-13520-0_34.
- [93] Christian Bessiere, Emmanuel Hebrard, Marc-André Ménard, Claude-Guy Quimper, and Toby Walsh. Buffered resource constraint: Algorithms and complexity. In Helmut Simonis, editor, *Integration of AI and OR Techniques in Constraint Programming - 11th International Conference, CPAIOR 2014, Cork, Ireland, May 19-23, 2014. Proceedings*, volume 8451 of *Lecture Notes in Computer Science*, pages 318–333. Springer, 2014. doi:10.1007/978-3-319-07046-9_23.
- [94] Julien Bidot, Thierry Vidal, Philippe Laborie, and J. Christopher Beck. A theoretic and practical framework for scheduling in a stochastic environment. *J. Sched.*, 12(3):315–344, 2009. URL: <https://doi.org/10.1007/s10951-008-0080-x>, doi:10.1007/S10951-008-0080-X.

- [95] Jean-Charles Billaut, Emmanuel Hebrard, and Pierre Lopez. Complete characterization of near-optimal sequences for the two-machine flow shop scheduling problem. In Nicolas Beldiceanu, Narendra Jussien, and Eric Pinson, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems - 9th International Conference, CPAIOR 2012, Nantes, France, May 28 - June 1, 2012. Proceedings*, volume 7298 of *Lecture Notes in Computer Science*, pages 66–80. Springer, 2012. doi:10.1007/978-3-642-29828-8_5.
- [96] Arthur Bit-Monnot. Enhancing hybrid CP-SAT search for disjunctive scheduling. In Kobi Gal, Ann Nowé, Grzegorz J. Nalepa, Roy Fairstein, and Roxana Radulescu, editors, *ECAI 2023 - 26th European Conference on Artificial Intelligence, September 30 - October 4, 2023, Kraków, Poland - Including 12th Conference on Prestigious Applications of Intelligent Systems (PAIS 2023)*, volume 372 of *Frontiers in Artificial Intelligence and Applications*, pages 255–262. IOS Press, 2023. doi:10.3233/FAIA230278.
- [97] Jacek Blazewicz, Klaus H. Ecker, Erwin Pesch, Günter Schmidt, Malgorzata Sterna, and Jan Weglarz. Constraint Programming and Disjunctive Scheduling. In *Handbook on Scheduling*, International Handbooks on Information Systems, chapter 16, pages 609–670. Springer, November 2019. URL: https://ideas.repec.org/h/spr/ihichp/978-3-319-99849-7_16.html, doi:10.1007/978-3-319-99849-7.
- [98] Jacek Blazewicz, Jan Karel Lenstra, and A. H. G. Rinnooy Kan. Scheduling subject to resource constraints: classification and complexity. *Discret. Appl. Math.*, 5(1):11–24, 1983. doi:10.1016/0166-218X(83)90012-4.
- [99] Michelle L. Blom, Christina N. Burt, Adrian R. Pearce, and Peter J. Stuckey. A decomposition-based heuristic for collaborative scheduling in a network of open-pit mines. *INFORMS J. Comput.*, 26(4):658–676, 2014. URL: <https://doi.org/10.1287/ijoc.2013.0590>, doi:10.1287/IJOC.2013.0590.
- [100] Michelle L. Blom, Adrian R. Pearce, and Peter J. Stuckey. A decomposition-based algorithm for the scheduling of open-pit networks over multiple time periods. *Manag. Sci.*, 62(10):3059–3084, 2016. URL: <https://doi.org/10.1287/mnsc.2015.2284>, doi:10.1287/MNSC.2015.2284.
- [101] Grzegorz Bocewicz, Irena Bach, and Zbigniew Antoni Banaszak. Logic-algebraic method based and constraints programming driven approach to agvs scheduling. *Int. J. Intell. Inf. Database Syst.*, 3(1):56–74, 2009. doi:10.1504/IJIIDS.2009.023038.
- [102] Alexander Bockmayr and John N. Hooker. *Constraint Programming*, page 559–600. Elsevier, 2005. URL: [http://dx.doi.org/10.1016/s0927-0507\(05\)12010-6](http://dx.doi.org/10.1016/s0927-0507(05)12010-6), doi:10.1016/s0927-0507(05)12010-6.
- [103] Miquel Bofill, Jordi Coll, Josep Suy, and Mateu Villaret. An efficient SMT approach to solve mrcpsp/max instances with tight constraints on resources. In J. Christopher Beck, editor, *Principles and Practice of Constraint Programming - 23rd International Conference, CP 2017, Melbourne, VIC, Australia, August 28 - September 1, 2017, Proceedings*, volume 10416 of *Lecture Notes in Computer Science*, pages 71–79. Springer, 2017. doi:10.1007/978-3-319-66158-2_5.
- [104] Miquel Bofill, Joan Espasa, Marc Garcia, Miquel Palahí, Josep Suy, and Mateu Villaret. Scheduling B2B meetings. In Barry O’Sullivan, editor, *Principles and Practice of Constraint Programming - 20th International Conference, CP 2014, Lyon, France, September 8-12, 2014. Proceedings*, volume 8656 of *Lecture Notes in Computer Science*, pages 781–796. Springer, 2014. doi:10.1007/978-3-319-10428-7_56.
- [105] Miquel Bofill, Marc Garcia, Josep Suy, and Mateu Villaret. Maxsat-based scheduling of B2B meetings. In Laurent Michel, editor, *Integration of AI and OR Techniques in Constraint Programming - 12th International Conference, CPAIOR 2015, Barcelona, Spain, May 18-22, 2015, Proceedings*, volume 9075 of *Lecture Notes in Computer Science*, pages 65–73. Springer, 2015. doi:10.1007/978-3-319-18008-3_5.
- [106] Alessio Bonfietti. A constraint programming scheduling solver for the mpopt programming environment. *Intelligenza Artificiale*, 10(1):65–77, 2016. doi:10.3233/IA-160095.

- [107] Alessio Bonfietti, Michele Lombardi, Luca Benini, and Michela Milano. A constraint based approach to cyclic RCPSP. In Jimmy Ho-Man Lee, editor, *Principles and Practice of Constraint Programming - CP 2011 - 17th International Conference, CP 2011, Perugia, Italy, September 12-16, 2011. Proceedings*, volume 6876 of *Lecture Notes in Computer Science*, pages 130–144. Springer, 2011. doi:10.1007/978-3-642-23786-7_12.
- [108] Alessio Bonfietti, Michele Lombardi, Luca Benini, and Michela Milano. Global cyclic cumulative constraint. In Nicolas Beldiceanu, Narendra Jussien, and Eric Pinson, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems - 9th International Conference, CPAIOR 2012, Nantes, France, May 28 - June 1, 2012. Proceedings*, volume 7298 of *Lecture Notes in Computer Science*, pages 81–96. Springer, 2012. doi:10.1007/978-3-642-29828-8_6.
- [109] Alessio Bonfietti, Michele Lombardi, Luca Benini, and Michela Milano. CROSS cyclic resource-constrained scheduling solver. *Artif. Intell.*, 206:25–52, 2014. URL: <https://doi.org/10.1016/j.artint.2013.09.006>, doi:10.1016/J.ARTINT.2013.09.006.
- [110] Alessio Bonfietti, Michele Lombardi, and Michela Milano. De-cycling cyclic scheduling problems. In Daniel Borrajo, Subbarao Kambhampati, Angelo Oddi, and Simone Fratini, editors, *Proceedings of the Twenty-Third International Conference on Automated Planning and Scheduling, ICAPS 2013, Rome, Italy, June 10-14, 2013*. AAAI, 2013. URL: <http://www.aaai.org/ocs/index.php/ICAPS/ICAPS13/paper/view/6050>.
- [111] Alessio Bonfietti, Michele Lombardi, and Michela Milano. Disregarding duration uncertainty in partial order schedules? yes, we can! In Helmut Simonis, editor, *Integration of AI and OR Techniques in Constraint Programming - 11th International Conference, CPAIOR 2014, Cork, Ireland, May 19-23, 2014. Proceedings*, volume 8451 of *Lecture Notes in Computer Science*, pages 210–225. Springer, 2014. doi:10.1007/978-3-319-07046-9_15.
- [112] Alessio Bonfietti and Michela Milano. A constraint-based approach to cyclic resource-constrained scheduling problem. In Paolo Liberatore, Michele Lombardi, and Floriano Scioscia, editors, *Proceedings of the Doctoral Consortium of the 12th Symposium of the Italian Association for Artificial Intelligence, Rome, Italy, June 15, 2012*, volume 926 of *CEUR Workshop Proceedings*, pages 10–12. CEUR-WS.org, 2012. URL: <https://ceur-ws.org/Vol-926/paper2.pdf>.
- [113] Alessio Bonfietti, Alessandro Zanarini, Michele Lombardi, and Michela Milano. The multirate resource constraint. In Michel Rueher, editor, *Principles and Practice of Constraint Programming - 22nd International Conference, CP 2016, Toulouse, France, September 5-9, 2016, Proceedings*, volume 9892 of *Lecture Notes in Computer Science*, pages 113–129. Springer, 2016. doi:10.1007/978-3-319-44953-1_8.
- [114] Camille Bonnin, Arnaud Malapert, Margaux Nattaf, and Marie-Laure Espinouse. Toward a global constraint for minimizing the flowtime. In Federico Liberatore, Slawo Wesolkowski, and Greg H. Parlier, editors, *Proceedings of the 13th International Conference on Operations Research and Enterprise Systems, ICORES 2024, Rome, Italy, February 24-26, 2024*, pages 70–81. SCITEPRESS, 2024. doi:10.5220/0012310200003639.
- [115] Kyle E. C. Booth, Goldie Nejat, and J. Christopher Beck. A constraint programming approach to multi-robot task allocation and scheduling in retirement homes. In Michel Rueher, editor, *Principles and Practice of Constraint Programming - 22nd International Conference, CP 2016, Toulouse, France, September 5-9, 2016, Proceedings*, volume 9892 of *Lecture Notes in Computer Science*, pages 539–555. Springer, 2016. doi:10.1007/978-3-319-44953-1_34.
- [116] Andrea Borghesi, Andrea Bartolini, Michele Lombardi, Michela Milano, and Luca Benini. Scheduling-based power capping in high performance computing systems. *Sustain. Comput. Informatics Syst.*, 19:1–13, 2018. URL: <https://doi.org/10.1016/j.suscom.2018.05.007>, doi:10.1016/J.SUSCOM.2018.05.007.
- [117] Eric Boucher, Astrid Bachelu, Christophe Varnier, Pierre Baptiste, and Bruno Legeard. Multi-criteria comparison between algorithmic, constraint logic and specific constraint programming on a real scheduling problem. In Mark Wallace, editor, *Proceedings of the Third International Conference on the Practical Application of Constraint Technology, PACT 1997, Westminster Central Hall, London, UK, April 23-25, 1997*, pages 47–64. Practical Application Company Ltd., 1997.

- [118] Raphaël Boudreault, Vanessa Simard, Daniel Lafond, and Claude-Guy Quimper. A constraint programming approach to ship refit project scheduling. In Christine Solnon, editor, *28th International Conference on Principles and Practice of Constraint Programming, CP 2022, July 31 to August 8, 2022, Haifa, Israel*, volume 235 of *LIPICs*, pages 10:1–10:16. Schloss Dagstuhl - Leibniz-Zentrum für Informatik, 2022. URL: <https://doi.org/10.4230/LIPICs.CP.2022.10>, doi:10.4230/LIPICs.CP.2022.10.
- [119] Eric Bourreau, Thierry Garaix, Matthieu Gondran, Philippe Lacomme, and Nikolay Tchernev. A constraint-programming based decomposition method for the generalised workforce scheduling and routing problem (GWSRP). *Int. J. Prod. Res.*, 60(4):1265–1283, 2022. doi:10.1080/00207543.2020.1856436.
- [120] Silvia Breiteringer and Hendrik C. R. Lock. Using constraint logic programming for industrial scheduling problems. In Christoph Beierle and Lutz Plümer, editors, *Logic Programming: Formal Methods and Practical Applications, Studies in Computer Science and Artificial Intelligence*, pages 273–299. Elsevier Science B.V./North-Holland, 1995.
- [121] Thomas Bridi, Andrea Bartolini, Michele Lombardi, Michela Milano, and Luca Benini. A constraint programming scheduler for heterogeneous high-performance computing machines. *IEEE Trans. Parallel Distributed Syst.*, 27(10):2781–2794, 2016. doi:10.1109/TPDS.2016.2516997.
- [122] Thomas Bridi, Michele Lombardi, Andrea Bartolini, Luca Benini, and Michela Milano. DARDIS: distributed and randomized dispatching and scheduling. In Gal A. Kaminka, Maria Fox, Paolo Bouquet, Eyke Hüllermeier, Virginia Dignum, Frank Dignum, and Frank van Harmelen, editors, *ECAI 2016 - 22nd European Conference on Artificial Intelligence, 29 August-2 September 2016, The Hague, The Netherlands - Including Prestigious Applications of Artificial Intelligence (PAIS 2016)*, volume 285 of *Frontiers in Artificial Intelligence and Applications*, pages 1598–1599. IOS Press, 2016. doi:10.3233/978-1-61499-672-9-1598.
- [123] Peter Brucker, Andreas Drexler, Rolf Möhring, Klaus Neumann, and Erwin Pesch. Resource-constrained project scheduling: Notation, classification, models, and methods. *European Journal of Operational Research*, 112(1):3–41, January 1999. URL: [http://dx.doi.org/10.1016/S0377-2217\(98\)00204-5](http://dx.doi.org/10.1016/S0377-2217(98)00204-5), doi:10.1016/S0377-2217(98)00204-5.
- [124] Vittorio Brusoni, Luca Console, Evelina Lamma, Paola Mello, Michela Milano, and Paolo Terenziani. Resource-based vs. task-based approaches for scheduling problems. In Zbigniew W. Ras and Maciej Michalewicz, editors, *Foundations of Intelligent Systems, 9th International Symposium, ISMIS '96, Zakopane, Poland, June 9-13, 1996, Proceedings*, volume 1079 of *Lecture Notes in Computer Science*, pages 325–334. Springer, 1996. doi:10.1007/3-540-61286-6_157.
- [125] Christina N. Burt, Nir Lipovetzky, Adrian R. Pearce, and Peter J. Stuckey. Scheduling with fixed maintenance, shared resources and nonlinear feedrate constraints: A mine planning case study. In Laurent Michel, editor, *Integration of AI and OR Techniques in Constraint Programming - 12th International Conference, CPAIOR 2015, Barcelona, Spain, May 18-22, 2015, Proceedings*, volume 9075 of *Lecture Notes in Computer Science*, pages 91–107. Springer, 2015. doi:10.1007/978-3-319-18008-3_7.
- [126] Jacek Błażewicz, Wolfgang Domschke, and Erwin Pesch. The job shop scheduling problem: Conventional and new solution techniques. *European Journal of Operational Research*, 93(1):1–33, August 1996. URL: [http://dx.doi.org/10.1016/0377-2217\(95\)00362-2](http://dx.doi.org/10.1016/0377-2217(95)00362-2), doi:10.1016/0377-2217(95)00362-2.
- [127] Jordi Coll Caballero. *Scheduling Through Logic-Based Tools*. PhD thesis, Universitat de Girona, Spain, 2019. URL: <https://www.tesisenred.net/handle/10803/667963#page=1>.
- [128] Jordi Coll Caballero. Scheduling through logic-based tools. *Constraints An Int. J.*, 28(3):510, 2023. URL: <https://doi.org/10.1007/s10601-023-09357-0>, doi:10.1007/S10601-023-09357-0.
- [129] Louis-Pierre Campeau and Michel Gamache. Short- and medium-term optimization of underground mine planning using constraint programming. *Constraints An Int. J.*, 27(4):414–431, 2022. URL: <https://doi.org/10.1007/s10601-022-09337-w>, doi:10.1007/S10601-022-09337-W.

- [130] Quentin Cappart and Pierre Schaus. Rescheduling railway traffic on real time situations using time-interval variables. In Domenico Salvagnin and Michele Lombardi, editors, *Integration of AI and OR Techniques in Constraint Programming - 14th International Conference, CPAIOR 2017, Padua, Italy, June 5-8, 2017, Proceedings*, volume 10335 of *Lecture Notes in Computer Science*, pages 312–327. Springer, 2017. doi:10.1007/978-3-319-59776-8_26.
- [131] Quentin Cappart, Charles Thomas, Pierre Schaus, and Louis-Martin Rousseau. A constraint programming approach for solving patient transportation problems. In John N. Hooker, editor, *Principles and Practice of Constraint Programming - 24th International Conference, CP 2018, Lille, France, August 27-31, 2018, Proceedings*, volume 11008 of *Lecture Notes in Computer Science*, pages 490–506. Springer, 2018. doi:10.1007/978-3-319-98334-9_32.
- [132] Tom Carchrae and J. Christopher Beck. Principles for the design of large neighborhood search. *Journal of Mathematical Modelling and Algorithms*, 8(3):245–270, January 2009. URL: <http://dx.doi.org/10.1007/s10852-008-9100-2>, doi:10.1007/s10852-008-9100-2.
- [133] Tom Carchrae, J. Christopher Beck, and Eugene C. Freuder. Methods to learn abstract scheduling models. In Peter van Beek, editor, *Principles and Practice of Constraint Programming - CP 2005, 11th International Conference, CP 2005, Sitges, Spain, October 1-5, 2005, Proceedings*, volume 3709 of *Lecture Notes in Computer Science*, page 842. Springer, 2005. doi:10.1007/11564751_80.
- [134] Jacques Carlier and Eric Pinson. An algorithm for solving the job-shop problem. *Management Science*, 35(2):164–176, February 1989. URL: <http://dx.doi.org/10.1287/mnsc.35.2.164>, doi:10.1287/mnsc.35.2.164.
- [135] Jacques Carlier and Eric Pinson. A practical use of jackson’s preemptive schedule for solving the job shop problem. *Annals of Operations Research*, 26(1–4):269–287, December 1990. URL: <http://dx.doi.org/10.1007/bf03543071>, doi:10.1007/bf03543071.
- [136] Jacques Carlier and Eric Pinson. Adjustment of heads and tails for the job-shop problem. *European Journal of Operational Research*, 78(2):146–161, October 1994. URL: [http://dx.doi.org/10.1016/0377-2217\(94\)90379-4](http://dx.doi.org/10.1016/0377-2217(94)90379-4), doi:10.1016/0377-2217(94)90379-4.
- [137] Jacques Carlier, Abderrahim Sahli, Antoine Jouglet, and Eric Pinson. A faster checker of the energetic reasoning for the cumulative scheduling problem. *International Journal of Production Research*, 60(11):3419–3434, May 2021. URL: <http://dx.doi.org/10.1080/00207543.2021.1923853>, doi:10.1080/00207543.2021.1923853.
- [138] Yves Caseau. Using constraint propagation for complex scheduling problems: Managing size, complex resources and travel. In Gert Smolka, editor, *Principles and Practice of Constraint Programming - CP97, Third International Conference, Linz, Austria, October 29 - November 1, 1997, Proceedings*, volume 1330 of *Lecture Notes in Computer Science*, pages 163–166. Springer, 1997. URL: <https://doi.org/10.1007/BFb0017437>, doi:10.1007/BFb0017437.
- [139] Pedro M. Castro, Ignacio E. Grossmann, and Louis-Martin Rousseau. *Decomposition Techniques for Hybrid MILP/CP Models applied to Scheduling and Routing Problems*, page 135–167. Springer New York, October 2010. URL: http://dx.doi.org/10.1007/978-1-4419-1644-0_4, doi:10.1007/978-1-4419-1644-0_4.
- [140] Nicolas Catusse, Hadrien Cambazard, Nadia Brauner, Pierre Lemaire, Bernard Penz, Anne-Marie Lagrange, and Pascal Rubini. A branch-and-price algorithm for scheduling observations on a telescope. In Subbarao Kambhampati, editor, *Proceedings of the Twenty-Fifth International Joint Conference on Artificial Intelligence, IJCAI 2016, New York, NY, USA, 9-15 July 2016*, pages 3060–3066. IJCAI/AAAI Press, 2016. URL: <http://www.ijcai.org/Abstract/16/434>.
- [141] Sascha Van Cauwelaert, Cyrille Dejemeppe, Jean-Noël Monette, and Pierre Schaus. Efficient filtering for the unary resource with family-based transition times. In Michel Rueher, editor, *Principles and Practice of Constraint Programming - 22nd International Conference, CP 2016, Toulouse, France, September 5-9, 2016, Proceedings*, volume 9892 of *Lecture Notes in Computer Science*, pages 520–535. Springer, 2016. doi:10.1007/978-3-319-44953-1_33.
- [142] Sascha Van Cauwelaert, Michele Lombardi, and Pierre Schaus. How efficient is a global constraint in practice? - A fair experimental framework. *Constraints An Int. J.*, 23(1):87–122, 2018. URL: <https://doi.org/10.1007/s10601-017-9277-y>, doi:10.1007/s10601-017-9277-y.

- [143] Sasha Van Cauwelaert, Cyrille Dejemeppe, and Pierre Schaus. An efficient filtering algorithm for the unary resource constraint with transition times and optional activities. *Journal of Scheduling*, 23(4):431–449, February 2020. URL: <http://dx.doi.org/10.1007/s10951-019-00632-8>, doi:10.1007/s10951-019-00632-8.
- [144] Amedeo Cesta, Angelo Oddi, Nicola Policella, and Stephen F. Smith. *A Precedence Constraint Posting Approach*, page 113–133. Springer International Publishing, October 2014. URL: http://dx.doi.org/10.1007/978-3-319-05443-8_6, doi:10.1007/978-3-319-05443-8_6.
- [145] Amedeo Cesta, Angelo Oddi, and Stephen F. Smith. Scheduling multi-capacitated resources under complex temporal constraints. In Michael J. Maher and Jean-Francois Puget, editors, *Principles and Practice of Constraint Programming - CP98, 4th International Conference, Pisa, Italy, October 26-30, 1998, Proceedings*, volume 1520 of *Lecture Notes in Computer Science*, page 465. Springer, 1998. doi:10.1007/3-540-49481-2_36.
- [146] Nicolas Chapados, Marc Joliveau, and Louis-Martin Rousseau. Retail store workforce scheduling by expected operating income maximization. In Tobias Achterberg and J. Christopher Beck, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems - 8th International Conference, CPAIOR 2011, Berlin, Germany, May 23-27, 2011. Proceedings*, volume 6697 of *Lecture Notes in Computer Science*, pages 53–58. Springer, 2011. doi:10.1007/978-3-642-21311-3_7.
- [147] Yarong Chen, Zailin Guan, Yunfang Peng, Xinyu Shao, and Muhammad Hasseb. Technology and system of constraint programming for industry production scheduling — part i: A brief survey and potential directions. *Frontiers of Mechanical Engineering in China*, 5(4):455–464, August 2010. URL: <http://dx.doi.org/10.1007/s11465-010-0106-x>, doi:10.1007/s11465-010-0106-x.
- [148] Geoffrey Chu, Serge Gaspers, Nina Narodytska, Andreas Schutt, and Toby Walsh. On the complexity of global scheduling constraints under structural restrictions. In Francesca Rossi, editor, *IJCAI 2013, Proceedings of the 23rd International Joint Conference on Artificial Intelligence, Beijing, China, August 3-9, 2013*, pages 503–509. IJCAI/AAAI, 2013. URL: <http://www.aaai.org/ocs/index.php/IJCAI/IJCAI13/paper/view/6878>.
- [149] Yingyi Chu and Quanshi Xia. A hybrid algorithm for a class of resource constrained scheduling problems. In Roman Barták and Michela Milano, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, Second International Conference, CPAIOR 2005, Prague, Czech Republic, May 30 - June 1, 2005, Proceedings*, volume 3524 of *Lecture Notes in Computer Science*, pages 110–124. Springer, 2005. doi:10.1007/11493853_10.
- [150] André A. Ciré, Elvin Coban, and John N. Hooker. Mixed integer programming vs. logic-based benders decomposition for planning and scheduling. In Carla P. Gomes and Meinolf Sellmann, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, 10th International Conference, CPAIOR 2013, Yorktown Heights, NY, USA, May 18-22, 2013. Proceedings*, volume 7874 of *Lecture Notes in Computer Science*, pages 325–331. Springer, 2013. doi:10.1007/978-3-642-38171-3_22.
- [151] Andre A. Ciré, Elvin Coban, and John N. Hooker. Logic-based benders decomposition for planning and scheduling: a computational analysis. *The Knowledge Engineering Review*, 31(5):440–451, November 2016. URL: <http://dx.doi.org/10.1017/s0269888916000254>, doi:10.1017/s0269888916000254.
- [152] Alexis De Clercq, Thierry Petit, Nicolas Beldiceanu, and Narendra Jussien. Filtering algorithms for discrete cumulative problems with overloads of resource. In Jimmy Ho-Man Lee, editor, *Principles and Practice of Constraint Programming - CP 2011 - 17th International Conference, CP 2011, Perugia, Italy, September 12-16, 2011. Proceedings*, volume 6876 of *Lecture Notes in Computer Science*, pages 240–255. Springer, 2011. doi:10.1007/978-3-642-23786-7_20.
- [153] Elvin Coban and John N. Hooker. Single-facility scheduling over long time horizons by logic-based benders decomposition. In Andrea Lodi, Michela Milano, and Paolo Toth, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, 7th International Conference, CPAIOR 2010, Bologna, Italy, June 14-18, 2010. Proceedings*, volume 6140 of *Lecture Notes in Computer Science*, pages 87–91. Springer, 2010. doi:10.1007/978-3-642-13520-0_11.

- [154] Elvin Coban and John N. Hooker. Single-facility scheduling by logic-based benders decomposition. *Annals of Operations Research*, 210(1):245–272, December 2011. URL: <http://dx.doi.org/10.1007/s10479-011-1031-z>, doi:10.1007/s10479-011-1031-z.
- [155] Eldan Cohen, Guoyu Huang, and J. Christopher Beck. (I can get) satisfaction: Preference-based scheduling for concert-goers at multi-venue music festivals. In Serge Gaspers and Toby Walsh, editors, *Theory and Applications of Satisfiability Testing - SAT 2017 - 20th International Conference, Melbourne, VIC, Australia, August 28 - September 1, 2017, Proceedings*, volume 10491 of *Lecture Notes in Computer Science*, pages 147–163. Springer, 2017. doi:10.1007/978-3-319-66263-3_10.
- [156] Giacomo Da Col and Erich Teppan. Large-scale benchmarks for the job shop scheduling problem. *CoRR*, abs/2102.08778, 2021. URL: <https://arxiv.org/abs/2102.08778>, arXiv:2102.08778.
- [157] Giacomo Da Col and Erich Christian Teppan. Industrial size job shop scheduling tackled by present day CP solvers. In Thomas Schiex and Simon de Givry, editors, *Principles and Practice of Constraint Programming - 25th International Conference, CP 2019, Stamford, CT, USA, September 30 - October 4, 2019, Proceedings*, volume 11802 of *Lecture Notes in Computer Science*, pages 144–160. Springer, 2019. doi:10.1007/978-3-030-30048-7_9.
- [158] Yves Colombani. Constraint programming: an efficient and practical approach to solving the job-shop problem. In Eugene C. Freuder, editor, *Proceedings of the Second International Conference on Principles and Practice of Constraint Programming, Cambridge, Massachusetts, USA, August 19-22, 1996*, volume 1118 of *Lecture Notes in Computer Science*, pages 149–163. Springer, 1996. doi:10.1007/3-540-61551-2_72.
- [159] Ayoub Insa Corréa, André Langevin, and Louis-Martin Rousseau. Scheduling and routing of automated guided vehicles: A hybrid approach. *Computers & Operations Research*, 34(6):1688–1707, June 2007. URL: <http://dx.doi.org/10.1016/j.cor.2005.07.004>, doi:10.1016/j.cor.2005.07.004.
- [160] Kateryna Czerniachowska, Radosław Wichniarek, and Krzysztof Żywicki. Constraint programming for flexible flow shop scheduling problem with repeated jobs and repeated operations. *Advances in Science and Technology Research Journal*, 17(3):280–293, 2023. doi:10.12913/22998624/166588.
- [161] Giacomo Da Col and Erich C. Teppan. Industrial-size job shop scheduling with constraint programming. *Operations Research Perspectives*, 9:100249, 2022. URL: <http://dx.doi.org/10.1016/j.orp.2022.100249>, doi:10.1016/j.orp.2022.100249.
- [162] Emilie Danna and Claude Le Pape. *Two Generic Schemes for Efficient and Robust Cooperative Algorithms*, page 33–57. Springer US, 2004. URL: http://dx.doi.org/10.1007/978-1-4419-8917-8_2, doi:10.1007/978-1-4419-8917-8_2.
- [163] Emilie Danna and Laurent Perron. Structured vs. unstructured large neighborhood search: A case study on job-shop scheduling problems with earliness and tardiness costs. In Francesca Rossi, editor, *Principles and Practice of Constraint Programming - CP 2003, 9th International Conference, CP 2003, Kinsale, Ireland, September 29 - October 3, 2003, Proceedings*, volume 2833 of *Lecture Notes in Computer Science*, pages 817–821. Springer, 2003. doi:10.1007/978-3-540-45193-8_59.
- [164] Ken Darby-Dowman, James Little, Gautam Mitra, and Marco Zaffalon. Constraint logic programming and integer programming approaches and their collaboration in solving an assignment scheduling problem. *Constraints An Int. J.*, 1(3):245–264, 1997. doi:10.1007/BF00137871.
- [165] Andrew J. Davenport. Integrated maintenance scheduling for semiconductor manufacturing. In Andrea Lodi, Michela Milano, and Paolo Toth, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, 7th International Conference, CPAIOR 2010, Bologna, Italy, June 14-18, 2010. Proceedings*, volume 6140 of *Lecture Notes in Computer Science*, pages 92–96. Springer, 2010. doi:10.1007/978-3-642-13520-0_12.
- [166] Andrew J. Davenport, Jayant Kalagnanam, Chandra Reddy, Stuart Siegel, and John Hou. An application of constraint programming to generating detailed operations schedules for steel manufacturing. In Christian Bessiere, editor, *Principles and Practice of Constraint Programming - CP 2007, 13th International Conference, CP 2007, Providence, RI, USA, September 23-27, 2007, Proceedings*, volume 4741 of *Lecture Notes in Computer Science*, pages 64–76. Springer, 2007. doi:10.1007/978-3-540-74970-7_7.

- [167] Levi Ribeiro de Abreu, Kennedy A. G. Araújo, Bruno de Athayde Prata, Marcelo Seido Nagano, and J. V. Moccellini. A new variable neighbourhood search with a constraint programming search strategy for the open shop scheduling problem with operation repetitions. *Engineering Optimization*, 54:1563 – 1582, 2021. URL: <https://api.semanticscholar.org/CorpusID:238794651>.
- [168] Levi Ribeiro de Abreu and Marcelo Seido Nagano. A new hybridization of adaptive large neighborhood search with constraint programming for open shop scheduling with sequence-dependent setup times. *Comput. Ind. Eng.*, 168:108128, 2022. URL: <https://doi.org/10.1016/j.cie.2022.108128>, doi:10.1016/J.CIE.2022.108128.
- [169] Levi Ribeiro de Abreu, Marcelo Seido Nagano, and Bruno A. Prata. A new two-stage constraint programming approach for open shop scheduling problem with machine blocking. *Int. J. Prod. Res.*, 61(24):8560–8579, 2023. doi:10.1080/00207543.2022.2154404.
- [170] Alexis de Clercq. *Ordonnancement cumulatif avec dépassements de capacité : Contrainte globale et décompositions*. Theses, Ecole des Mines de Nantes, October 2012. URL: <https://theses.hal.science/tel-00794323>.
- [171] Maria Garcia de la Banda, Peter J. Stuckey, and Geoffrey Chu. Solving talent scheduling with dynamic programming. *INFORMS J. Comput.*, 23(1):120–137, 2011. URL: <https://doi.org/10.1287/ijoc.1090.0378>, doi:10.1287/IJOC.1090.0378.
- [172] Rina Dechter, Itay Meiri, and Judea Pearl. Temporal constraint networks. *Artificial Intelligence*, 49(1–3):61–95, May 1991. URL: [http://dx.doi.org/10.1016/0004-3702\(91\)90006-6](http://dx.doi.org/10.1016/0004-3702(91)90006-6), doi:10.1016/0004-3702(91)90006-6.
- [173] Cyrille Dejemeppe. *Constraint programming algorithms and models for scheduling applications*. PhD thesis, Catholic University of Louvain, Louvain-la-Neuve, Belgium, 2016. URL: <https://hdl.handle.net/2078.1/178078>.
- [174] Cyrille Dejemeppe, Sascha Van Cauwelaert, and Pierre Schaus. The unary resource with transition times. In Gilles Pesant, editor, *Principles and Practice of Constraint Programming - 21st International Conference, CP 2015, Cork, Ireland, August 31 - September 4, 2015, Proceedings*, volume 9255 of *Lecture Notes in Computer Science*, pages 89–104. Springer, 2015. doi:10.1007/978-3-319-23219-5_7.
- [175] Cyrille Dejemeppe and Yves Deville. Continuously degrading resource and interval dependent activity durations in nuclear medicine patient scheduling. In Helmut Simonis, editor, *Integration of AI and OR Techniques in Constraint Programming - 11th International Conference, CPAIOR 2014, Cork, Ireland, May 19-23, 2014. Proceedings*, volume 8451 of *Lecture Notes in Computer Science*, pages 284–292. Springer, 2014. doi:10.1007/978-3-319-07046-9_20.
- [176] Sophie Demasse. *Méthodes hybrides de programmation par contraintes et programmation linéaire pour le problème d’ordonnancement de projet à contraintes de ressources. (Hybrid Constraint Programming-Integer Linear Programming approaches for the Resource-Constrained Project Scheduling Problem)*. PhD thesis, University of Avignon, France, 2003. URL: <https://tel.archives-ouvertes.fr/tel-00293564>.
- [177] Sophie Demasse, Christian Artigues, and Philippe Michelon. Constraint-propagation-based cutting planes: An application to the resource-constrained project scheduling problem. *INFORMS Journal on Computing*, 17(1):52–65, February 2005. URL: <http://dx.doi.org/10.1287/ijoc.1030.0043>, doi:10.1287/ijoc.1030.0043.
- [178] Emir Demirovic and Peter J. Stuckey. Constraint programming for high school timetabling: A scheduling-based model with hot starts. In Willem Jan van Hoeve, editor, *Integration of Constraint Programming, Artificial Intelligence, and Operations Research - 15th International Conference, CPAIOR 2018, Delft, The Netherlands, June 26-29, 2018, Proceedings*, volume 10848 of *Lecture Notes in Computer Science*, pages 135–152. Springer, 2018. doi:10.1007/978-3-319-93031-2_10.

- [179] Alban Derrien. *Ordonnancement cumulatif en programmation par contraintes : caractérisation énergétique des raisonnements et solutions robustes. (Cumulative scheduling in constraint programming : energetic characterization of reasoning and robust solutions)*. PhD thesis, École des mines de Nantes, France, 2015. URL: <https://tel.archives-ouvertes.fr/tel-01242789>.
- [180] Alban Derrien and Thierry Petit. A new characterization of relevant intervals for energetic reasoning. In Barry O’Sullivan, editor, *Principles and Practice of Constraint Programming - 20th International Conference, CP 2014, Lyon, France, September 8-12, 2014. Proceedings*, volume 8656 of *Lecture Notes in Computer Science*, pages 289–297. Springer, 2014. doi:10.1007/978-3-319-10428-7_22.
- [181] Alban Derrien, Thierry Petit, and Stéphane Zampelli. A declarative paradigm for robust cumulative scheduling. In Barry O’Sullivan, editor, *Principles and Practice of Constraint Programming - 20th International Conference, CP 2014, Lyon, France, September 8-12, 2014. Proceedings*, volume 8656 of *Lecture Notes in Computer Science*, pages 298–306. Springer, 2014. doi:10.1007/978-3-319-10428-7_23.
- [182] Stefano Di Alesio, Shiva Nejati, Lionel C. Briand, and Arnaud Gotlieb. Worst-case scheduling of software tasks - A constraint optimization model to support performance testing. In Barry O’Sullivan, editor, *Principles and Practice of Constraint Programming - 20th International Conference, CP 2014, Lyon, France, September 8-12, 2014. Proceedings*, volume 8656 of *Lecture Notes in Computer Science*, pages 813–830. Springer, 2014. doi:10.1007/978-3-319-10428-7_58.
- [183] Bistra Dilkina, Lei Duan, and William S. Havens. Extending systematic local search for job shop scheduling problems. In Peter van Beek, editor, *Principles and Practice of Constraint Programming - CP 2005, 11th International Conference, CP 2005, Sitges, Spain, October 1-5, 2005, Proceedings*, volume 3709 of *Lecture Notes in Computer Science*, pages 762–766. Springer, 2005. doi:10.1007/11564751_60.
- [184] Mehmet Dincbas, Pascal Van Hentenryck, Helmut Simonis, Abderrahmane Aggoun, Thomas Graf, and Françoise Berthier. The constraint logic programming language CHIP. In *Proceedings of the International Conference on Fifth Generation Computer Systems, FGCS 1988, Tokyo, Japan, November 28-December 2, 1988*, pages 693–702. OHMSHA Ltd. Tokyo and Springer-Verlag, 1988.
- [185] Mehmet Dincbas, Helmut Simonis, and Pascal Van Hentenryck. Solving large combinatorial problems in logic programming. *J. Log. Program.*, 8(1):75–93, 1990. doi:10.1016/0743-1066(90)90052-7.
- [186] Ulrich Domdorf, Erwin Pesch, and Toän Phan Huy. *Machine Learning by Schedule Decomposition — Prospects for an Integration of AI and OR Techniques for Job Shop Scheduling*, page 773–798. Springer Berlin Heidelberg, 2003. URL: http://dx.doi.org/10.1007/978-3-642-18965-4_31, doi:10.1007/978-3-642-18965-4_31.
- [187] Grégoire Doms and Pascal Van Hentenryck. Gap reduction techniques for online stochastic project scheduling. In Laurent Perron and Michael A. Trick, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, 5th International Conference, CPAIOR 2008, Paris, France, May 20-23, 2008, Proceedings*, volume 5015 of *Lecture Notes in Computer Science*, pages 66–81. Springer, 2008. doi:10.1007/978-3-540-68155-7_8.
- [188] Ulrich Dorndorf, Toàn Phan Huy, and Erwin Pesch. *A Survey of Interval Capacity Consistency Tests for Time- and Resource-Constrained Scheduling*, page 213–238. Springer US, 1999. URL: http://dx.doi.org/10.1007/978-1-4615-5533-9_10, doi:10.1007/978-1-4615-5533-9_10.
- [189] Ulrich Dorndorf, Erwin Pesch, and Toàn Phan Huy. Recent developments in scheduling. In *Operations Research Proceedings 1998*, page 353–365. Springer Berlin Heidelberg, 1999. URL: http://dx.doi.org/10.1007/978-3-642-58409-1_35, doi:10.1007/978-3-642-58409-1_35.
- [190] Seyed Hossein Hashemi Doulabi, Louis-Martin Rousseau, and Gilles Pesant. A constraint programming-based column generation approach for operating room planning and scheduling. In Helmut Simonis, editor, *Integration of AI and OR Techniques in Constraint Programming - 11th International Conference, CPAIOR 2014, Cork, Ireland, May 19-23, 2014. Proceedings*, volume 8451 of *Lecture Notes in Computer Science*, pages 455–463. Springer, 2014. doi:10.1007/978-3-319-07046-9_32.

- [191] Seyed Hossein Hashemi Doulabi, Louis-Martin Rousseau, and Gilles Pesant. A constraint-programming-based branch-and-price-and-cut approach for operating room planning and scheduling. *INFORMS J. Comput.*, 28(3):432–448, 2016. URL: <https://doi.org/10.1287/ijoc.2015.0686>, doi:10.1287/IJOC.2015.0686.
- [192] Emrah B. Edis and Ceyda Oguz. Parallel machine scheduling with additional resources: A lagrangian-based constraint programming approach. In Tobias Achterberg and J. Christopher Beck, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems - 8th International Conference, CPAIOR 2011, Berlin, Germany, May 23-27, 2011. Proceedings*, volume 6697 of *Lecture Notes in Computer Science*, pages 92–98. Springer, 2011. doi:10.1007/978-3-642-21311-3_10.
- [193] Emrah B. Edis and Irem Ozkarahan. A combined integer/constraint programming approach to a resource-constrained parallel machine scheduling problem with machine eligibility restrictions. *Engineering Optimization*, 43(2):135–157, February 2011. URL: <http://dx.doi.org/10.1080/03052151003759117>, doi:10.1080/03052151003759117.
- [194] Steven J. Edwards, Davaatseren Baatar, Kate Smith-Miles, and Andreas T. Ernst. Symmetry breaking of identical projects in the high-multiplicity rcpsp/max. *Journal of the Operational Research Society*, 72(8):1822–1843, April 2019. URL: <http://dx.doi.org/10.1080/01605682.2019.1595192>, doi:10.1080/01605682.2019.1595192.
- [195] Nikolaos Efthymiou and Neil Yorke-Smith. Predicting the optimal period for cyclic hoist scheduling problems. In André A. Ciré, editor, *Integration of Constraint Programming, Artificial Intelligence, and Operations Research - 20th International Conference, CPAIOR 2023, Nice, France, May 29 - June 1, 2023, Proceedings*, volume 13884 of *Lecture Notes in Computer Science*, pages 238–253. Springer, 2023. doi:10.1007/978-3-031-33271-5_16.
- [196] Özgün Elçi and John N. Hooker. Stochastic planning and scheduling with logic-based benders decomposition. *INFORMS Journal on Computing*, 34(5):2428–2442, September 2022. URL: <http://dx.doi.org/10.1287/ijoc.2022.1184>, doi:10.1287/ijoc.2022.1184.
- [197] Abdallah Elkhyari. *Outils d’aide à la décision pour des problèmes d’ordonnancement dynamiques*. Theses, Université de Nantes, November 2003. URL: <https://theses.hal.science/tel-00008377>.
- [198] Abdallah Elkhyari, Christelle Guéret, and Narendra Jussien. Conflict-based repair techniques for solving dynamic scheduling problems. In Pascal Van Hentenryck, editor, *Principles and Practice of Constraint Programming - CP 2002, 8th International Conference, CP 2002, Ithaca, NY, USA, September 9-13, 2002, Proceedings*, volume 2470 of *Lecture Notes in Computer Science*, pages 702–707. Springer, 2002. doi:10.1007/3-540-46135-3_49.
- [199] Abdallah Elkhyari, Christelle Guéret, and Narendra Jussien. Solving dynamic resource constraint project scheduling problems using new constraint programming tools. In Edmund K. Burke and Patrick De Causmaecker, editors, *Practice and Theory of Automated Timetabling IV, 4th International Conference, PATAT 2002, Gent, Belgium, August 21-23, 2002, Selected Revised Papers*, volume 2740 of *Lecture Notes in Computer Science*, pages 39–62. Springer, 2002. doi:10.1007/978-3-540-45157-0_3.
- [200] Simon Emde, Shohre Zehtabian, and Yann Disser. Point-to-point and milk run delivery scheduling: models, complexity results, and algorithms based on benders decomposition. *Annals of Operations Research*, 322(1):467–496, August 2022. URL: <http://dx.doi.org/10.1007/s10479-022-04891-1>, doi:10.1007/s10479-022-04891-1.
- [201] M. Anton Ertl and Andreas Krall. Optimal instruction scheduling using constraint logic programming. In Jan Maluszynski and Martin Wirsing, editors, *Programming Language Implementation and Logic Programming, 3rd International Symposium, PLILP’91, Passau, Germany, August 26-28, 1991, Proceedings*, volume 528 of *Lecture Notes in Computer Science*, pages 75–86. Springer, 1991. doi:10.1007/3-540-54444-5_89.

- [202] Teresa Escobet, Vicenç Puig, Joseba Quevedo, Pere Palà-Schönwälder, Juli Romera, and W. Adelman. Optimal batch scheduling of a multiproduct dairy process using a combined optimization/constraint programming approach. *Comput. Chem. Eng.*, 124:228–237, 2019. URL: <https://doi.org/10.1016/j.compchemeng.2018.08.040>, doi:10.1016/J.COMPCHENG.2018.08.040.
- [203] Alireza Etminaniesfahani, Hanyu Gu, Leila Moslemi Naeni, and Amir Salehipour. A forward-backward relax-and-solve algorithm for the resource-constrained project scheduling problem. *SN Computer Science*, 4(2), December 2022. URL: <http://dx.doi.org/10.1007/s42979-022-01487-1>, doi:10.1007/s42979-022-01487-1.
- [204] Caroline Even, Andreas Schutt, and Pascal Van Hentenryck. A constraint programming approach for non-preemptive evacuation scheduling. In Gilles Pesant, editor, *Principles and Practice of Constraint Programming - 21st International Conference, CP 2015, Cork, Ireland, August 31 - September 4, 2015, Proceedings*, volume 9255 of *Lecture Notes in Computer Science*, pages 574–591. Springer, 2015. doi:10.1007/978-3-319-23219-5_40.
- [205] Caroline Even, Andreas Schutt, and Pascal Van Hentenryck. A constraint programming approach for non-preemptive evacuation scheduling. *CoRR*, abs/1505.02487, 2015. URL: <http://arxiv.org/abs/1505.02487>, arXiv:1505.02487.
- [206] Hamed Fahimi. *Efficient algorithms to solve scheduling problems with a variety of optimization criteria*. PhD thesis, Université Laval, Quebec, Canada, 2016. URL: http://cp2014.a4cp.org/sites/default/files/hamed_fahimi_-_efficient_algorithms_to_solve_scheduling_problems_with_a_variety_of_optimization_criteria.pdf.
- [207] Hamed Fahimi, Yanick Ouellet, and Claude-Guy Quimper. Linear-time filtering algorithms for the disjunctive constraint and a quadratic filtering algorithm for the cumulative not-first not-last. *Constraints An Int. J.*, 23(3):272–293, 2018. URL: <https://doi.org/10.1007/s10601-018-9282-9>, doi:10.1007/S10601-018-9282-9.
- [208] Hamed Fahimi and Claude-Guy Quimper. Overload-checking and edge-finding for robust cumulative scheduling. *INFORMS Journal on Computing*, 35(6):1419–1438, November 2023. URL: <http://dx.doi.org/10.1287/ijoc.2021.0138>, doi:10.1287/ijoc.2021.0138.
- [209] Moreno Falaschi, Maurizio Gabbrielli, Kim Marriott, and Catuscia Palamidessi. Constraint logic programming with dynamic scheduling: A semantics based on closure operators. *Inf. Comput.*, 137(1):41–67, 1997. URL: <https://doi.org/10.1006/inco.1997.2638>, doi:10.1006/INCO.1997.2638.
- [210] Abdellah El Fallahi, El Yaakoubi Anass, and Mohammad Cherkaoui. Tabu search and constraint programming-based approach for a real scheduling and routing problem. *International Journal of Applied Management Science*, 2020. URL: <https://api.semanticscholar.org/CorpusID:213449737>.
- [211] Huali Fan, Hegen Xiong, and Mark Goh. Genetic programming-based hyper-heuristic approach for solving dynamic job shop scheduling problem with extended technical precedence constraints. *Comput. Oper. Res.*, 134:105401, 2021. URL: <https://doi.org/10.1016/j.cor.2021.105401>, doi:10.1016/J.COR.2021.105401.
- [212] Azadeh Farsi, S. Ali Torabi, and Mahdi Mokhtarzadeh. Integrated surgery scheduling by constraint programming and meta-heuristics. *International Journal of Management Science and Engineering Management*, 18:292 – 304, 2022. URL: <https://api.semanticscholar.org/CorpusID:250301745>.
- [213] Soroush Fatemi-Anaraki, Reza Tavakkoli-Moghaddam, Mehdi Foumani, and Behdin Vahedi-Nouri. Scheduling of multi-robot job shop systems in dynamic environments: Mixed-integer linear programming and constraint programming approaches. *Omega*, 115:102770, February 2023. URL: <http://dx.doi.org/10.1016/j.omega.2022.102770>, doi:10.1016/j.omega.2022.102770.
- [214] Mohammad M. Fazel-Zarandi and J. Christopher Beck. Using logic-based benders decomposition to solve the capacity- and distance-constrained plant location problem. *INFORMS Journal on Computing*, 24(3):387–398, August 2012. URL: <http://dx.doi.org/10.1287/ijoc.1110.0458>, doi:10.1287/ijoc.1110.0458.

- [215] Séverine Betmbe Fetgo and Clémentin Tayou Djamégni. Horizontally elastic edge-finder algorithm for cumulative resource constraint revisited. *Oper. Res. Forum*, 3(4), 2022. URL: <https://doi.org/10.1007/s43069-022-00172-6>, doi:10.1007/S43069-022-00172-6.
- [216] Filippo Focacci, Philippe Laborie, and Wim Nuijten. Solving scheduling problems with setup times and alternative resources. In Steve A. Chien, Subbarao Kambhampati, and Craig A. Knoblock, editors, *Proceedings of the Fifth International Conference on Artificial Intelligence Planning Systems, Breckenridge, CO, USA, April 14-17, 2000*, pages 92–101. AAAI, 2000. URL: <http://www.aaai.org/Library/AIPS/2000/aips00-010.php>.
- [217] Daniel Fontaine, Laurent D. Michel, and Pascal Van Hentenryck. Parallel composition of scheduling solvers. In Claude-Guy Quimper, editor, *Integration of AI and OR Techniques in Constraint Programming - 13th International Conference, CPAIOR 2016, Banff, AB, Canada, May 29 - June 1, 2016, Proceedings*, volume 9676 of *Lecture Notes in Computer Science*, pages 159–169. Springer, 2016. doi:10.1007/978-3-319-33954-2_12.
- [218] M.A. Forbes, M.G. Harris, H.M. Jansen, F.A. van der Schoot, and T. Taimre. Combining optimisation and simulation using logic-based benders decomposition. *European Journal of Operational Research*, 312(3):840–854, February 2024. URL: <http://dx.doi.org/10.1016/j.ejor.2023.07.032>, doi:10.1016/j.ejor.2023.07.032.
- [219] Jérôme Fortin, Pawel Zielinski, Didier Dubois, and Hélène Fargier. Interval analysis in scheduling. In Peter van Beek, editor, *Principles and Practice of Constraint Programming - CP 2005, 11th International Conference, CP 2005, Sitges, Spain, October 1-5, 2005, Proceedings*, volume 3709 of *Lecture Notes in Computer Science*, pages 226–240. Springer, 2005. doi:10.1007/11564751_19.
- [220] Mark S. Fox, Bradley P. Allen, and Gary Strohm. Job-shop scheduling: An investigation in constraint-directed reasoning. In David L. Waltz, editor, *Proceedings of the National Conference on Artificial Intelligence, Pittsburgh, PA, USA, August 18-20, 1982*, pages 155–158. AAAI Press, 1982. URL: <http://www.aaai.org/Library/AAAI/1982/aaai82-037.php>.
- [221] Jeremy Frank and Elif Kürklü. Mixed discrete and continuous algorithms for scheduling airborne astronomy observations. In Roman Barták and Michela Milano, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, Second International Conference, CPAIOR 2005, Prague, Czech Republic, May 30 - June 1, 2005, Proceedings*, volume 3524 of *Lecture Notes in Computer Science*, pages 183–200. Springer, 2005. doi:10.1007/11493853_15.
- [222] Gerhard Friedrich, Melanie Frühstück, Vera Mersheeva, Anna Ryabokon, Maria Sander, Andreas Starzacher, and Erich Teppan. Representing production scheduling with constraint answer set programming. In Marco E. Lübbecke, Arie Koster, Peter Letmathe, Reinhard Madlener, Britta Peis, and Grit Walther, editors, *Operations Research Proceedings 2014, Selected Papers of the Annual International Conference of the German Operations Research Society (GOR), RWTH Aachen University, Germany, September 2-5, 2014*, pages 159–165. Springer, 2014. doi:10.1007/978-3-319-28697-6_23.
- [223] Sara Frimodig and Christian Schulte. Models for radiation therapy patient scheduling. In Thomas Schiex and Simon de Givry, editors, *Principles and Practice of Constraint Programming - 25th International Conference, CP 2019, Stamford, CT, USA, September 30 - October 4, 2019, Proceedings*, volume 11802 of *Lecture Notes in Computer Science*, pages 421–437. Springer, 2019. doi:10.1007/978-3-030-30048-7_25.
- [224] Aurélien Froger. *Maintenance scheduling in the electricity industry : a particular focus on a problem rising in the onshore wind industry*. Theses, Université d’Angers, December 2016. URL: <https://theses.hal.science/tel-01440836>.
- [225] Nikolaus Frohner, Stephan Teuschl, and Günther R. Raidl. Casual employee scheduling with constraint programming and metaheuristics. In Roberto Moreno-Díaz, Franz Pichler, and Alexis Quesada-Arencibia, editors, *Computer Aided Systems Theory - EUROCAST 2019 - 17th International Conference, Las Palmas de Gran Canaria, Spain, February 17-22, 2019, Revised Selected Papers, Part I*, volume 12013 of *Lecture Notes in Computer Science*, pages 279–287. Springer, 2019. doi:10.1007/978-3-030-45093-9_34.

- [226] Daniel Frost and Rina Dechter. Optimizing with constraints: A case study in scheduling maintenance of electric power units. In Michael J. Maher and Jean-Francois Puget, editors, *Principles and Practice of Constraint Programming - CP98, 4th International Conference, Pisa, Italy, October 26-30, 1998, Proceedings*, volume 1520 of *Lecture Notes in Computer Science*, page 469. Springer, 1998. doi:10.1007/3-540-49481-2_40.
- [227] Cristian Galleguillos, Zeynep Kiziltan, Alina Sirbu, and Özalp Babaoglu. Constraint programming-based job dispatching for modern HPC applications. In Thomas Schiex and Simon de Givry, editors, *Principles and Practice of Constraint Programming - 25th International Conference, CP 2019, Stamford, CT, USA, September 30 - October 4, 2019, Proceedings*, volume 11802 of *Lecture Notes in Computer Science*, pages 438–455. Springer, 2019. doi:10.1007/978-3-030-30048-7_26.
- [228] Antoine Gargani and Philippe Refalo. An efficient model and strategy for the steel mill slab design problem. In Christian Bessiere, editor, *Principles and Practice of Constraint Programming - CP 2007, 13th International Conference, CP 2007, Providence, RI, USA, September 23-27, 2007, Proceedings*, volume 4741 of *Lecture Notes in Computer Science*, pages 77–89. Springer, 2007. doi:10.1007/978-3-540-74970-7_8.
- [229] Antonio Garrido, Marlene Arangú, and Eva Onaindia. A constraint programming formulation for planning: from plan scheduling to plan generation. *J. Sched.*, 12(3):227–256, 2009. URL: <https://doi.org/10.1007/s10951-008-0083-7>, doi:10.1007/S10951-008-0083-7.
- [230] Antonio Garrido, Eva Onaindia, and Óscar Sapena. Planning and scheduling in an e-learning environment. A constraint-programming-based approach. *Eng. Appl. Artif. Intell.*, 21(5):733–743, 2008. URL: <https://doi.org/10.1016/j.engappai.2008.03.009>, doi:10.1016/J.ENGAPPAI.2008.03.009.
- [231] Steven Gay, Renaud Hartert, Christophe Lecoutre, and Pierre Schaus. Conflict ordering search for scheduling problems. In Gilles Pesant, editor, *Principles and Practice of Constraint Programming - 21st International Conference, CP 2015, Cork, Ireland, August 31 - September 4, 2015, Proceedings*, volume 9255 of *Lecture Notes in Computer Science*, pages 140–148. Springer, 2015. doi:10.1007/978-3-319-23219-5_10.
- [232] Steven Gay, Renaud Hartert, and Pierre Schaus. Simple and scalable time-table filtering for the cumulative constraint. In Gilles Pesant, editor, *Principles and Practice of Constraint Programming - 21st International Conference, CP 2015, Cork, Ireland, August 31 - September 4, 2015, Proceedings*, volume 9255 of *Lecture Notes in Computer Science*, pages 149–157. Springer, 2015. doi:10.1007/978-3-319-23219-5_11.
- [233] Steven Gay, Renaud Hartert, and Pierre Schaus. Time-table disjunctive reasoning for the cumulative constraint. In Laurent Michel, editor, *Integration of AI and OR Techniques in Constraint Programming - 12th International Conference, CPAIOR 2015, Barcelona, Spain, May 18-22, 2015, Proceedings*, volume 9075 of *Lecture Notes in Computer Science*, pages 157–172. Springer, 2015. doi:10.1007/978-3-319-18008-3_11.
- [234] Steven Gay, Pierre Schaus, and Vivian De Smedt. Continuous casting scheduling with constraint programming. In Barry O’Sullivan, editor, *Principles and Practice of Constraint Programming - 20th International Conference, CP 2014, Lyon, France, September 8-12, 2014. Proceedings*, volume 8656 of *Lecture Notes in Computer Science*, pages 831–845. Springer, 2014. doi:10.1007/978-3-319-10428-7_59.
- [235] Ridvan Gedik, Darshan Kalathia, Gokhan Egilmez, and Emre Kirac. A constraint programming approach for solving unrelated parallel machine scheduling problem. *Comput. Ind. Eng.*, 121:139–149, 2018. URL: <https://doi.org/10.1016/j.cie.2018.05.014>, doi:10.1016/J.CIE.2018.05.014.
- [236] Tobias Geibinger, Lucas Kletzander, Matthias Krainz, Florian Mischek, Nysret Musliu, and Felix Winter. Physician scheduling during a pandemic. In Peter J. Stuckey, editor, *Integration of Constraint Programming, Artificial Intelligence, and Operations Research - 18th International Conference, CPAIOR 2021, Vienna, Austria, July 5-8, 2021, Proceedings*, volume 12735 of *Lecture Notes in Computer Science*, pages 456–465. Springer, 2021. doi:10.1007/978-3-030-78230-6_29.
- [237] Tobias Geibinger, Florian Mischek, and Nysret Musliu. Investigating constraint programming and hybrid methods for real world industrial test laboratory scheduling. *CoRR*, abs/1911.04766, 2019. URL: <http://arxiv.org/abs/1911.04766>, arXiv:1911.04766.

- [238] Tobias Geibinger, Florian Mischek, and Nysret Musliu. Investigating constraint programming for real world industrial test laboratory scheduling. In Louis-Martin Rousseau and Kostas Stergiou, editors, *Integration of Constraint Programming, Artificial Intelligence, and Operations Research - 16th International Conference, CPAIOR 2019, Thessaloniki, Greece, June 4-7, 2019, Proceedings*, volume 11494 of *Lecture Notes in Computer Science*, pages 304–319. Springer, 2019. doi:10.1007/978-3-030-19212-9_20.
- [239] Tobias Geibinger, Florian Mischek, and Nysret Musliu. Constraint logic programming for real-world test laboratory scheduling. In *Thirty-Fifth AAAI Conference on Artificial Intelligence, AAAI 2021, Thirty-Third Conference on Innovative Applications of Artificial Intelligence, IAAI 2021, The Eleventh Symposium on Educational Advances in Artificial Intelligence, EAAI 2021, Virtual Event, February 2-9, 2021*, pages 6358–6366. AAAI Press, 2021. URL: <https://doi.org/10.1609/aaai.v35i7.16789>, doi:10.1609/AAAI.V35I7.16789.
- [240] Marc Geitz, Cristian Grozea, Wolfgang Steigerwald, Robin Stöhr, and Armin Wolf. Solving the extended job shop scheduling problem with agvs - classical and quantum approaches. In Pierre Schaus, editor, *Integration of Constraint Programming, Artificial Intelligence, and Operations Research - 19th International Conference, CPAIOR 2022, Los Angeles, CA, USA, June 20-23, 2022, Proceedings*, volume 13292 of *Lecture Notes in Computer Science*, pages 120–137. Springer, 2022. doi:10.1007/978-3-031-08011-1_10.
- [241] Mirco Gelain, Maria Silvia Pini, Francesca Rossi, Kristen Brent Venable, and Toby Walsh. A local search approach for incomplete soft constraint problems: Experimental results on meeting scheduling problems. In Domenico Salvagnin and Michele Lombardi, editors, *Integration of AI and OR Techniques in Constraint Programming - 14th International Conference, CPAIOR 2017, Padua, Italy, June 5-8, 2017, Proceedings*, volume 10335 of *Lecture Notes in Computer Science*, pages 403–418. Springer, 2017. doi:10.1007/978-3-319-59776-8_32.
- [242] Grigori German. *Constraint programming for lot-sizing problems*. Theses, Université Grenoble Alpes, March 2018. URL: <https://theses.hal.science/tel-01896325>.
- [243] Ulrich Geske. Railway scheduling with declarative constraint programming. In Masanobu Umeda, Armin Wolf, Oskar Bartenstein, Ulrich Geske, Dietmar Seipel, and Osamu Takata, editors, *Declarative Programming for Knowledge Management, 16th International Conference on Applications of Declarative Programming and Knowledge Management, INAP 2005, Fukuoka, Japan, October 22-24, 2005, Revised Selected Papers*, volume 4369 of *Lecture Notes in Computer Science*, pages 117–134. Springer, 2005. doi:10.1007/11963578_10.
- [244] Shirin Ghasemi, Reza Tavakkoli-Moghaddam, and Mahdi Hamid. Operating room scheduling by emphasising human factors and dynamic decision-making styles: a constraint programming method. *International Journal of Systems Science: Operations & Logistics*, 10(1), June 2023. URL: <http://dx.doi.org/10.1080/23302674.2023.2224509>, doi:10.1080/23302674.2023.2224509.
- [245] Katherine Giles and Willem-Jan van Hoeve. Solving a supply-delivery scheduling problem with constraint programming. In Michel Rueher, editor, *Principles and Practice of Constraint Programming - 22nd International Conference, CP 2016, Toulouse, France, September 5-9, 2016, Proceedings*, volume 9892 of *Lecture Notes in Computer Science*, pages 602–617. Springer, 2016. doi:10.1007/978-3-319-44953-1_38.
- [246] Vincent Gingras and Claude-Guy Quimper. Generalizing the edge-finder rule for the cumulative constraint. In Subbarao Kambhampati, editor, *Proceedings of the Twenty-Fifth International Joint Conference on Artificial Intelligence, IJCAI 2016, New York, NY, USA, 9-15 July 2016*, pages 3103–3109. IJCAI/AAAI Press, 2016. URL: <http://www.ijcai.org/Abstract/16/440>.
- [247] Daniel Godard, Philippe Laborie, and Wim Nuijten. Randomized large neighborhood search for cumulative scheduling. In Susanne Biundo, Karen L. Myers, and Kanna Rajan, editors, *Proceedings of the Fifteenth International Conference on Automated Planning and Scheduling (ICAPS 2005), June 5-10 2005, Monterey, California, USA*, pages 81–89. AAAI, 2005. URL: <http://www.aaai.org/Library/ICAPS/2005/icaps05-009.php>.

- [248] Arthur Godet. *Sur le tri de tâches pour résoudre des problèmes d'ordonnancement avec la programmation par contraintes. (On the use of tasks ordering to solve scheduling problems with constraint programming)*. PhD thesis, IMT Atlantique Bretagne Pays de la Loire, Brest, France, 2021. URL: <https://tel.archives-ouvertes.fr/tel-03681868>.
- [249] Arthur Godet, Xavier Lorca, Emmanuel Hebrard, and Gilles Simonin. Using approximation within constraint programming to solve the parallel machine scheduling problem with additional unit resources. In *The Thirty-Fourth AAAI Conference on Artificial Intelligence, AAAI 2020, The Thirty-Second Innovative Applications of Artificial Intelligence Conference, IAAI 2020, The Tenth AAAI Symposium on Educational Advances in Artificial Intelligence, EAAI 2020, New York, NY, USA, February 7-12, 2020*, pages 1512–1519. AAAI Press, 2020. URL: <https://doi.org/10.1609/aaai.v34i02.5510>, doi:10.1609/AAAI.V34I02.5510.
- [250] Vikas Goel, M. Slusky, Willem-Jan van Hoeve, Kevin C. Furman, and Yufen Shao. Constraint programming for LNG ship scheduling and inventory management. *Eur. J. Oper. Res.*, 241(3):662–673, 2015. URL: <https://doi.org/10.1016/j.ejor.2014.09.048>, doi:10.1016/J.EJOR.2014.09.048.
- [251] Burak Gökgür, Brahim Hnich, and Selin Özpeynirci. Parallel machine scheduling with tool loading: a constraint programming approach. *Int. J. Prod. Res.*, 56(16):5541–5557, 2018. doi:10.1080/00207543.2017.1421781.
- [252] Adrian Goldwaser and Andreas Schutt. Optimal torpedo scheduling. In J. Christopher Beck, editor, *Principles and Practice of Constraint Programming - 23rd International Conference, CP 2017, Melbourne, VIC, Australia, August 28 - September 1, 2017, Proceedings*, volume 10416 of *Lecture Notes in Computer Science*, pages 338–353. Springer, 2017. doi:10.1007/978-3-319-66158-2_22.
- [253] Adrian Goldwaser and Andreas Schutt. Optimal torpedo scheduling. *J. Artif. Intell. Res.*, 63:955–986, 2018. URL: <https://doi.org/10.1613/jair.1.11268>, doi:10.1613/JAIR.1.11268.
- [254] Hans-Joachim Goltz. Reducing domains for search in CLP(FD) and its application to job-shop scheduling. In Ugo Montanari and Francesca Rossi, editors, *Principles and Practice of Constraint Programming - CP'95, First International Conference, CP'95, Cassis, France, September 19-22, 1995, Proceedings*, volume 976 of *Lecture Notes in Computer Science*, pages 549–562. Springer, 1995. doi:10.1007/3-540-60299-2_33.
- [255] Matthew C. Gombolay, Ronald J. Wilcox, and Julie A. Shah. Fast scheduling of robot teams performing tasks with temporospatial constraints. *IEEE Transactions on Robotics*, 34(1):220–239, February 2018. URL: <http://dx.doi.org/10.1109/tro.2018.2795034>, doi:10.1109/tro.2018.2795034.
- [256] Carla P. Gomes, Willem-Jan van Hoeve, and Bart Selman. Constraint programming for distributed planning and scheduling. In *Distributed Plan and Schedule Management, Papers from the 2006 AAAI Spring Symposium, Technical Report SS-06-04, Stanford, California, USA, March 27-29, 2006*, pages 157–158. AAAI, 2006. URL: <http://www.aaai.org/Library/Symposia/Spring/2006/ss06-04-024.php>.
- [257] Francisco Regis Abreu Gomes and Geraldo Robson Mateus. Improved combinatorial benders decomposition for a scheduling problem with unrelated parallel machines. *Journal of Applied Mathematics*, 2017:1–10, 2017. URL: <http://dx.doi.org/10.1155/2017/9452762>, doi:10.1155/2017/9452762.
- [258] Diarmuid Grimes and Emmanuel Hebrard. Job shop scheduling with setup times and maximal time-lags: A simple constraint programming approach. In Andrea Lodi, Michela Milano, and Paolo Toth, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, 7th International Conference, CPAIOR 2010, Bologna, Italy, June 14-18, 2010. Proceedings*, volume 6140 of *Lecture Notes in Computer Science*, pages 147–161. Springer, 2010. doi:10.1007/978-3-642-13520-0_19.
- [259] Diarmuid Grimes and Emmanuel Hebrard. Models and strategies for variants of the job shop scheduling problem. In Jimmy Ho-Man Lee, editor, *Principles and Practice of Constraint Programming - CP 2011 - 17th International Conference, CP 2011, Perugia, Italy, September 12-16, 2011. Proceedings*, volume 6876 of *Lecture Notes in Computer Science*, pages 356–372. Springer, 2011. doi:10.1007/978-3-642-23786-7_28.

- [260] Diarmuid Grimes and Emmanuel Hebrard. Solving variants of the job shop scheduling problem through conflict-directed search. *INFORMS J. Comput.*, 27(2):268–284, 2015. URL: <https://doi.org/10.1287/ijoc.2014.0625>, doi:10.1287/IJOC.2014.0625.
- [261] Diarmuid Grimes, Emmanuel Hebrard, and Arnaud Malapert. Closing the open shop: Contradicting conventional wisdom. In Ian P. Gent, editor, *Principles and Practice of Constraint Programming - CP 2009, 15th International Conference, CP 2009, Lisbon, Portugal, September 20-24, 2009, Proceedings*, volume 5732 of *Lecture Notes in Computer Science*, pages 400–408. Springer, 2009. doi:10.1007/978-3-642-04244-7_33.
- [262] Diarmuid Grimes, Georgiana Ifrim, Barry O’Sullivan, and Helmut Simonis. Analyzing the impact of electricity price forecasting on energy cost-aware scheduling. *Sustain. Comput. Informatics Syst.*, 4(4):276–291, 2014. URL: <https://doi.org/10.1016/j.suscom.2014.08.009>, doi:10.1016/J.SUSCOM.2014.08.009.
- [263] Lucas Groleaz. *The Group Cumulative Scheduling Problem*. Theses, Université de Lyon, June 2021. URL: <https://hal.science/tel-03266690>.
- [264] Lucas Groleaz, Samba Ndojh Ndiaye, and Christine Solnon. ACO with automatic parameter selection for a scheduling problem with a group cumulative constraint. In Carlos Artemio Coello Coello, editor, *GECCO ’20: Genetic and Evolutionary Computation Conference, Cancún Mexico, July 8-12, 2020*, pages 13–21. ACM, 2020. doi:10.1145/3377930.3389818.
- [265] Lucas Groleaz, Samba Ndojh Ndiaye, and Christine Solnon. Solving the group cumulative scheduling problem with CPO and ACO. In Helmut Simonis, editor, *Principles and Practice of Constraint Programming - 26th International Conference, CP 2020, Louvain-la-Neuve, Belgium, September 7-11, 2020, Proceedings*, volume 12333 of *Lecture Notes in Computer Science*, pages 620–636. Springer, 2020. doi:10.1007/978-3-030-58475-7_36.
- [266] Flavius Gruian and Krzysztof Kuchcinski. Operation binding and scheduling for low power using constraint logic programming. In *24th EUROMICRO ’98 Conference, Engineering Systems and Software for the Next Decade, 25-27 August 1998, Vasteras, Sweden*, pages 10083–10090. IEEE Computer Society, 1998. doi:10.1109/EURMIC.1998.711781.
- [267] Hanyu Gu, Andreas Schutt, and Peter J. Stuckey. A lagrangian relaxation based forward-backward improvement heuristic for maximising the net present value of resource-constrained projects. In Carla P. Gomes and Meinolf Sellmann, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, 10th International Conference, CPAIOR 2013, Yorktown Heights, NY, USA, May 18-22, 2013. Proceedings*, volume 7874 of *Lecture Notes in Computer Science*, pages 340–346. Springer, 2013. doi:10.1007/978-3-642-38171-3_24.
- [268] Hanyu Gu, Andreas Schutt, Peter J. Stuckey, Mark G. Wallace, and Geoffrey Chu. *Exact and Heuristic Methods for the Resource-Constrained Net Present Value Problem*, page 299–318. Springer International Publishing, October 2014. URL: http://dx.doi.org/10.1007/978-3-319-05443-8_14, doi:10.1007/978-3-319-05443-8_14.
- [269] Hanyu Gu, Peter J. Stuckey, and Mark G. Wallace. Maximising the net present value of large resource-constrained projects. In Michela Milano, editor, *Principles and Practice of Constraint Programming - 18th International Conference, CP 2012, Québec City, QC, Canada, October 8-12, 2012. Proceedings*, volume 7514 of *Lecture Notes in Computer Science*, pages 767–781. Springer, 2012. doi:10.1007/978-3-642-33558-7_55.
- [270] Peng Guo, Xun He, Yulin Luan, and Yi Wang. Logic-based benders decomposition for gantry crane scheduling with transferring position constraints in a rail-road container terminal. *Engineering Optimization*, 53(1):86–106, January 2020. URL: <http://dx.doi.org/10.1080/0305215x.2019.1699919>, doi:10.1080/0305215x.2019.1699919.
- [271] Penghui Guo and Jianjun Zhu. Capacity reservation for humanitarian relief: A logic-based benders decomposition method with subgradient cut. *European Journal of Operational Research*, 311(3):942–970, December 2023. URL: <http://dx.doi.org/10.1016/j.ejor.2023.06.006>, doi:10.1016/j.ejor.2023.06.006.

- [272] Seyda Gür, Mehmet Pinarbasi, Hacı Mehmet Alakas, and Tamer Eren. Operating room scheduling with surgical team: a new approach with constraint programming and goal programming. *Central Eur. J. Oper. Res.*, 31(4):1061–1085, 2023. URL: <https://doi.org/10.1007/s10100-022-00835-z>, doi:10.1007/S10100-022-00835-Z.
- [273] Olivier Guyon, Pierre Lemaire, Éric Pinson, and David Rivreau. Solving an integrated job-shop problem with human resource constraints. *Annals of Operations Research*, 213(1):147–171, May 2012. URL: <http://dx.doi.org/10.1007/s10479-012-1132-3>, doi:10.1007/s10479-012-1132-3.
- [274] Nizar El Hachemi, Michel Gendreau, and Louis-Martin Rousseau. A hybrid constraint programming approach to the log-truck scheduling problem. *Ann. Oper. Res.*, 184(1):163–178, 2011. URL: <https://doi.org/10.1007/s10479-010-0698-x>, doi:10.1007/S10479-010-0698-X.
- [275] Andy Ham. Integrated scheduling of m-truck, m-drone, and m-depot constrained by time-window, drop-pickup, and m-visit using constraint programming. *Transportation Research Part C: Emerging Technologies*, 2018. URL: <https://api.semanticscholar.org/CorpusID:116853255>.
- [276] Andy Ham. Scheduling of dual resource constrained lithography production: Using cp and mip/cp. *IEEE Transactions on Semiconductor Manufacturing*, 31(1):52–61, February 2018. URL: <http://dx.doi.org/10.1109/tsm.2017.2768899>, doi:10.1109/tsm.2017.2768899.
- [277] Andy Ham, Myoung-Ju Park, and Kyung Min Kim. Energy-aware flexible job shop scheduling using mixed integer programming and constraint programming. *Mathematical Problems in Engineering*, 2021. URL: <https://api.semanticscholar.org/CorpusID:237898414>.
- [278] Andy M. Ham and Eray Cakici. Flexible job shop scheduling problem with parallel batch processing machines: Mip and cp approaches. *Computers & Industrial Engineering*, 102:160–165, December 2016. URL: <http://dx.doi.org/10.1016/j.cie.2016.11.001>, doi:10.1016/j.cie.2016.11.001.
- [279] Claire Hanen, Alix Munier Kordon, and Theo Pedersen. Two deadline reduction algorithms for scheduling dependent tasks on parallel processors. In Peter J. Stuckey, editor, *Integration of Constraint Programming, Artificial Intelligence, and Operations Research - 18th International Conference, CPAIOR 2021, Vienna, Austria, July 5-8, 2021, Proceedings*, volume 12735 of *Lecture Notes in Computer Science*, pages 214–230. Springer, 2021. doi:10.1007/978-3-030-78230-6_14.
- [280] Iiro Harjunoski and Ignacio E. Grossmann. Decomposition techniques for multistage scheduling problems using mixed-integer and constraint programming methods. *Computers & Chemical Engineering*, 26(11):1533–1552, November 2002. URL: [http://dx.doi.org/10.1016/s0098-1354\(02\)00100-x](http://dx.doi.org/10.1016/s0098-1354(02)00100-x), doi:10.1016/s0098-1354(02)00100-x.
- [281] Iiro Harjunoski, Christos T. Maravelias, Peter Bongers, Pedro M. Castro, Sebastian Engell, Ignacio E. Grossmann, John N. Hooker, Carlos Méndez, Guido Sand, and John Wassick. Scope for industrial applications of production scheduling models and solution methods. *Computers & Chemical Engineering*, 62:161–193, March 2014. URL: <http://dx.doi.org/10.1016/j.compchemeng.2013.12.001>, doi:10.1016/j.compchemeng.2013.12.001.
- [282] Sönke Hartmann and Dirk Briskorn. A survey of variants and extensions of the resource-constrained project scheduling problem. *European Journal of Operational Research*, 207(1):1–14, November 2010. URL: <http://dx.doi.org/10.1016/j.ejor.2009.11.005>, doi:10.1016/j.ejor.2009.11.005.
- [283] Sönke Hartmann and Dirk Briskorn. An updated survey of variants and extensions of the resource-constrained project scheduling problem. *European Journal of Operational Research*, 297(1):1–14, February 2022. URL: <http://dx.doi.org/10.1016/j.ejor.2021.05.004>, doi:10.1016/j.ejor.2021.05.004.
- [284] Viktoria A. Hauder, Andreas Beham, Sebastian Raggl, Sophie N. Parragh, and Michael Affenzeller. On constraint programming for a new flexible project scheduling problem with resource constraints. *CoRR*, abs/1902.09244, 2019. URL: <http://arxiv.org/abs/1902.09244>, arXiv:1902.09244.
- [285] Viktoria A. Hauder, Andreas Beham, Sebastian Raggl, Sophie N. Parragh, and Michael Affenzeller. Resource-constrained multi-project scheduling with activity and time flexibility. *Computers & Industrial Engineering*, 150:106857, December 2020. URL: <http://dx.doi.org/10.1016/j.cie.2020.106857>, doi:10.1016/j.cie.2020.106857.

- [286] Shan He, Mark Wallace, Graeme Gange, Ariel Liebman, and Campbell Wilson. A fast and scalable algorithm for scheduling large numbers of devices under real-time pricing. In John N. Hooker, editor, *Principles and Practice of Constraint Programming - 24th International Conference, CP 2018, Lille, France, August 27-31, 2018, Proceedings*, volume 11008 of *Lecture Notes in Computer Science*, pages 649–666. Springer, 2018. doi:10.1007/978-3-319-98334-9_42.
- [287] Emmanuel Hebrard, Christian Artigues, Pierre Lopez, Arnaud Lusson, Steve A. Chien, Adrien Maillard, and Gregg R. Rabideau. An efficient approach to data transfer scheduling for long range space exploration. In Luc De Raedt, editor, *Proceedings of the Thirty-First International Joint Conference on Artificial Intelligence, IJCAI 2022, Vienna, Austria, 23-29 July 2022*, pages 4635–4641. ijcai.org, 2022. URL: <https://doi.org/10.24963/ijcai.2022/643>, doi:10.24963/IJCAI.2022/643.
- [288] Emmanuel Hebrard, Marie-José Huguet, Nicolas Jozefowicz, Adrien Maillard, Cédric Pralet, and Gérard Verfaillie. Approximation of the parallel machine scheduling problem with additional unit resources. *Discret. Appl. Math.*, 215:126–135, 2016. URL: <https://doi.org/10.1016/j.dam.2016.07.003>, doi:10.1016/J.DAM.2016.07.003.
- [289] Emmanuel Hebrard, Paul Tyler, and Toby Walsh. Computing super-schedules. In Peter van Beek, editor, *Principles and Practice of Constraint Programming - CP 2005, 11th International Conference, CP 2005, Sitges, Spain, October 1-5, 2005, Proceedings*, volume 3709 of *Lecture Notes in Computer Science*, pages 879–879. Springer, 2005. doi:10.1007/11564751_117.
- [290] Aliza R. Heching and John N. Hooker. Scheduling home hospice care with logic-based benders decomposition. In Claude-Guy Quimper, editor, *Integration of AI and OR Techniques in Constraint Programming - 13th International Conference, CPAIOR 2016, Banff, AB, Canada, May 29 - June 1, 2016, Proceedings*, volume 9676 of *Lecture Notes in Computer Science*, pages 187–197. Springer, 2016. doi:10.1007/978-3-319-33954-2_14.
- [291] Ivan Heckman and J. Christopher Beck. Understanding the behavior of solution-guided search for job-shop scheduling. *J. Sched.*, 14(2):121–140, 2011. URL: <https://doi.org/10.1007/s10951-009-0113-0>, doi:10.1007/S10951-009-0113-0.
- [292] Stefan Heinz and J. Christopher Beck. Reconsidering mixed integer programming and mip-based hybrids for scheduling. In Nicolas Beldiceanu, Narendra Jussien, and Eric Pinson, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems - 9th International Conference, CPAIOR 2012, Nantes, France, May 28 - June 1, 2012. Proceedings*, volume 7298 of *Lecture Notes in Computer Science*, pages 211–227. Springer, 2012. doi:10.1007/978-3-642-29828-8_14.
- [293] Stefan Heinz, Wen-Yang Ku, and J. Christopher Beck. Recent improvements using constraint integer programming for resource allocation and scheduling. In Carla P. Gomes and Meinolf Sellmann, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, 10th International Conference, CPAIOR 2013, Yorktown Heights, NY, USA, May 18-22, 2013. Proceedings*, volume 7874 of *Lecture Notes in Computer Science*, pages 12–27. Springer, 2013. doi:10.1007/978-3-642-38171-3_2.
- [294] Stefan Heinz, Thomas Schlechte, Rüdiger Stephan, and Michael Winkler. Solving steel mill slab design problems. *Constraints An Int. J.*, 17(1):39–50, 2012. URL: <https://doi.org/10.1007/s10601-011-9113-8>, doi:10.1007/S10601-011-9113-8.
- [295] Stefan Heinz and Jens Schulz. Explanations for the cumulative constraint: An experimental study. In Panos M. Pardalos and Steffen Rebennack, editors, *Experimental Algorithms - 10th International Symposium, SEA 2011, Kolimpari, Chania, Crete, Greece, May 5-7, 2011. Proceedings*, volume 6630 of *Lecture Notes in Computer Science*, pages 400–409. Springer, 2011. doi:10.1007/978-3-642-20662-7_34.
- [296] Stefan Heinz, Jens Schulz, and J. Christopher Beck. Using dual presolving reductions to reformulate cumulative constraints. *Constraints An Int. J.*, 18(2):166–201, 2013. URL: <https://doi.org/10.1007/s10601-012-9136-9>, doi:10.1007/S10601-012-9136-9.

- [297] Vilém Heinz, Antonín Novák, Marek Vlk, and Zdenek Hanzálek. Constraint programming and constructive heuristics for parallel machine scheduling with sequence-dependent setups and common servers. *Comput. Ind. Eng.*, 172(Part):108586, 2022. URL: <https://doi.org/10.1016/j.cie.2022.108586>, doi:10.1016/J.CIE.2022.108586.
- [298] Vilém Heinz, Antonín Novák, Marek Vlk, and Zdenek Hanzálek. Constraint programming and constructive heuristics for parallel machine scheduling with sequence-dependent setups and common servers. *CoRR*, abs/2305.19888, 2023. URL: <https://doi.org/10.48550/arXiv.2305.19888>, arXiv:2305.19888, doi:10.48550/ARXIV.2305.19888.
- [299] Susanne Heipcke, Yves Colombani, Cristina C. B. Cavalcante, and Cid C. de Souza. Scheduling under labour resource constraints. *Constraints An Int. J.*, 5(4):415–422, 2000. doi:10.1023/A:1009860311452.
- [300] Pascal Van Hentenryck and Laurent Michel. Scheduling abstractions for local search. In Jean-Charles Régin and Michel Rueher, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, First International Conference, CPAIOR 2004, Nice, France, April 20-22, 2004, Proceedings*, volume 3011 of *Lecture Notes in Computer Science*, pages 319–334. Springer, 2004. doi:10.1007/978-3-540-24664-0_22.
- [301] Pascal Van Hentenryck and Laurent Michel. The steel mill slab design problem revisited. In Laurent Perron and Michael A. Trick, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, 5th International Conference, CPAIOR 2008, Paris, France, May 20-23, 2008, Proceedings*, volume 5015 of *Lecture Notes in Computer Science*, pages 377–381. Springer, 2008. doi:10.1007/978-3-540-68155-7_41.
- [302] Fabien Hermenier, Sophie Demasse, and Xavier Lorca. Bin repacking scheduling in virtualized datacenters. In Jimmy Ho-Man Lee, editor, *Principles and Practice of Constraint Programming - CP 2011 - 17th International Conference, CP 2011, Perugia, Italy, September 12-16, 2011. Proceedings*, volume 6876 of *Lecture Notes in Computer Science*, pages 27–41. Springer, 2011. doi:10.1007/978-3-642-23786-7_5.
- [303] Alessandro Hill, Andrea J. Brickey, Italo Cipriano, Marcos Goycoolea, and Alexandra Newman. Optimization strategies for resource-constrained project scheduling problems in underground mining. *INFORMS Journal on Computing*, 34(6):3042–3058, November 2022. URL: <http://dx.doi.org/10.1287/ijoc.2022.1222>, doi:10.1287/ijoc.2022.1222.
- [304] Alessandro Hill, Jordan Ticktin, and Thomas W. M. Vossen. A computational study of constraint programming approaches for resource-constrained project scheduling with autonomous learning effects. In Peter J. Stuckey, editor, *Integration of Constraint Programming, Artificial Intelligence, and Operations Research - 18th International Conference, CPAIOR 2021, Vienna, Austria, July 5-8, 2021, Proceedings*, volume 12735 of *Lecture Notes in Computer Science*, pages 26–44. Springer, 2021. doi:10.1007/978-3-030-78230-6_2.
- [305] Te-Wei Ho, Jia-Sheng Yao, Yao-Ting Chang, Feipei Lai, Jui-Fen Lai, Sue-Min Chu, Wan-Chung Liao, and Han-Mo Chiu. A platform for dynamic optimal nurse scheduling based on integer linear programming along with multiple criteria constraints. In *Proceedings of the 2018 Artificial Intelligence and Cloud Computing Conference, AICCC 2018, Tokyo, Japan, December 21-23, 2018*, pages 145–150. ACM, 2018. doi:10.1145/3299819.3299825.
- [306] John N. Hooker. *Logic Based Methods for Optimization: Combining Optimization and Constraint Satisfaction*. Wiley, May 2000. URL: <http://dx.doi.org/10.1002/9781118033036>, doi:10.1002/9781118033036.
- [307] John N. Hooker. A hybrid method for planning and scheduling. In Mark Wallace, editor, *Principles and Practice of Constraint Programming - CP 2004, 10th International Conference, CP 2004, Toronto, Canada, September 27 - October 1, 2004, Proceedings*, volume 3258 of *Lecture Notes in Computer Science*, pages 305–316. Springer, 2004. doi:10.1007/978-3-540-30201-8_24.
- [308] John N. Hooker. A hybrid method for the planning and scheduling. *Constraints An Int. J.*, 10(4):385–401, 2005. URL: <https://doi.org/10.1007/s10601-005-2812-2>, doi:10.1007/S10601-005-2812-2.

- [309] John N. Hooker. Planning and scheduling to minimize tardiness. In Peter van Beek, editor, *Principles and Practice of Constraint Programming - CP 2005, 11th International Conference, CP 2005, Sitges, Spain, October 1-5, 2005, Proceedings*, volume 3709 of *Lecture Notes in Computer Science*, pages 314–327. Springer, 2005. doi:10.1007/11564751_25.
- [310] John N. Hooker. An integrated method for planning and scheduling to minimize tardiness. *Constraints An Int. J.*, 11(2-3):139–157, 2006. URL: <https://doi.org/10.1007/s10601-006-8060-2>, doi:10.1007/S10601-006-8060-2.
- [311] John N. Hooker. Planning and scheduling by logic-based benders decomposition. *Operations Research*, 55(3):588–602, June 2007. URL: <http://dx.doi.org/10.1287/opre.1060.0371>, doi:10.1287/opre.1060.0371.
- [312] John N. Hooker. *Hybrid Modeling*, page 11–62. Springer New York, October 2010. URL: http://dx.doi.org/10.1007/978-1-4419-1644-0_2, doi:10.1007/978-1-4419-1644-0_2.
- [313] John N. Hooker. Job sequencing bounds from decision diagrams. In J. Christopher Beck, editor, *Principles and Practice of Constraint Programming - 23rd International Conference, CP 2017, Melbourne, VIC, Australia, August 28 - September 1, 2017, Proceedings*, volume 10416 of *Lecture Notes in Computer Science*, pages 565–578. Springer, 2017. doi:10.1007/978-3-319-66158-2_36.
- [314] John N. Hooker. Logic-Based Benders Decomposition for Large-Scale Optimization. In Jesús M. Velásquez-Bermúdez, Marzieh Khakifirooz, and Mahdi Fathi, editors, *Large Scale Optimization in Supply Chains and Smart Manufacturing*, Springer Optimization and Its Applications, pages 1–26. Springer, July 2019. URL: http://dx.doi.org/10.1007/978-3-030-22788-3_1, doi:10.1007/978-3-030-22788-3_1.
- [315] John N. Hooker and Gregor Ottosson. Logic-based benders decomposition. *Mathematical Programming*, 96(1):33–60, April 2003. URL: <http://dx.doi.org/10.1007/s10107-003-0375-9>, doi:10.1007/s10107-003-0375-9.
- [316] John N. Hooker and Willem-Jan van Hoeve. Constraint programming and operations research. *Constraints*, 23(2):172–195, December 2017. URL: <http://dx.doi.org/10.1007/s10601-017-9280-3>, doi:10.1007/s10601-017-9280-3.
- [317] John N. Hooker and Hong Yan. A relaxation of the cumulative constraint. In Pascal Van Hentenryck, editor, *Principles and Practice of Constraint Programming - CP 2002, 8th International Conference, CP 2002, Ithaca, NY, USA, September 9-13, 2002, Proceedings*, volume 2470 of *Lecture Notes in Computer Science*, pages 686–690. Springer, 2002. doi:10.1007/3-540-46135-3_46.
- [318] Vinasétan Ratheil Houndji, Pierre Schaus, and Laurence A. Wolsey. The item dependent stockingcost constraint. *Constraints An Int. J.*, 24(2):183–209, 2019. URL: <https://doi.org/10.1007/s10601-018-9300-y>, doi:10.1007/S10601-018-9300-Y.
- [319] Vinasétan Ratheil Houndji, Pierre Schaus, Laurence A. Wolsey, and Yves Deville. The stockingcost constraint. In Barry O’Sullivan, editor, *Principles and Practice of Constraint Programming - 20th International Conference, CP 2014, Lyon, France, September 8-12, 2014. Proceedings*, volume 8656 of *Lecture Notes in Computer Science*, pages 382–397. Springer, 2014. doi:10.1007/978-3-319-10428-7_29.
- [320] Felix Hübner, Patrick Gerhards, Christian Stürck, and Rebekka Volk. Solving the nuclear dismantling project scheduling problem by combining mixed-integer and constraint programming techniques and metaheuristics. *J. Sched.*, 24(3):269–290, 2021. URL: <https://doi.org/10.1007/s10951-021-00682-x>, doi:10.1007/S10951-021-00682-X.
- [321] Barry Hurley, Barry O’Sullivan, and Helmut Simonis. ICON loop energy show case. In Christian Bessiere, Luc De Raedt, Lars Kotthoff, Siegfried Nijssen, Barry O’Sullivan, and Dino Pedreschi, editors, *Data Mining and Constraint Programming - Foundations of a Cross-Disciplinary Approach*, volume 10101 of *Lecture Notes in Computer Science*, pages 334–347. Springer, 2016. doi:10.1007/978-3-319-50137-6_15.

- [322] Georgiana Ifrim, Barry O’Sullivan, and Helmut Simonis. Properties of energy-price forecasts for scheduling. In Michela Milano, editor, *Principles and Practice of Constraint Programming - 18th International Conference, CP 2012, Québec City, QC, Canada, October 8-12, 2012. Proceedings*, volume 7514 of *Lecture Notes in Computer Science*, pages 957–972. Springer, 2012. doi:10.1007/978-3-642-33558-7_68.
- [323] Eyüp Ensar Isik, Seyda Topaloglu Yildiz, and Özge Satir Akpunar. Constraint programming models for the hybrid flow shop scheduling problem and its extensions. *Soft Comput.*, 27(24):18623–18650, 2023. URL: <https://doi.org/10.1007/s00500-023-09086-9>, doi:10.1007/S00500-023-09086-9.
- [324] A.S. Jain and S. Meeran. Deterministic job-shop scheduling: Past, present and future. *European Journal of Operational Research*, 113(2):390–434, March 1999. URL: [http://dx.doi.org/10.1016/s0377-2217\(98\)00113-1](http://dx.doi.org/10.1016/s0377-2217(98)00113-1), doi:10.1016/s0377-2217(98)00113-1.
- [325] Vipul Jain and Ignacio E. Grossmann. Algorithms for hybrid milp/cp models for a class of optimization problems. *INFORMS Journal on Computing*, 13(4):258–276, November 2001. URL: <http://dx.doi.org/10.1287/ijoc.13.4.258.9733>, doi:10.1287/ijoc.13.4.258.9733.
- [326] Raf Jans. Solving lot-sizing problems on parallel identical machines using symmetry-breaking constraints. *INFORMS Journal on Computing*, 21(1):123–136, February 2009. URL: <http://dx.doi.org/10.1287/ijoc.1080.0283>, doi:10.1287/ijoc.1080.0283.
- [327] Jan Jelínek and Roman Barták. Using constraint logic programming to schedule solar array operations on the international space station. In Marco Gavanelli and John H. Reppy, editors, *Practical Aspects of Declarative Languages - 18th International Symposium, PADL 2016, St. Petersburg, FL, USA, January 18-19, 2016. Proceedings*, volume 9585 of *Lecture Notes in Computer Science*, pages 3–12. Springer, 2016. doi:10.1007/978-3-319-28228-2_1.
- [328] Jean Jourdan, François Fages, Didier Rozzonelli, and Alain Demeure. Data alignment and task scheduling on parallel machines using concurrent constraint model-based programming. In Maurice Bruynooghe, editor, *Logic Programming, Proceedings of the 1994 International Symposium, Ithaca, New York, USA, November 13-17, 1994*, page 678. MIT Press, 1994.
- [329] Pascal Jungblut and Dieter Kranzlmüller. Optimal schedules for high-level programming environments on fpgas with constraint programming. In *IEEE International Parallel and Distributed Processing Symposium, IPDPS Workshops 2022, Lyon, France, May 30 - June 3, 2022*, pages 96–99. IEEE, 2022. doi:10.1109/IPDPSW55747.2022.00025.
- [330] Carla Juvin, Emmanuel Hebrard, Laurent Houssin, and Pierre Lopez. An efficient constraint programming approach to preemptive job shop scheduling. In Roland H. C. Yap, editor, *29th International Conference on Principles and Practice of Constraint Programming, CP 2023, August 27-31, 2023, Toronto, Canada*, volume 280 of *LIPIcs*, pages 19:1–19:16. Schloss Dagstuhl - Leibniz-Zentrum für Informatik, 2023. URL: <https://doi.org/10.4230/LIPIcs.CP.2023.19>, doi:10.4230/LIPIcs.CP.2023.19.
- [331] Carla Juvin, Laurent Houssin, and Pierre Lopez. Logic-based benders decomposition for the preemptive flexible job-shop scheduling problem. *SSRN Electronic Journal*, 2022. URL: <http://dx.doi.org/10.2139/ssrn.4068164>, doi:10.2139/ssrn.4068164.
- [332] Carla Juvin, Laurent Houssin, and Pierre Lopez. Constraint programming for the robust two-machine flow-shop scheduling problem with budgeted uncertainty. In André A. Ciré, editor, *Integration of Constraint Programming, Artificial Intelligence, and Operations Research - 20th International Conference, CPAIOR 2023, Nice, France, May 29 - June 1, 2023, Proceedings*, volume 13884 of *Lecture Notes in Computer Science*, pages 354–369. Springer, 2023. doi:10.1007/978-3-031-33271-5_23.
- [333] Carla Juvin, Laurent Houssin, and Pierre Lopez. Logic-based benders decomposition for the preemptive flexible job-shop scheduling problem. *Computers & Operations Research*, 152:106156, April 2023. URL: <http://dx.doi.org/10.1016/j.cor.2023.106156>, doi:10.1016/j.cor.2023.106156.

- [334] Olli Kamarainen and Hani El Sakkout. Local probing applied to scheduling. In Pascal Van Hentenryck, editor, *Principles and Practice of Constraint Programming - CP 2002, 8th International Conference, CP 2002, Ithaca, NY, USA, September 9-13, 2002, Proceedings*, volume 2470 of *Lecture Notes in Computer Science*, pages 155–171. Springer, 2002. doi:10.1007/3-540-46135-3_11.
- [335] Roger Kameugne. *Techniques de Propagation de la Contrainte de Ressource en Ordonnancement Cumulatif*. PhD thesis, University of Yaounde I, Cameroon, 2014. URL: http://cp2013.a4cp.org/sites/default/files/roger_kameugne_-_propagation_techniques_of_resource_constraint_for_cumulative_scheduling.pdf.
- [336] Roger Kameugne. Propagation techniques of resource constraint for cumulative scheduling. *Constraints An Int. J.*, 20(4):506–507, 2015. URL: <https://doi.org/10.1007/s10601-015-9227-5>, doi:10.1007/S10601-015-9227-5.
- [337] Roger Kameugne, Séverine Betmbe Fetgo, Vincent Gingras, Yanick Ouellet, and Claude-Guy Quimper. Horizontally elastic not-first/not-last filtering algorithm for cumulative resource constraint. In Willem Jan van Hoeve, editor, *Integration of Constraint Programming, Artificial Intelligence, and Operations Research - 15th International Conference, CPAIOR 2018, Delft, The Netherlands, June 26-29, 2018, Proceedings*, volume 10848 of *Lecture Notes in Computer Science*, pages 316–332. Springer, 2018. doi:10.1007/978-3-319-93031-2_23.
- [338] Roger Kameugne, Séverine Betmbe Fetgo, Thierry Noulamo, and Clémentin Tayou Djamégni. Horizontally elastic edge finder rule for cumulative constraint based on slack and density. In Roland H. C. Yap, editor, *29th International Conference on Principles and Practice of Constraint Programming, CP 2023, August 27-31, 2023, Toronto, Canada*, volume 280 of *LIPICs*, pages 20:1–20:17. Schloss Dagstuhl - Leibniz-Zentrum für Informatik, 2023. URL: <https://doi.org/10.4230/LIPICs.CP.2023.20>, doi:10.4230/LIPICs.CP.2023.20.
- [339] Roger Kameugne, Laure Pauline Fotso, Joseph D. Scott, and Youcheu Ngo-Kateu. A quadratic edge-finding filtering algorithm for cumulative resource constraints. In Jimmy Ho-Man Lee, editor, *Principles and Practice of Constraint Programming - CP 2011 - 17th International Conference, CP 2011, Perugia, Italy, September 12-16, 2011. Proceedings*, volume 6876 of *Lecture Notes in Computer Science*, pages 478–492. Springer, 2011. doi:10.1007/978-3-642-23786-7_37.
- [340] Roger Kameugne, Laure Pauline Fotso, Joseph D. Scott, and Youcheu Ngo-Kateu. A quadratic edge-finding filtering algorithm for cumulative resource constraints. *Constraints An Int. J.*, 19(3):243–269, 2014. URL: <https://doi.org/10.1007/s10601-013-9157-z>, doi:10.1007/S10601-013-9157-Z.
- [341] John J. Kanet, Sanjay Ahire, and Michael F. Gorman. Constraint programming for scheduling. In Joseph Y.-T. Leung, editor, *Handbook of Scheduling - Algorithms, Models, and Performance Analysis*. Chapman and Hall/CRC, 2004. URL: <http://www.crcnetbase.com/doi/abs/10.1201/9780203489802.ch47>, doi:10.1201/9780203489802.CH47.
- [342] Elena Kelareva, Kevin Tierney, and Philip Kilby. CP methods for scheduling and routing with time-dependent task costs. In Carla P. Gomes and Meinolf Sellmann, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, 10th International Conference, CPAIOR 2013, Yorktown Heights, NY, USA, May 18-22, 2013. Proceedings*, volume 7874 of *Lecture Notes in Computer Science*, pages 111–127. Springer, 2013. doi:10.1007/978-3-642-38171-3_8.
- [343] Jan Kelbel and Zdenek Hanzálek. Solving production scheduling with earliness/tardiness penalties by constraint programming. *J. Intell. Manuf.*, 22(4):553–562, 2011. URL: <https://doi.org/10.1007/s10845-009-0318-2>, doi:10.1007/S10845-009-0318-2.
- [344] András Kéri and Tamás Kis. Computing tight time windows for RCPSPWET with the primal-dual method. In Pascal Van Hentenryck and Laurence A. Wolsey, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, 4th International Conference, CPAIOR 2007, Brussels, Belgium, May 23-26, 2007, Proceedings*, volume 4510 of *Lecture Notes in Computer Science*, pages 127–140. Springer, 2007. doi:10.1007/978-3-540-72397-4_10.

- [345] Ghada El Khayat, André Langevin, and Diane Riopel. Integrated production and material handling scheduling using mathematical programming and constraint programming. *Eur. J. Oper. Res.*, 175(3):1818–1832, 2006. URL: <https://doi.org/10.1016/j.ejor.2005.02.077>, doi:10.1016/J.EJOR.2005.02.077.
- [346] Mohand Ou Idir Khemmoudj, Marc Porcheron, and Hachemi Bennaceur. When constraint programming and local search solve the scheduling problem of electricité de france nuclear power plant outages. In Frédéric Benhamou, editor, *Principles and Practice of Constraint Programming - CP 2006, 12th International Conference, CP 2006, Nantes, France, September 25-29, 2006, Proceedings*, volume 4204 of *Lecture Notes in Computer Science*, pages 271–283. Springer, 2006. doi:10.1007/11889205_21.
- [347] Dongyun Kim, Yeonjun Choi, Kyungduk Moon, Myungho Lee, Kangbok Lee, and Michael L. Pinedo. Iterated greedy constraint programming for scheduling steel-making continuous casting. In André A. Ciré, editor, *Integration of Constraint Programming, Artificial Intelligence, and Operations Research - 20th International Conference, CPAIOR 2023, Nice, France, May 29 - June 1, 2023, Proceedings*, volume 13884 of *Lecture Notes in Computer Science*, pages 477–492. Springer, 2023. doi:10.1007/978-3-031-33271-5_31.
- [348] Christian Klanke, Dominik R. Bleidorn, Vassilios Yfantis, and Sebastian Engell. Combining constraint programming and temporal decomposition approaches - scheduling of an industrial formulation plant. In Peter J. Stuckey, editor, *Integration of Constraint Programming, Artificial Intelligence, and Operations Research - 18th International Conference, CPAIOR 2021, Vienna, Austria, July 5-8, 2021, Proceedings*, volume 12735 of *Lecture Notes in Computer Science*, pages 133–148. Springer, 2021. doi:10.1007/978-3-030-78230-6_9.
- [349] Lucas Kletzander and Nysret Musliu. A multi-stage simulated annealing algorithm for the torpedo scheduling problem. In Domenico Salvagnin and Michele Lombardi, editors, *Integration of AI and OR Techniques in Constraint Programming - 14th International Conference, CPAIOR 2017, Padua, Italy, June 5-8, 2017, Proceedings*, volume 10335 of *Lecture Notes in Computer Science*, pages 344–358. Springer, 2017. doi:10.1007/978-3-319-59776-8_28.
- [350] Jana Koehler, Josef Bürgler, Urs Fontana, Etienne Fux, Florian A. Herzog, Marc Pouly, Sophia Saller, Anastasia Salyaeva, Peter Scheiblechner, and Kai Waelti. Cable tree wiring - benchmarking solvers on a real-world scheduling problem with a variety of precedence constraints. *Constraints An Int. J.*, 26(1):56–106, 2021. URL: <https://doi.org/10.1007/s10601-021-09321-w>, doi:10.1007/S10601-021-09321-W.
- [351] Rainer Kolisch and Sönke Hartmann. Experimental investigation of heuristics for resource-constrained project scheduling: An update. *European Journal of Operational Research*, 174(1):23–37, October 2006. URL: <http://dx.doi.org/10.1016/j.ejor.2005.01.065>, doi:10.1016/j.ejor.2005.01.065.
- [352] Rainer Kolisch and Arno Sprecher. Psplib - a project scheduling problem library. *European Journal of Operational Research*, 96(1):205–216, January 1997. URL: [http://dx.doi.org/10.1016/s0377-2217\(96\)00170-1](http://dx.doi.org/10.1016/s0377-2217(96)00170-1), doi:10.1016/s0377-2217(96)00170-1.
- [353] Ouajdi Korbaa, Pascal Yim, and Jean-Claude Gentina. Solving transient scheduling problem for cyclic production using timed petri nets and constraint programming. In *5th European Control Conference, ECC 1999, Karlsruhe, Germany, August 31 - September 3, 1999*, pages 3938–3945. IEEE, 1999. doi:10.23919/ECC.1999.7099947.
- [354] Ouajdi Korbaa, Pascal Yim, and Jean-Claude Gentina. Solving transient scheduling problems with constraint programming. *Eur. J. Control*, 6(6):511–520, 2000. doi:10.1016/S0947-3580(00)71113-7.
- [355] Sebastian Kosch and J. Christopher Beck. A new MIP model for parallel-batch scheduling with non-identical job sizes. In Helmut Simonis, editor, *Integration of AI and OR Techniques in Constraint Programming - 11th International Conference, CPAIOR 2014, Cork, Ireland, May 19-23, 2014. Proceedings*, volume 8451 of *Lecture Notes in Computer Science*, pages 55–70. Springer, 2014. doi:10.1007/978-3-319-07046-9_5.

- [356] András Kovács and J. Christopher Beck. A global constraint for total weighted completion time. In Pascal Van Hentenryck and Laurence A. Wolsey, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, 4th International Conference, CPAIOR 2007, Brussels, Belgium, May 23-26, 2007, Proceedings*, volume 4510 of *Lecture Notes in Computer Science*, pages 112–126. Springer, 2007. doi:10.1007/978-3-540-72397-4_9.
- [357] András Kovács and J. Christopher Beck. A global constraint for total weighted completion time for cumulative resources. *Eng. Appl. Artif. Intell.*, 21(5):691–697, 2008. URL: <https://doi.org/10.1016/j.engappai.2008.03.004>, doi:10.1016/J.ENGAPPAI.2008.03.004.
- [358] András Kovács and J. Christopher Beck. A global constraint for total weighted completion time for unary resources. *Constraints An Int. J.*, 16(1):100–123, 2011. URL: <https://doi.org/10.1007/s10601-009-9088-x>, doi:10.1007/S10601-009-9088-X.
- [359] András Kovács, Péter Egri, Tamás Kis, and József Váncza. Proterv-ii: An integrated production planning and scheduling system. In Peter van Beek, editor, *Principles and Practice of Constraint Programming - CP 2005, 11th International Conference, CP 2005, Sitges, Spain, October 1-5, 2005, Proceedings*, volume 3709 of *Lecture Notes in Computer Science*, pages 880–880. Springer, 2005. doi:10.1007/11564751_118.
- [360] András Kovács and Tamás Kis. Constraint programming approach to a bilevel scheduling problem. *Constraints An Int. J.*, 16(3):317–340, 2011. URL: <https://doi.org/10.1007/s10601-010-9102-3>, doi:10.1007/S10601-010-9102-3.
- [361] András Kovács and József Váncza. Completable partial solutions in constraint programming and constraint-based scheduling. In Mark Wallace, editor, *Principles and Practice of Constraint Programming - CP 2004, 10th International Conference, CP 2004, Toronto, Canada, September 27 - October 1, 2004, Proceedings*, volume 3258 of *Lecture Notes in Computer Science*, pages 332–346. Springer, 2004. doi:10.1007/978-3-540-30201-8_26.
- [362] András Kovács and József Váncza. Progressive solutions: A simple but efficient dominance rule for practical RCPSP. In J. Christopher Beck and Barbara M. Smith, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, Third International Conference, CPAIOR 2006, Cork, Ireland, May 31 - June 2, 2006, Proceedings*, volume 3990 of *Lecture Notes in Computer Science*, pages 139–151. Springer, 2006. doi:10.1007/11757375_13.
- [363] Benjamin Kovács, Pierre Tassel, Wolfgang Kohlenbrein, Philipp Schrott-Kostwein, and Martin Gebser. Utilizing constraint optimization for industrial machine workload balancing. In Laurent D. Michel, editor, *27th International Conference on Principles and Practice of Constraint Programming, CP 2021, Montpellier, France (Virtual Conference), October 25-29, 2021*, volume 210 of *LIPICs*, pages 36:1–36:17. Schloss Dagstuhl - Leibniz-Zentrum für Informatik, 2021. URL: <https://doi.org/10.4230/LIPICs.CP.2021.36>, doi:10.4230/LIPICS.CP.2021.36.
- [364] Stefan Kreter, Andreas Schutt, and Peter J. Stuckey. Modeling and solving project scheduling with calendars. In Gilles Pesant, editor, *Principles and Practice of Constraint Programming - 21st International Conference, CP 2015, Cork, Ireland, August 31 - September 4, 2015, Proceedings*, volume 9255 of *Lecture Notes in Computer Science*, pages 262–278. Springer, 2015. doi:10.1007/978-3-319-23219-5_19.
- [365] Stefan Kreter, Andreas Schutt, and Peter J. Stuckey. Using constraint programming for solving rcpsp/max-cal. *Constraints An Int. J.*, 22(3):432–462, 2017. URL: <https://doi.org/10.1007/s10601-016-9266-6>, doi:10.1007/S10601-016-9266-6.
- [366] Stefan Kreter, Andreas Schutt, Peter J. Stuckey, and Jürgen Zimmermann. Mixed-integer linear programming and constraint programming formulations for solving resource availability cost problems. *Eur. J. Oper. Res.*, 266(2):472–486, 2018. URL: <https://doi.org/10.1016/j.ejor.2017.10.014>, doi:10.1016/J.EJOR.2017.10.014.
- [367] Wen-Yang Ku and J. Christopher Beck. Mixed integer programming models for job shop scheduling: A computational analysis. *Comput. Oper. Res.*, 73:165–173, 2016. URL: <https://doi.org/10.1016/j.cor.2016.04.006>, doi:10.1016/J.COR.2016.04.006.

- [368] Krzysztof Kuchcinski and Christophe Wolinski. Global approach to assignment and scheduling of complex behaviors based on HCDG and constraint programming. *J. Syst. Archit.*, 49(12-15):489–503, 2003. doi:10.1016/S1383-7621(03)00075-4.
- [369] T. K. Satish Kumar. Incremental computation of resource-envelopes in producer-consumer models. In Francesca Rossi, editor, *Principles and Practice of Constraint Programming - CP 2003, 9th International Conference, CP 2003, Kinsale, Ireland, September 29 - October 3, 2003, Proceedings*, volume 2833 of *Lecture Notes in Computer Science*, pages 664–678. Springer, 2003. doi:10.1007/978-3-540-45193-8_45.
- [370] Mustafa Küçük and Seyda Topaloglu Yildiz. A constraint programming approach for agile earth observation satellite scheduling problem. In *2019 9th International Conference on Recent Advances in Space Technologies (RAST)*, pages 613–617, 2019. URL: <https://api.semanticscholar.org/CorpusID:198146161>.
- [371] Philippe Laborie. Algorithms for propagating resource constraints in ai planning and scheduling: Existing approaches and new results. *Artificial Intelligence*, 143(2):151–188, February 2003. URL: [http://dx.doi.org/10.1016/S0004-3702\(02\)00362-4](http://dx.doi.org/10.1016/S0004-3702(02)00362-4), doi:10.1016/S0004-3702(02)00362-4.
- [372] Philippe Laborie. IBM ILOG CP optimizer for detailed scheduling illustrated on three problems. In Willem Jan van Hoeve and John N. Hooker, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, 6th International Conference, CPAIOR 2009, Pittsburgh, PA, USA, May 27-31, 2009, Proceedings*, volume 5547 of *Lecture Notes in Computer Science*, pages 148–162. Springer, 2009. doi:10.1007/978-3-642-01929-6_12.
- [373] Philippe Laborie. An update on the comparison of mip, CP and hybrid approaches for mixed resource allocation and scheduling. In Willem Jan van Hoeve, editor, *Integration of Constraint Programming, Artificial Intelligence, and Operations Research - 15th International Conference, CPAIOR 2018, Delft, The Netherlands, June 26-29, 2018, Proceedings*, volume 10848 of *Lecture Notes in Computer Science*, pages 403–411. Springer, 2018. doi:10.1007/978-3-319-93031-2_29.
- [374] Philippe Laborie, Jerome Rogerie, Paul Shaw, and Petr Vilím. IBM ILOG CP optimizer for scheduling - 20+ years of scheduling with constraints at IBM/ILOG. *Constraints An Int. J.*, 23(2):210–250, 2018. URL: <https://doi.org/10.1007/s10601-018-9281-x>, doi:10.1007/S10601-018-9281-X.
- [375] Marie-Louise Lackner, Christoph Mrkvicka, Nysret Musliu, Daniel Walkiewicz, and Felix Winter. Minimizing cumulative batch processing time for an industrial oven scheduling problem. In Laurent D. Michel, editor, *27th International Conference on Principles and Practice of Constraint Programming, CP 2021, Montpellier, France (Virtual Conference), October 25-29, 2021*, volume 210 of *LIPIcs*, pages 37:1–37:18. Schloss Dagstuhl - Leibniz-Zentrum für Informatik, 2021. URL: <https://doi.org/10.4230/LIPIcs.CP.2021.37>, doi:10.4230/LIPIcs.CP.2021.37.
- [376] Marie-Louise Lackner, Christoph Mrkvicka, Nysret Musliu, Daniel Walkiewicz, and Felix Winter. Exact methods for the oven scheduling problem. *Constraints An Int. J.*, 28(2):320–361, 2023. URL: <https://doi.org/10.1007/s10601-023-09347-2>, doi:10.1007/S10601-023-09347-2.
- [377] Asma Lahimer, Pierre Lopez, and Mohamed Haouari. Climbing depth-bounded adjacent discrepancy search for solving hybrid flow shop scheduling problems with multiprocessor tasks. In Tobias Achterberg and J. Christopher Beck, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems - 8th International Conference, CPAIOR 2011, Berlin, Germany, May 23-27, 2011. Proceedings*, volume 6697 of *Lecture Notes in Computer Science*, pages 117–130. Springer, 2011. doi:10.1007/978-3-642-21311-3_12.
- [378] Edward Lam, Graeme Gange, Peter J. Stuckey, Pascal Van Hentenryck, and Jip J. Dekker. Nutmeg: a mip and cp hybrid solver using branch-and-check. *SN Operations Research Forum*, 1(3), September 2020. URL: <http://dx.doi.org/10.1007/s43069-020-00023-2>, doi:10.1007/s43069-020-00023-2.
- [379] Evelina Lamma, Paola Mello, and Michela Milano. A distributed constraint-based scheduler. *Artif. Intell. Eng.*, 11(2):91–105, 1997. doi:10.1016/S0954-1810(96)00002-7.

- [380] Hoong Chuin Lau, Kong Wei Lye, and Viet Bang Nguyen. A combinatorial auction framework for solving decentralized scheduling problems (extended abstract). In Laurent Perron and Michael A. Trick, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, 5th International Conference, CPAIOR 2008, Paris, France, May 20-23, 2008, Proceedings*, volume 5015 of *Lecture Notes in Computer Science*, pages 333–337. Springer, 2008. doi:10.1007/978-3-540-68155-7_33.
- [381] Jena-Lonis Lauriere. A language and a program for stating and solving combinatorial problems. *Artificial Intelligence*, 10(1):29–127, February 1978. URL: [http://dx.doi.org/10.1016/0004-3702\(78\)90029-2](http://dx.doi.org/10.1016/0004-3702(78)90029-2), doi:10.1016/0004-3702(78)90029-2.
- [382] Colin J. Layfield. *A constraint programming pre-processor for duty scheduling*. PhD thesis, University of Leeds, UK, 2002. URL: <http://etheses.whiterose.ac.uk/1301/>.
- [383] Alexandre Duarte de Almeida Lemos. *Solving scheduling problems under disruptions*. PhD thesis, UNIVERSIDADE DE LISBOA INSTITUTO SUPERIOR TÉCNICO, July 2021. URL: https://scholar.tecnico.ulisboa.pt/records/u5RPHM-pu_yo0LXJF7BHrgJx47D827b0xHb3.
- [384] Arnaud Letort. *Passage à l'échelle pour les contraintes d'ordonnancement multi-ressources*. Theses, Ecole des Mines de Nantes, October 2013. URL: <https://theses.hal.science/tel-00932215>.
- [385] Arnaud Letort, Nicolas Beldiceanu, and Mats Carlsson. A scalable sweep algorithm for the cumulative constraint. In Michela Milano, editor, *Principles and Practice of Constraint Programming - 18th International Conference, CP 2012, Québec City, QC, Canada, October 8-12, 2012. Proceedings*, volume 7514 of *Lecture Notes in Computer Science*, pages 439–454. Springer, 2012. doi:10.1007/978-3-642-33558-7_33.
- [386] Arnaud Letort, Mats Carlsson, and Nicolas Beldiceanu. A synchronized sweep algorithm for the k -dimensional cumulative constraint. In Carla P. Gomes and Meinolf Sellmann, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, 10th International Conference, CPAIOR 2013, Yorktown Heights, NY, USA, May 18-22, 2013. Proceedings*, volume 7874 of *Lecture Notes in Computer Science*, pages 144–159. Springer, 2013. doi:10.1007/978-3-642-38171-3_10.
- [387] Arnaud Letort, Mats Carlsson, and Nicolas Beldiceanu. Synchronized sweep algorithms for scalable scheduling constraints. *Constraints An Int. J.*, 20(2):183–234, 2015. URL: <https://doi.org/10.1007/s10601-014-9172-8>, doi:10.1007/S10601-014-9172-8.
- [388] Haitao Li and Keith Womer. Scheduling projects with multi-skilled personnel by a hybrid milp/cp benders decomposition algorithm. *Journal of Scheduling*, 12(3):281–298, September 2008. URL: <http://dx.doi.org/10.1007/s10951-008-0079-3>, doi:10.1007/s10951-008-0079-3.
- [389] Xingyang Li, Jun Fu, Zixi Jia, Ziyan Zhao, Siyi Li, and Shixin Liu. Constraint programming for a novel integrated optimization of blocking job shop scheduling and variable-speed transfer robot assignment. In *IEEE International Conference on Networking, Sensing and Control, ICNSC 2022, Shanghai, China, December 15-18, 2022*, pages 1–6. IEEE, 2022. doi:10.1109/ICNSC55942.2022.10004158.
- [390] Olivier Liess and Philippe Michelon. A constraint programming approach for the resource-constrained project scheduling problem. *Ann. Oper. Res.*, 157(1):25–36, 2008. URL: <https://doi.org/10.1007/s10479-007-0188-y>, doi:10.1007/S10479-007-0188-Y.
- [391] Andrew Lim, Brian Rodrigues, and Zhou Xu. Solving the crane scheduling problem using intelligent search schemes. In Mark Wallace, editor, *Principles and Practice of Constraint Programming - CP 2004, 10th International Conference, CP 2004, Toronto, Canada, September 27 - October 1, 2004, Proceedings*, volume 3258 of *Lecture Notes in Computer Science*, pages 747–751. Springer, 2004. doi:10.1007/978-3-540-30201-8_59.

- [392] BoonPing Lim, Hassan L. Hijazi, Sylvie Thiébaux, and Menkes van den Briel. Online hvac-aware occupancy scheduling with adaptive temperature control. In Michel Rueher, editor, *Principles and Practice of Constraint Programming - 22nd International Conference, CP 2016, Toulouse, France, September 5-9, 2016, Proceedings*, volume 9892 of *Lecture Notes in Computer Science*, pages 683–700. Springer, 2016. doi:10.1007/978-3-319-44953-1_43.
- [393] BoonPing Lim, Menkes van den Briel, Sylvie Thiébaux, Russell Bent, and Scott Backhaus. Large neighborhood search for energy aware meeting scheduling in smart buildings. In Laurent Michel, editor, *Integration of AI and OR Techniques in Constraint Programming - 12th International Conference, CPAIOR 2015, Barcelona, Spain, May 18-22, 2015, Proceedings*, volume 9075 of *Lecture Notes in Computer Science*, pages 240–254. Springer, 2015. doi:10.1007/978-3-319-18008-3_17.
- [394] Kamol Limtanyakul. Scheduling of tests on vehicle prototypes using constraint and integer programming. In Jörg Kalcsics and Stefan Nickel, editors, *Operations Research, Proceedings 2007, Selected Papers of the Annual International Conference of the German Operations Research Society (GOR), Saarbrücken, Germany, September 5-7, 2007, Operations Research Proceedings*, pages 421–426. Springer, 2007. doi:10.1007/978-3-540-77903-2_65.
- [395] Kamol Limtanyakul and Uwe Schwiegelshohn. Improvements of constraint programming and hybrid methods for scheduling of tests on vehicle prototypes. *Constraints An Int. J.*, 17(2):172–203, 2012. URL: <https://doi.org/10.1007/s10601-012-9118-y>, doi:10.1007/S10601-012-9118-Y.
- [396] Nir Lipovetzky, Christina N. Burt, Adrian R. Pearce, and Peter J. Stuckey. Planning for mining operations with time and resource constraints. In Steve A. Chien, Minh Binh Do, Alan Fern, and Wheeler Ruml, editors, *Proceedings of the Twenty-Fourth International Conference on Automated Planning and Scheduling, ICAPS 2014, Portsmouth, New Hampshire, USA, June 21-26, 2014*. AAAI, 2014. URL: <http://www.aaai.org/ocs/index.php/ICAPS/ICAPS14/paper/view/7942>.
- [397] Ke Liu, Sven Löffler, and Petra Hofstedt. Solving the talent scheduling problem by parallel constraint programming. In John MacIntyre, Ilias Maglogiannis, Lazaros S. Iliadis, and Elias Pimenidis, editors, *Artificial Intelligence Applications and Innovations - 15th IFIP WG 12.5 International Conference, AIAI 2019, Hersonissos, Crete, Greece, May 24-26, 2019, Proceedings*, volume 559 of *IFIP Advances in Information and Communication Technology*, pages 236–244. Springer, 2019. doi:10.1007/978-3-030-19823-7_19.
- [398] Tong Liu, Roberto Di Cosmo, Maurizio Gabbrielli, and Jacopo Mauro. Nightsplitter: A scheduling tool to optimize (sub)group activities. In J. Christopher Beck, editor, *Principles and Practice of Constraint Programming - 23rd International Conference, CP 2017, Melbourne, VIC, Australia, August 28 - September 1, 2017, Proceedings*, volume 10416 of *Lecture Notes in Computer Science*, pages 370–386. Springer, 2017. doi:10.1007/978-3-319-66158-2_24.
- [399] Yuechang Liu and Yunfei Jiang. LP-TPOP: integrating planning and scheduling through constraint programming. In Qiang Yang and Geoffrey I. Webb, editors, *PRICAI 2006: Trends in Artificial Intelligence, 9th Pacific Rim International Conference on Artificial Intelligence, Guilin, China, August 7-11, 2006, Proceedings*, volume 4099 of *Lecture Notes in Computer Science*, pages 844–848. Springer, 2006. doi:10.1007/11801603_92.
- [400] Michele Lombardi. *Hybrid Methods for Resource Allocation and Scheduling Problems in Deterministic and Stochastic Environments*. PhD thesis, University of Bologna, Italy, 2010. URL: <http://amsdottorato.unibo.it/2961/>.
- [401] Michele Lombardi, Alessio Bonfietti, and Michela Milano. Deterministic estimation of the expected makespan of a POS under duration uncertainty. In Gilles Pesant, editor, *Principles and Practice of Constraint Programming - 21st International Conference, CP 2015, Cork, Ireland, August 31 - September 4, 2015, Proceedings*, volume 9255 of *Lecture Notes in Computer Science*, pages 279–294. Springer, 2015. doi:10.1007/978-3-319-23219-5_20.
- [402] Michele Lombardi, Alessio Bonfietti, Michela Milano, and Luca Benini. Precedence constraint posting for cyclic scheduling problems. In Tobias Achterberg and J. Christopher Beck, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems - 8th International Conference, CPAIOR 2011, Berlin, Germany, May 23-27, 2011. Proceedings*, volume 6697 of *Lecture Notes in Computer Science*, pages 137–153. Springer, 2011. doi:10.1007/978-3-642-21311-3_14.

- [403] Michele Lombardi and Michela Milano. A precedence constraint posting approach for the RCPSP with time lags and variable durations. In Ian P. Gent, editor, *Principles and Practice of Constraint Programming - CP 2009, 15th International Conference, CP 2009, Lisbon, Portugal, September 20-24, 2009, Proceedings*, volume 5732 of *Lecture Notes in Computer Science*, pages 569–583. Springer, 2009. doi:10.1007/978-3-642-04244-7_45.
- [404] Michele Lombardi and Michela Milano. Allocation and scheduling of conditional task graphs. *Artif. Intell.*, 174(7-8):500–529, 2010. URL: <https://doi.org/10.1016/j.artint.2010.02.004>, doi:10.1016/J.ARTINT.2010.02.004.
- [405] Michele Lombardi and Michela Milano. Constraint based scheduling to deal with uncertain durations and self-timed execution. In David Cohen, editor, *Principles and Practice of Constraint Programming - CP 2010 - 16th International Conference, CP 2010, St. Andrews, Scotland, UK, September 6-10, 2010. Proceedings*, volume 6308 of *Lecture Notes in Computer Science*, pages 383–397. Springer, 2010. doi:10.1007/978-3-642-15396-9_32.
- [406] Michele Lombardi and Michela Milano. A min-flow algorithm for minimal critical set detection in resource constrained project scheduling. *Artif. Intell.*, 182-183:58–67, 2012. URL: <https://doi.org/10.1016/j.artint.2011.12.001>, doi:10.1016/J.ARTINT.2011.12.001.
- [407] Michele Lombardi and Michela Milano. Optimal methods for resource allocation and scheduling: a cross-disciplinary survey. *Constraints An Int. J.*, 17(1):51–85, 2012. URL: <https://doi.org/10.1007/s10601-011-9115-6>, doi:10.1007/S10601-011-9115-6.
- [408] Michele Lombardi and Michela Milano. A min-flow algorithm for minimal critical set detection in resource constrained project scheduling. In Daniel Borrajo, Subbarao Kambhampati, Angelo Oddi, and Simone Fratini, editors, *Proceedings of the Twenty-Third International Conference on Automated Planning and Scheduling, ICAPS 2013, Rome, Italy, June 10-14, 2013*. AAAI, 2013. URL: <http://www.aaai.org/ocs/index.php/ICAPS/ICAPS13/paper/view/6052>.
- [409] Michele Lombardi, Michela Milano, and Luca Benini. Robust scheduling of task graphs under execution time uncertainty. *IEEE Transactions on Computers*, 62(1):98–111, January 2013. URL: <http://dx.doi.org/10.1109/tc.2011.203>, doi:10.1109/tc.2011.203.
- [410] Michele Lombardi, Michela Milano, Martino Ruggiero, and Luca Benini. Stochastic allocation and scheduling for conditional task graphs in multi-processor systems-on-chip. *Journal of Scheduling*, 13(4):315–345, June 2010. URL: <http://dx.doi.org/10.1007/s10951-010-0184-y>, doi:10.1007/s10951-010-0184-y.
- [411] Tony Minoru Tamura Lopes, André A. Ciré, Cid Carvalho de Souza, and Arnaldo Vieira Moura. A hybrid model for a multiproduct pipeline planning and scheduling problem. *Constraints An Int. J.*, 15(2):151–189, 2010. URL: <https://doi.org/10.1007/s10601-009-9086-z>, doi:10.1007/S10601-009-9086-Z.
- [412] Pierre Lopez, Hassane Alla, Ouajdi Korbaa, Pascal Yim, and Jean-Claude Gentina. Discussion on: 'solving transient scheduling problems with constraint programming' by o. korbaa, p. yim, and J.-C. gentina. *Eur. J. Control*, 6(6):521–524, 2000. doi:10.1016/S0947-3580(00)71114-9.
- [413] Thomas Lorigeon, Jean-Charles Billaut, and Jean-Louis Bouquard. A dynamic programming algorithm for scheduling jobs in a two-machine open shop with an availability constraint. *J. Oper. Res. Soc.*, 53(11):1239–1246, 2002. URL: <https://doi.org/10.1057/palgrave.jors.2601421>, doi:10.1057/PALGRAVE.JORS.2601421.
- [414] Wing-Yue Geoffrey Louie, Tiago Stegun Vaquero, Goldie Nejat, and J. Christopher Beck. An autonomous assistive robot for planning, scheduling and facilitating multi-user activities. In *2014 IEEE International Conference on Robotics and Automation, ICRA 2014, Hong Kong, China, May 31 - June 7, 2014*, pages 5292–5298. IEEE, 2014. doi:10.1109/ICRA.2014.6907637.
- [415] Willian T. Lunardi, Ernesto G. Birgin, Philippe Laborie, Débora P. Ronconi, and Holger Voos. Mixed integer linear programming and constraint programming models for the online printing shop scheduling problem. *Comput. Oper. Res.*, 123:105020, 2020. URL: <https://doi.org/10.1016/j.cor.2020.105020>, doi:10.1016/J.COR.2020.105020.

- [416] Willian Tessler Lunardi. *A Real-World Flexible Job Shop Scheduling Problem With Sequencing Flexibility: Mathematical Programming, Constraint Programming, and Metaheuristics*. PhD thesis, University of Luxembourg, Luxembourg City, Luxembourg, 2020. URL: <http://orbilu.uni.lu/handle/10993/43893>.
- [417] Roy Luo, Richard Anthony Valenzano, Yi Li, J. Christopher Beck, and Sheila A. McIlraith. Using metric temporal logic to specify scheduling problems. In Chitta Baral, James P. Delgrande, and Frank Wolter, editors, *Principles of Knowledge Representation and Reasoning: Proceedings of the Fifteenth International Conference, KR 2016, Cape Town, South Africa, April 25-29, 2016*, pages 581–584. AAAI Press, 2016. URL: <http://www.aaai.org/ocs/index.php/KR/KR16/paper/view/12909>.
- [418] Yiqing L. Luo and J. Christopher Beck. Packing by scheduling: Using constraint programming to solve a complex 2d cutting stock problem. In Pierre Schaus, editor, *Integration of Constraint Programming, Artificial Intelligence, and Operations Research - 19th International Conference, CPAIOR 2022, Los Angeles, CA, USA, June 20-23, 2022, Proceedings*, volume 13292 of *Lecture Notes in Computer Science*, pages 249–265. Springer, 2022. doi:10.1007/978-3-031-08011-1_17.
- [419] Gilles Madi-Wamba and Nicolas Beldiceanu. The taskintersection constraint. In Claude-Guy Quimper, editor, *Integration of AI and OR Techniques in Constraint Programming - 13th International Conference, CPAIOR 2016, Banff, AB, Canada, May 29 - June 1, 2016, Proceedings*, volume 9676 of *Lecture Notes in Computer Science*, pages 246–261. Springer, 2016. doi:10.1007/978-3-319-33954-2_18.
- [420] Gilles Madi-Wamba, Yunbo Li, Anne-Cécile Orgerie, Nicolas Beldiceanu, and Jean-Marc Menaud. Green energy aware scheduling problem in virtualized datacenters. In *23rd IEEE International Conference on Parallel and Distributed Systems, ICPADS 2017, Shenzhen, China, December 15-17, 2017*, pages 648–655. IEEE Computer Society, 2017. doi:10.1109/ICPADS.2017.00089.
- [421] Kai-Ling Mak, Jun Ma, and Wei Su. A constraint programming approach for production scheduling of multi-period virtual cellular manufacturing systems. In *Sixth International Conference on Natural Computation, ICNC 2010, Yantai, Shandong, China, 10-12 August 2010*, pages 4440–4444. IEEE, 2010. doi:10.1109/ICNC.2010.5583494.
- [422] Arnaud Malapert. *Techniques d’ordonnancement d’atelier et de fournées basées sur la programmation par contraintes. (Shop and batch scheduling with constraints)*. PhD thesis, École des mines de Nantes, France, 2011. URL: <https://tel.archives-ouvertes.fr/tel-00630122>.
- [423] Arnaud Malapert, Hadrien Cambazard, Christelle Guéret, Narendra Jussien, André Langevin, and Louis-Martin Rousseau. An optimal constraint programming approach to the open-shop problem. *INFORMS J. Comput.*, 24(2):228–244, 2012. URL: <https://doi.org/10.1287/ijoc.1100.0446>, doi:10.1287/IJOC.1100.0446.
- [424] Arnaud Malapert, Hadrien Cambazard, Christelle Guéret, Narendra Jussien, André Langevin, and Louis-Martin Rousseau. An optimal constraint programming approach to the open-shop problem. In Daniel Borrajo, Subbarao Kambhampati, Angelo Oddi, and Simone Fratini, editors, *Proceedings of the Twenty-Third International Conference on Automated Planning and Scheduling, ICAPS 2013, Rome, Italy, June 10-14, 2013*. AAAI, 2013. URL: <http://www.aaai.org/ocs/index.php/ICAPS/ICAPS13/paper/view/6016>.
- [425] Arnaud Malapert and Margaux Nattaf. A new cp-approach for a parallel machine scheduling problem with time constraints on machine qualifications. In Louis-Martin Rousseau and Kostas Stergiou, editors, *Integration of Constraint Programming, Artificial Intelligence, and Operations Research - 16th International Conference, CPAIOR 2019, Thessaloniki, Greece, June 4-7, 2019, Proceedings*, volume 11494 of *Lecture Notes in Computer Science*, pages 426–442. Springer, 2019. doi:10.1007/978-3-030-19212-9_28.
- [426] Abid M. Malik. *Constraint Programming Techniques for Optimal Instruction Scheduling*. PhD thesis, University of Waterloo, Ontario, Canada, 2008. URL: <https://hdl.handle.net/10012/3612>.

- [427] Abid M. Malik, Jim McInnes, and Peter van Beek. Optimal basic block instruction scheduling for multiple-issue processors using constraint programming. *Int. J. Artif. Intell. Tools*, 17(1):37–54, 2008. doi:10.1142/S0218213008003765.
- [428] Christos T. Maravelias and Ignacio E. Grossmann. Using MILP and CP for the scheduling of batch chemical processes. In Jean-Charles Régin and Michel Rueher, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, First International Conference, CPAIOR 2004, Nice, France, April 20-22, 2004, Proceedings*, volume 3011 of *Lecture Notes in Computer Science*, pages 1–20. Springer, 2004. doi:10.1007/978-3-540-24664-0_1.
- [429] Fae Martin, Arthur Pinkney, and Xinghuo Yu. Cane railway scheduling via constraint logic programming: Labelling order and constraints in a real-life application. *Ann. Oper. Res.*, 108(1-4):193–209, 2001. doi:10.1023/A:1016067230126.
- [430] Karim Pérez Martínez, Yossiri Adulyasak, and Raf Jans. Logic-based benders decomposition for integrated process configuration and production planning problems. *INFORMS Journal on Computing*, 34(4):2177–2191, July 2022. URL: <http://dx.doi.org/10.1287/ijoc.2021.1079>, doi:10.1287/ijoc.2021.1079.
- [431] Andrew J. Mason. Elastic constraint branching, the wedelin/carmen lagrangian heuristic and integer programming for personnel scheduling. *Ann. Oper. Res.*, 108(1-4):239–276, 2001. doi:10.1023/A:1016023415105.
- [432] Zahra Mehdizadeh-Somarin, Reza Tavakkoli-Moghaddam, Mohammad Rohaninejad, Zdenek Hanzálek, and Behdin Vahedi Nouri. A constraint programming model for a reconfigurable job shop scheduling problem with machine availability. In Erlend Alfnes, Anita Romsdal, Jan Ola Strandhagen, Gregor von Cieminski, and David Romero, editors, *Advances in Production Management Systems. Production Management Systems for Responsible Manufacturing, Service, and Logistics Futures - IFIP WG 5.7 International Conference, APMS 2023, Trondheim, Norway, September 17-21, 2023, Proceedings, Part III*, volume 691 of *IFIP Advances in Information and Communication Technology*, pages 477–490. Springer, 2023. doi:10.1007/978-3-031-43670-3_33.
- [433] Gonzalo Mejía and Francisco Yuraszeck. A self-tuning variable neighborhood search algorithm and an effective decoding scheme for open shop scheduling problems with travel/setup times. *Eur. J. Oper. Res.*, 285(2):484–496, 2020. URL: <https://doi.org/10.1016/j.ejor.2020.02.010>, doi:10.1016/J.EJOR.2020.02.010.
- [434] Julien Menana. *Automates et programmation par contraintes pour la planification de personnel. (Automata and Constraint Programming for Personnel Scheduling Problems)*. PhD thesis, University of Nantes, France, 2011. URL: <https://tel.archives-ouvertes.fr/tel-00785838>.
- [435] Carlos Mencía, María R. Sierra, and Ramiro Varela. Depth-first heuristic search for the job shop scheduling problem. *Annals of Operations Research*, 206(1):265–296, December 2012. URL: <http://dx.doi.org/10.1007/s10479-012-1296-x>, doi:10.1007/s10479-012-1296-x.
- [436] Carlos Mencía, María R. Sierra, and Ramiro Varela. Intensified iterative deepening a* with application to job shop scheduling. *Journal of Intelligent Manufacturing*, 25(6):1245–1255, January 2013. URL: <http://dx.doi.org/10.1007/s10845-012-0726-6>, doi:10.1007/s10845-012-0726-6.
- [437] Leilei Meng, Chaoyong Zhang, Yaping Ren, Biao Zhang, and Chang Lv. Mixed-integer linear programming and constraint programming formulations for solving distributed flexible job shop scheduling problem. *Comput. Ind. Eng.*, 142:106347, 2020. URL: <https://doi.org/10.1016/j.cie.2020.106347>, doi:10.1016/J.CIE.2020.106347.
- [438] Luc Mercier and Pascal Van Hentenryck. Edge finding for cumulative scheduling. *INFORMS Journal on Computing*, 20(1):143–153, February 2008. URL: <http://dx.doi.org/10.1287/ijoc.1070.0226>, doi:10.1287/ijoc.1070.0226.
- [439] Alexandre Mercier-Aubin, Jonathan Gaudreault, and Claude-Guy Quimper. Leveraging constraint scheduling: A case study to the textile industry. In Emmanuel Hebrard and Nysret Musliu, editors, *Integration of Constraint Programming, Artificial Intelligence, and Operations Research - 17th International Conference, CPAIOR 2020, Vienna, Austria, September 21-24, 2020, Proceedings*, volume 12296 of *Lecture Notes in Computer Science*, pages 334–346. Springer, 2020. doi:10.1007/978-3-030-58942-4_22.

- [440] Michela Milano. *Constraint Programming Links with Math Programming*. Wiley, January 2011. URL: <http://dx.doi.org/10.1002/9780470400531.eorms0473>, doi:10.1002/9780470400531.eorms0473.
- [441] Michela Milano, Greger Ottosson, Philippe Refalo, and Erlendur S. Thorsteinsson. The role of integer programming techniques in constraint programming’s global constraints. *INFORMS Journal on Computing*, 14(4):387–402, November 2002. URL: <http://dx.doi.org/10.1287/ijoc.14.4.387.2830>, doi:10.1287/ijoc.14.4.387.2830.
- [442] Michela Milano and Mark Wallace. Integrating operations research in constraint programming. *4OR*, 4(3):175–219, August 2006. URL: <http://dx.doi.org/10.1007/s10288-006-0019-z>, doi:10.1007/s10288-006-0019-z.
- [443] Michela Milano and Mark Wallace. Integrating operations research in constraint programming. *Annals of Operations Research*, 175(1):37–76, October 2009. URL: <http://dx.doi.org/10.1007/s10479-009-0654-9>, doi:10.1007/s10479-009-0654-9.
- [444] Michael D. Moffitt, Bart Peintner, and Martha E. Pollack. Augmenting disjunctive temporal problems with finite-domain constraints. In Manuela M. Veloso and Subbarao Kambhampati, editors, *Proceedings, The Twentieth National Conference on Artificial Intelligence and the Seventeenth Innovative Applications of Artificial Intelligence Conference, July 9-13, 2005, Pittsburgh, Pennsylvania, USA*, pages 1187–1192. AAAI Press / The MIT Press, 2005. URL: <http://www.aaai.org/Library/AAAI/2005/aaai05-188.php>.
- [445] Mahdi Mokhtarzadeh, Reza Tavakkoli-Moghaddam, Behdin Vahedi Nouri, and Azadeh Farsi. Scheduling of human-robot collaboration in assembly of printed circuit boards: a constraint programming approach. *Int. J. Comput. Integr. Manuf.*, 33(5):460–473, 2020. doi:10.1080/0951192X.2020.1736713.
- [446] Jean-Noël Monette, Yves Deville, and Pierre Dupont. A position-based propagator for the open-shop problem. In Pascal Van Hentenryck and Laurence A. Wolsey, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, 4th International Conference, CPAIOR 2007, Brussels, Belgium, May 23-26, 2007, Proceedings*, volume 4510 of *Lecture Notes in Computer Science*, pages 186–199. Springer, 2007. doi:10.1007/978-3-540-72397-4_14.
- [447] Jean-Noël Monette, Yves Deville, and Pascal Van Hentenryck. Just-in-time scheduling with constraint programming. In Alfonso Gerevini, Adele E. Howe, Amedeo Cesta, and Ioannis Refanidis, editors, *Proceedings of the 19th International Conference on Automated Planning and Scheduling, ICAPS 2009, Thessaloniki, Greece, September 19-23, 2009*. AAAI, 2009. URL: <http://aaai.org/ocs/index.php/ICAPS/ICAPS09/paper/view/712>.
- [448] Roberto Montemanni and Mauro Dell’Amico. Constraint programming models for the parallel drone scheduling vehicle routing problem. *EURO J. Comput. Optim.*, 11:100078, 2023. URL: <https://doi.org/10.1016/j.ejco.2023.100078>, doi:10.1016/J.EJCO.2023.100078.
- [449] Roberto Montemanni and Mauro Dell’Amico. Solving the parallel drone scheduling traveling salesman problem via constraint programming. *Algorithms*, 16(1):40, 2023. URL: <https://doi.org/10.3390/a16010040>, doi:10.3390/A16010040.
- [450] Morten Mossige, Arnaud Gotlieb, Helge Spieker, Hein Meling, and Mats Carlsson. Time-aware test case execution scheduling for cyber-physical systems. In J. Christopher Beck, editor, *Principles and Practice of Constraint Programming - 23rd International Conference, CP 2017, Melbourne, VIC, Australia, August 28 - September 1, 2017, Proceedings*, volume 10416 of *Lecture Notes in Computer Science*, pages 387–404. Springer, 2017. doi:10.1007/978-3-319-66158-2_25.
- [451] Arnaldo Vieira Moura, Cid C. de Souza, André A. Ciré, and Tony Minoru Tamura Lopes. Heuristics and constraint programming hybridizations for a real pipeline planning and scheduling problem. In *Proceedings of the 11th IEEE International Conference on Computational Science and Engineering, CSE 2008, São Paulo, SP, Brazil, July 16-18, 2008*, pages 455–462. IEEE Computer Society, 2008. doi:10.1109/CSE.2008.24.

- [452] Arnaldo Vieira Moura, Cid C. de Souza, André A. Ciré, and Tony Minoru Tamura Lopes. Planning and scheduling the operation of a very large oil pipeline network. In Peter J. Stuckey, editor, *Principles and Practice of Constraint Programming, 14th International Conference, CP 2008, Sydney, Australia, September 14-18, 2008. Proceedings*, volume 5202 of *Lecture Notes in Computer Science*, pages 36–51. Springer, 2008. doi:10.1007/978-3-540-85958-1_3.
- [453] David Müller, Marcus Gerhard Müller, Dominik Kress, and Erwin Pesch. An algorithm selection approach for the flexible job shop scheduling problem: Choosing constraint programming solvers through machine learning. *Eur. J. Oper. Res.*, 302(3):874–891, 2022. URL: <https://doi.org/10.1016/j.ejor.2022.01.034>, doi:10.1016/J.EJOR.2022.01.034.
- [454] Stanislav Murín and Hana Rudová. Scheduling of mobile robots using constraint programming. In Thomas Schiex and Simon de Givry, editors, *Principles and Practice of Constraint Programming - 25th International Conference, CP 2019, Stamford, CT, USA, September 30 - October 4, 2019, Proceedings*, volume 11802 of *Lecture Notes in Computer Science*, pages 456–471. Springer, 2019. doi:10.1007/978-3-030-30048-7_27.
- [455] Seán Óg Murphy, Oscar Manzano, and Kenneth N. Brown. Design and evaluation of a constraint-based energy saving and scheduling recommender system. In Gilles Pesant, editor, *Principles and Practice of Constraint Programming - 21st International Conference, CP 2015, Cork, Ireland, August 31 - September 4, 2015, Proceedings*, volume 9255 of *Lecture Notes in Computer Science*, pages 687–703. Springer, 2015. doi:10.1007/978-3-319-23219-5_47.
- [456] Nicola Muscettola. Computing the envelope for stepwise-constant resource allocations. In Pascal Van Hentenryck, editor, *Principles and Practice of Constraint Programming - CP 2002, 8th International Conference, CP 2002, Ithaca, NY, USA, September 9-13, 2002, Proceedings*, volume 2470 of *Lecture Notes in Computer Science*, pages 139–154. Springer, 2002. doi:10.1007/3-540-46135-3_10.
- [457] Nysret Musliu, Andreas Schutt, and Peter J. Stuckey. Solver independent rotating workforce scheduling. In Willem-Jan van Hoeve, editor, *Integration of Constraint Programming, Artificial Intelligence, and Operations Research - 15th International Conference, CPAIOR 2018, Delft, The Netherlands, June 26-29, 2018, Proceedings*, volume 10848 of *Lecture Notes in Computer Science*, pages 429–445. Springer, 2018. doi:10.1007/978-3-319-93031-2_31.
- [458] Bahman Naderi, Mehmet A. Begen, and Gregory S. Zaric. Type-2 integrated process-planning and scheduling problem: Reformulation and solution algorithms. *Computers & Operations Research*, 142:105728, June 2022. URL: <http://dx.doi.org/10.1016/j.cor.2022.105728>, doi:10.1016/j.cor.2022.105728.
- [459] Bahman Naderi, Mehmet A. Begen, and Guoqing Zhang. Integrated order acceptance and resource decisions under uncertainty: Robust and stochastic approaches. *SSRN Electronic Journal*, 2022. URL: <http://dx.doi.org/10.2139/ssrn.4140716>, doi:10.2139/ssrn.4140716.
- [460] Bahman Naderi and Vahid Roshanaei. Critical-path-search logic-based benders decomposition approaches for flexible job shop scheduling. *INFORMS Journal on Optimization*, 4(1):1–28, January 2022. URL: <http://dx.doi.org/10.1287/ijoo.2021.0056>, doi:10.1287/ijoo.2021.0056.
- [461] Bahman Naderi, Vahid Roshanaei, Mehmet A. Begen, Dionne M. Aleman, and David R. Urbach. Increased surgical capacity without additional resources: Generalized operating room planning and scheduling. *Production and Operations Management*, 30(8):2608–2635, August 2021. URL: <http://dx.doi.org/10.1111/poms.13397>, doi:10.1111/poms.13397.
- [462] Bahman Naderi, Rubén Ruiz, and Vahid Roshanaei. Mixed-integer programming vs. constraint programming for shop scheduling problems: New results and outlook. *INFORMS Journal on Computing*, 35(4):817–843, 2023. arXiv:<https://doi.org/10.1287/ijoc.2023.1287>, doi:10.1287/ijoc.2023.1287.
- [463] Margaux Nattaf. *Ordonnancement sous contraintes d’énergie*. Theses, UPS Toulouse - Université Toulouse 3 Paul Sabatier, October 2016. URL: <https://laas.hal.science/tel-01417288>.
- [464] Margaux Nattaf, Christian Artigues, and Pierre Lopez. A hybrid exact method for a scheduling problem with a continuous resource and energy constraints. *Constraints An Int. J.*, 20(3):304–324, 2015. URL: <https://doi.org/10.1007/s10601-015-9192-z>, doi:10.1007/S10601-015-9192-Z.

- [465] Margaux Nattaf, Christian Artigues, and Pierre Lopez. Cumulative scheduling with variable task profiles and concave piecewise linear processing rate functions. *Constraints An Int. J.*, 22(4):530–547, 2017. URL: <https://doi.org/10.1007/s10601-017-9271-4>, doi:10.1007/S10601-017-9271-4.
- [466] Margaux Nattaf, Christian Artigues, Pierre Lopez, and David Rivreau. Energetic reasoning and mixed-integer linear programming for scheduling with a continuous resource and linear efficiency functions. *OR Spectr.*, 38(2):459–492, 2016. URL: <https://doi.org/10.1007/s00291-015-0423-x>, doi:10.1007/S00291-015-0423-X.
- [467] Margaux Nattaf, Stéphane Dauzère-Pérès, Claude Yugma, and Cheng-Hung Wu. Parallel machine scheduling with time constraints on machine qualifications. *Comput. Oper. Res.*, 107:61–76, 2019. URL: <https://doi.org/10.1016/j.cor.2019.03.004>, doi:10.1016/J.COR.2019.03.004.
- [468] Margaux Nattaf, Markó Horváth, Tamás Kis, Christian Artigues, and Pierre Lopez. Polyhedral results and valid inequalities for the continuous energy-constrained scheduling problem. *Discret. Appl. Math.*, 258:188–203, 2019. URL: <https://doi.org/10.1016/j.dam.2018.11.008>, doi:10.1016/J.DAM.2018.11.008.
- [469] Margaux Nattaf and Arnaud Malapert. Filtering rules for flow time minimization in a parallel machine scheduling problem. In Helmut Simonis, editor, *Principles and Practice of Constraint Programming - 26th International Conference, CP 2020, Louvain-la-Neuve, Belgium, September 7-11, 2020, Proceedings*, volume 12333 of *Lecture Notes in Computer Science*, pages 462–477. Springer, 2020. doi:10.1007/978-3-030-58475-7_27.
- [470] Nicholas Nethercote, Peter J. Stuckey, Ralph Becket, Sebastian Brand, Gregory J. Duck, and Guido Tack. Minizinc: Towards a standard CP modelling language. In Christian Bessiere, editor, *Principles and Practice of Constraint Programming - CP 2007, 13th International Conference, CP 2007, Providence, RI, USA, September 23-27, 2007, Proceedings*, volume 4741 of *Lecture Notes in Computer Science*, pages 529–543. Springer, 2007. doi:10.1007/978-3-540-74970-7_38.
- [471] Su Nguyen, Dhananjay R. Thiruvady, Yuan Sun, and Mengjie Zhang. Genetic-based constraint programming for resource constrained job scheduling. *CoRR*, abs/2402.00459, 2024. URL: <https://doi.org/10.48550/arXiv.2402.00459>, arXiv:2402.00459, doi:10.48550/ARXIV.2402.00459.
- [472] Hiroki Nishikawa, Kana Shimada, Ittetsu Taniguchi, and Hiroyuki Tomiyama. Scheduling of malleable fork-join tasks with constraint programming. In *Sixth International Symposium on Computing and Networking, CANDAR 2018, Takayama, Japan, November 23-27, 2018*, pages 133–138. IEEE Computer Society, 2018. doi:10.1109/CANDAR.2018.00025.
- [473] Hiroki Nishikawa, Kana Shimada, Ittetsu Taniguchi, and Hiroyuki Tomiyama. Scheduling of malleable tasks based on constraint programming. In *TENCON 2018 - 2018 IEEE Region 10 Conference, Jeju, South Korea, October 28-31, 2018*, pages 1493–1498. IEEE, 2018. doi:10.1109/TENCON.2018.8650168.
- [474] Hiroki Nishikawa, Kana Shimada, Ittetsu Taniguchi, and Hiroyuki Tomiyama. A constraint programming approach to scheduling of malleable tasks. *Int. J. Netw. Comput.*, 9(2):131–146, 2019. URL: <http://www.ijnc.org/index.php/ijnc/article/view/201>.
- [475] Franco M. Novara, Juan M. Novas, and Gabriela P. Henning. A novel constraint programming model for large-scale scheduling problems in multiproduct multistage batch plants: Limited resources and campaign-based operation. *Comput. Chem. Eng.*, 93:101–117, 2016. URL: <https://doi.org/10.1016/j.compchemeng.2016.04.030>, doi:10.1016/J.COMPCHENG.2016.04.030.
- [476] Juan M. Novas. Production scheduling and lot streaming at flexible job-shops environments using constraint programming. *Comput. Ind. Eng.*, 136:252–264, 2019. URL: <https://doi.org/10.1016/j.cie.2019.07.011>, doi:10.1016/J.CIE.2019.07.011.
- [477] Juan M. Novas and Gabriela P. Henning. Reactive scheduling framework based on domain knowledge and constraint programming. *Comput. Chem. Eng.*, 34(12):2129–2148, 2010. URL: <https://doi.org/10.1016/j.compchemeng.2010.07.011>, doi:10.1016/J.COMPCHENG.2010.07.011.

- [478] Juan M. Novas and Gabriela P. Henning. A comprehensive constraint programming approach for the rolling horizon-based scheduling of automated wet-etch stations. *Comput. Chem. Eng.*, 42:189–205, 2012. URL: <https://doi.org/10.1016/j.compchemeng.2012.01.005>, doi:10.1016/J.COMPCHEMENG.2012.01.005.
- [479] Juan M. Novas and Gabriela P. Henning. Integrated scheduling of resource-constrained flexible manufacturing systems using constraint programming. *Expert Syst. Appl.*, 41(5):2286–2299, 2014. URL: <https://doi.org/10.1016/j.eswa.2013.09.026>, doi:10.1016/J.ESWA.2013.09.026.
- [480] W. P. M. Nuijten and Emile H. L. Aarts. Constraint satisfaction for multiple capacitated job shop scheduling. In Anthony G. Cohn, editor, *Proceedings of the Eleventh European Conference on Artificial Intelligence, Amsterdam, The Netherlands, August 8-12, 1994*, pages 635–639. John Wiley and Sons, Chichester, 1994.
- [481] Wim Nuijten and Claude Le Pape. Constraint-based job shop scheduling with \sc ilog scheduler. *J. Heuristics*, 3(4):271–286, 1998. doi:10.1023/A:1009687210594.
- [482] W.P.M. Nuijten and E.H.L. Aarts. A computational study of constraint satisfaction for multiple capacitated job shop scheduling. *European Journal of Operational Research*, 90(2):269–284, April 1996. URL: [http://dx.doi.org/10.1016/0377-2217\(95\)00354-1](http://dx.doi.org/10.1016/0377-2217(95)00354-1), doi:10.1016/0377-2217(95)00354-1.
- [483] Emmanuel Néron, Christian Artigues, Philippe Baptiste, Jacques Carlier, Jean Damay, Sophie Demasse, and Philippe Laborie. *Lower Bounds for Resource Constrained Project Scheduling Problem*, page 167–204. Springer US, 2006. URL: http://dx.doi.org/10.1007/978-0-387-33768-5_7, doi:10.1007/978-0-387-33768-5_7.
- [484] Angelo Oddi, Nicola Policella, Amedeo Cesta, and Gabriella Cortellessa. Generating high quality schedules for a spacecraft memory downlink problem. In Francesca Rossi, editor, *Principles and Practice of Constraint Programming - CP 2003, 9th International Conference, CP 2003, Kinsale, Ireland, September 29 - October 3, 2003, Proceedings*, volume 2833 of *Lecture Notes in Computer Science*, pages 570–584. Springer, 2003. doi:10.1007/978-3-540-45193-8_39.
- [485] Olga Ohrimenko, Peter J. Stuckey, and Michael Codish. Propagation via lazy clause generation. *Constraints*, 14(3):357–391, January 2009. URL: <http://dx.doi.org/10.1007/s10601-008-9064-x>, doi:10.1007/s10601-008-9064-x.
- [486] Pierre Ouellet and Claude-Guy Quimper. Time-table extended-edge-finding for the cumulative constraint. In Christian Schulte, editor, *Principles and Practice of Constraint Programming - 19th International Conference, CP 2013, Uppsala, Sweden, September 16-20, 2013. Proceedings*, volume 8124 of *Lecture Notes in Computer Science*, pages 562–577. Springer, 2013. doi:10.1007/978-3-642-40627-0_42.
- [487] Yanick Ouellet and Claude-Guy Quimper. A $O(n \log^2 n)$ checker and $O(n^2 \log n)$ filtering algorithm for the energetic reasoning. In Willem Jan van Hoeve, editor, *Integration of Constraint Programming, Artificial Intelligence, and Operations Research - 15th International Conference, CPAIOR 2018, Delft, The Netherlands, June 26-29, 2018, Proceedings*, volume 10848 of *Lecture Notes in Computer Science*, pages 477–494. Springer, 2018. doi:10.1007/978-3-319-93031-2_34.
- [488] Yanick Ouellet and Claude-Guy Quimper. A mincumulative resource constraint. In Pierre Schaus, editor, *Integration of Constraint Programming, Artificial Intelligence, and Operations Research - 19th International Conference, CPAIOR 2022, Los Angeles, CA, USA, June 20-23, 2022, Proceedings*, volume 13292 of *Lecture Notes in Computer Science*, pages 318–334. Springer, 2022. doi:10.1007/978-3-031-08011-1_21.
- [489] Soukaina Oujana, Lionel Amodeo, Farouk Yalaoui, and D. Brodard. Solving a realistic hybrid and flexible flow shop scheduling problem through constraint programming: industrial case in a packaging company. In *8th International Conference on Control, Decision and Information Technologies, CoDIT 2022, Istanbul, Turkey, May 17-20, 2022*, pages 106–111. IEEE, 2022. URL: <https://doi.org/10.1109/CoDIT55151.2022.9803972>, doi:10.1109/CODIT55151.2022.9803972.
- [490] Cemalettin Öztürk, Semra Tunali, Brahim Hnich, and M. Arslan Ornek. Balancing and scheduling of flexible mixed model assembly lines. *Constraints An Int. J.*, 18(3):434–469, 2013. URL: <https://doi.org/10.1007/s10601-013-9142-6>, doi:10.1007/S10601-013-9142-6.

- [491] Vaibhav Pandey and Poonam Saini. Constraint programming versus heuristic approach to mapreduce scheduling problem in hadoop YARN for energy minimization. *J. Supercomput.*, 77(7):6788–6816, 2021. URL: <https://doi.org/10.1007/s11227-020-03516-3>, doi:10.1007/S11227-020-03516-3.
- [492] Claude Le Pape. Implementation of resource constraints in ilog schedule: a library for the development of constraint-based scheduling systems. *Intelligent Systems Engineering*, 3(2):55, 1994. URL: <http://dx.doi.org/10.1049/ise.1994.0009>, doi:10.1049/ise.1994.0009.
- [493] Claude Le Pape and Philippe Baptiste. A constraint programming library for preemptive and non-preemptive scheduling. In Mark Wallace, editor, *Proceedings of the Third International Conference on the Practical Application of Constraint Technology, PACT 1997, Westminster Central Hall, London, UK, April 23-25, 1997*, pages 237–256. Practical Application Company Ltd., 1997.
- [494] Claude Le Pape and Philippe Baptiste. Resource constraints for preemptive job-shop scheduling. *Constraints An Int. J.*, 3(4):263–287, 1998. doi:10.1023/A:1009723704757.
- [495] Hoonseok Park, Jumyung Um, Jae-Yoon Jung, and Martin Ruskowski. Developing a production scheduling system for modular factory using constraint programming. In Karsten Berns and Daniel Görges, editors, *Advances in Service and Industrial Robotics - Proceedings of the 28th International Conference on Robotics in Alpe-Adria-Danube Region, RAAD 2019, Kaiserslautern, Germany, June 19-21, 2019*, volume 980 of *Advances in Intelligent Systems and Computing*, pages 126–133. Springer, 2019. doi:10.1007/978-3-030-19648-6_15.
- [496] Joseph C. Pemberton and Flavius Galiber III. A constraint-based approach to satellite scheduling. In Eugene C. Freuder and Richard J. Wallace, editors, *Constraint Programming and Large Scale Discrete Optimization, Proceedings of a DIMACS Workshop, Princeton, New Jersey, USA, September 14-17, 1998*, volume 57 of *DIMACS Series in Discrete Mathematics and Theoretical Computer Science*, pages 101–114. DIMACS/AMS, 1998. URL: <https://doi.org/10.1090/dimacs/057/06>, doi:10.1090/DIMACS/057/06.
- [497] Louise Penz, Stéphane Dauzère-Pérès, and Margaux Nattaf. Minimizing the sum of completion times on a single machine with health index and flexible maintenance operations. *Comput. Oper. Res.*, 151:106092, 2023. URL: <https://doi.org/10.1016/j.cor.2022.106092>, doi:10.1016/J.COR.2022.106092.
- [498] Guillaume Perez, Gaël Glorian, Wijnand Suijlen, and Arnaud Lallouet. A constraint programming model for scheduling the unloading of trains in ports. In *35th IEEE International Conference on Tools with Artificial Intelligence, ICTAI 2023, Atlanta, GA, USA, November 6-8, 2023*, pages 693–699. IEEE, 2023. doi:10.1109/ICTAI59109.2023.00108.
- [499] Guillaume Perez, Gael Glorian, Wijnand Suijlen, and Arnaud Lallouet. A constraint programming model for scheduling the unloading of trains in ports: Extended. *CoRR*, abs/2312.13682, 2023. URL: <https://doi.org/10.48550/arXiv.2312.13682>, arXiv:2312.13682, doi:10.48550/ARXIV.2312.13682.
- [500] Gilles Pesant, Gregory Rix, and Louis-Martin Rousseau. A comparative study of MIP and CP formulations for the B2B scheduling optimization problem. In Laurent Michel, editor, *Integration of AI and OR Techniques in Constraint Programming - 12th International Conference, CPAIOR 2015, Barcelona, Spain, May 18-22, 2015, Proceedings*, volume 9075 of *Lecture Notes in Computer Science*, pages 306–321. Springer, 2015. doi:10.1007/978-3-319-18008-3_21.
- [501] Thierry Petit and Emmanuel Poder. The soft cumulative constraint. *CoRR*, abs/0907.0939, 2009. URL: <http://arxiv.org/abs/0907.0939>, arXiv:0907.0939.
- [502] Emmanuel Poder and Nicolas Beldiceanu. Filtering for a continuous multi-resources cumulative constraint with resource consumption and production. In Jussi Rintanen, Bernhard Nebel, J. Christopher Beck, and Eric A. Hansen, editors, *Proceedings of the Eighteenth International Conference on Automated Planning and Scheduling, ICAPS 2008, Sydney, Australia, September 14-18, 2008*, pages 264–271. AAAI, 2008. URL: <http://www.aaai.org/Library/ICAPS/2008/icaps08-033.php>.

- [503] Emmanuel Poder, Nicolas Beldiceanu, and Eric Sanlaville. Computing a lower approximation of the compulsory part of a task with varying duration and varying resource consumption. *Eur. J. Oper. Res.*, 153(1):239–254, 2004. doi:10.1016/S0377-2217(02)00756-7.
- [504] Maximilian Pohl, Christian Artigues, and Rainer Kolisch. Solving the time-discrete winter runway scheduling problem: A column generation and constraint programming approach. *Eur. J. Oper. Res.*, 299(2):674–689, 2022. URL: <https://doi.org/10.1016/j.ejor.2021.08.028>, doi:10.1016/J.EJOR.2021.08.028.
- [505] Oliver Polo-Mejía, Christian Artigues, Pierre Lopez, and Virginie Basini. Mixed-integer/linear and constraint programming approaches for activity scheduling in a nuclear research facility. *Int. J. Prod. Res.*, 58(23):7149–7166, 2020. doi:10.1080/00207543.2019.1693654.
- [506] Louis Popovic, Alain Côté, Mohamed Gaha, Franklin Nguemouo, and Quentin Cappart. Scheduling the equipment maintenance of an electric power transmission network using constraint programming. In Christine Solnon, editor, *28th International Conference on Principles and Practice of Constraint Programming, CP 2022, July 31 to August 8, 2022, Haifa, Israel*, volume 235 of *LIPIcs*, pages 34:1–34:15. Schloss Dagstuhl - Leibniz-Zentrum für Informatik, 2022. URL: <https://doi.org/10.4230/LIPIcs.CP.2022.34>, doi:10.4230/LIPIcs.CP.2022.34.
- [507] Shahrzad M. Pour, John H. Drake, Lena Secher Ejlersen, Kourosh Marjani Rasmussen, and Edmund K. Burke. A hybrid constraint programming/mixed integer programming framework for the preventive signaling maintenance crew scheduling problem. *Eur. J. Oper. Res.*, 269(1):341–352, 2018. URL: <https://doi.org/10.1016/j.ejor.2017.08.033>, doi:10.1016/J.EJOR.2017.08.033.
- [508] Guillaume Povéda, Nahum Álvarez, and Christian Artigues. Partially preemptive multi skill/mode resource-constrained project scheduling with generalized precedence relations and calendars. In Roland H. C. Yap, editor, *29th International Conference on Principles and Practice of Constraint Programming, CP 2023, August 27-31, 2023, Toronto, Canada*, volume 280 of *LIPIcs*, pages 31:1–31:21. Schloss Dagstuhl - Leibniz-Zentrum für Informatik, 2023. URL: <https://doi.org/10.4230/LIPIcs.CP.2023.31>, doi:10.4230/LIPIcs.CP.2023.31.
- [509] Cédric Pralet. An incomplete constraint-based system for scheduling with renewable resources. In J. Christopher Beck, editor, *Principles and Practice of Constraint Programming - 23rd International Conference, CP 2017, Melbourne, VIC, Australia, August 28 - September 1, 2017, Proceedings*, volume 10416 of *Lecture Notes in Computer Science*, pages 243–261. Springer, 2017. doi:10.1007/978-3-319-66158-2_16.
- [510] Cédric Pralet, Solange Lemai-Chenevier, and Jean Jaubert. Scheduling running modes of satellite instruments using constraint-based local search. In Gilles Pesant, editor, *Principles and Practice of Constraint Programming - 21st International Conference, CP 2015, Cork, Ireland, August 31 - September 4, 2015, Proceedings*, volume 9255 of *Lecture Notes in Computer Science*, pages 704–719. Springer, 2015. doi:10.1007/978-3-319-23219-5_48.
- [511] Bruno A. Prata, Levi R. Abreu, and Marcelo S. Nagano. Applications of constraint programming in production scheduling problems: A descriptive bibliometric analysis. *Results in Control and Optimization*, 14:100350, 2024. URL: <https://www.sciencedirect.com/science/article/pii/S2666720723001522>, doi: <https://doi.org/10.1016/j.rico.2023.100350>.
- [512] Jean-Francois Puget. Applications of constraint programming. In Ugo Montanari and Francesca Rossi, editors, *Principles and Practice of Constraint Programming - CP'95, First International Conference, CP'95, Cassis, France, September 19-22, 1995, Proceedings*, volume 976 of *Lecture Notes in Computer Science*, pages 647–650. Springer, 1995. doi:10.1007/3-540-60299-2_43.
- [513] Ming Qin, Runsen Wang, Zhongshun Shi, Lingxuan Liu, and Leyuan Shi. A genetic programming-based scheduling approach for hybrid flow shop with a batch processor and waiting time constraint. *IEEE Trans Autom. Sci. Eng.*, 18(1):94–105, 2021. doi:10.1109/TASE.2019.2947398.
- [514] Tianbao Qin, Yuquan Du, Jiang Hang Chen, and Mei Sha. Combining mixed integer programming and constraint programming to solve the integrated scheduling problem of container handling operations of a single vessel. *Eur. J. Oper. Res.*, 285(3):884–901, 2020. URL: <https://doi.org/10.1016/j.ejor.2020.02.021>, doi:10.1016/J.EJOR.2020.02.021.

- [515] Yang Qu, Juha-Pekka Soininen, and Jari Nurmi. Using constraint programming to achieve optimal prefetch scheduling for dependent tasks on run-time reconfigurable devices. In *International Symposium on System-on-Chip, SoC 2006, Tampere, Finland, November 13-16, 2006*, pages 1–4. IEEE, 2006. doi:10.1109/ISSOC.2006.321973.
- [516] Oscar Quiroga, Luis Zeballos, and Gabriela P. Henning. A constraint programming approach to tool allocation and resource scheduling in FMS. In *Proceedings of the 2005 IEEE International Conference on Robotics and Automation, ICRA 2005, April 18-22, 2005, Barcelona, Spain*, pages 3715–3720. IEEE, 2005. doi:10.1109/ROBOT.2005.1570686.
- [517] Ragheb Rahmaniani, Teodor Gabriel Crainic, Michel Gendreau, and Walter Rei. The benders decomposition algorithm: A literature review. *European Journal of Operational Research*, 259(3):801–817, June 2017. URL: <http://dx.doi.org/10.1016/j.ejor.2016.12.005>, doi:10.1016/j.ejor.2016.12.005.
- [518] Andrea Rendl, Matthias Prandtstetter, Gerhard Hiermann, Jakob Puchinger, and Günther R. Raidl. Hybrid heuristics for multimodal homecare scheduling. In Nicolas Beldiceanu, Narendra Jussien, and Eric Pinson, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems - 9th International Conference, CPAIOR 2012, Nantes, France, May 28 - June 1, 2012. Proceedings*, volume 7298 of *Lecture Notes in Computer Science*, pages 339–355. Springer, 2012. doi:10.1007/978-3-642-29828-8_22.
- [519] Vahid Riahi, M. A. Hakim Newton, Kaile Su, and Abdul Sattar. Local search for flowshops with setup times and blocking constraints. In Mathijs de Weerd, Sven Koenig, Gabriele Röger, and Matthijs T. J. Spaan, editors, *Proceedings of the Twenty-Eighth International Conference on Automated Planning and Scheduling, ICAPS 2018, Delft, The Netherlands, June 24-29, 2018*, pages 199–207. AAAI Press, 2018. URL: <https://aaai.org/ocs/index.php/ICAPS/ICAPS18/paper/view/17755>.
- [520] Robert Rodosek and Mark Wallace. A generic model and hybrid algorithm for hoist scheduling problems. In Michael J. Maher and Jean-Francois Puget, editors, *Principles and Practice of Constraint Programming - CP98, 4th International Conference, Pisa, Italy, October 26-30, 1998, Proceedings*, volume 1520 of *Lecture Notes in Computer Science*, pages 385–399. Springer, 1998. doi:10.1007/3-540-49481-2_28.
- [521] Joaquin Rodriguez, Xavier Delorme, and Xavier Gandibleux. Railway infrastructure saturation using constraint programming approach. *Computers in Railways VIII*, pages 807–816, 01 2002.
- [522] Joaquín Rodríguez. A constraint programming model for real-time train scheduling at junctions. *Transportation Research Part B: Methodological*, 41(2):231–245, 2007. Advanced Modelling of Train Operations in Stations and Networks. URL: <https://www.sciencedirect.com/science/article/pii/S0191261506000233>, doi:<https://doi.org/10.1016/j.trb.2006.02.006>.
- [523] Vahid Roshanaei, Kyle E.C. Booth, Dionne M. Aleman, David R. Urbach, and J. Christopher Beck. Branch-and-check methods for multi-level operating room planning and scheduling. *International Journal of Production Economics*, 220:107433, February 2020. URL: <http://dx.doi.org/10.1016/j.ijpe.2019.07.006>, doi:10.1016/j.ijpe.2019.07.006.
- [524] Vahid Roshanaei, Curtiss Luong, Dionne M. Aleman, and David Urbach. Propagating logic-based benders’ decomposition approaches for distributed operating room scheduling. *European Journal of Operational Research*, 257(2):439–455, March 2017. URL: <http://dx.doi.org/10.1016/j.ejor.2016.08.024>, doi:10.1016/j.ejor.2016.08.024.
- [525] Vahid Roshanaei, Curtiss Luong, Dionne M. Aleman, and David R. Urbach. Collaborative operating room planning and scheduling. *INFORMS Journal on Computing*, 29(3):558–580, August 2017. URL: <http://dx.doi.org/10.1287/ijoc.2017.0745>, doi:10.1287/ijoc.2017.0745.

- [526] Roberto Rossi, Armagan Tarim, Brahim Hnich, and Steven D. Prestwich. Replenishment planning for stochastic inventory systems with shortage cost. In Pascal Van Hentenryck and Laurence A. Wolsey, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, 4th International Conference, CPAIOR 2007, Brussels, Belgium, May 23-26, 2007, Proceedings*, volume 4510 of *Lecture Notes in Computer Science*, pages 229–243. Springer, 2007. doi:10.1007/978-3-540-72397-4_17.
- [527] Martino Ruggiero, Davide Bertozzi, Luca Benini, Michela Milano, and Alexandru Andrei. Reducing the abstraction and optimality gaps in the allocation and scheduling for variable voltage/frequency mpsoC platforms. *IEEE Trans. Comput. Aided Des. Integr. Circuits Syst.*, 28(3):378–391, 2009. doi:10.1109/TCAD.2009.2013536.
- [528] David Sacramento, Christine Solnon, and David Pisinger. Constraint programming and local search heuristic: a matheuristic approach for routing and scheduling feeder vessels in multi-terminal ports. *Oper. Res. Forum*, 1(4), 2020. URL: <https://doi.org/10.1007/s43069-020-00036-x>, doi:10.1007/s43069-020-00036-x.
- [529] Ruslan Sadykov. A hybrid branch-and-cut algorithm for the one-machine scheduling problem. In Jean-Charles Régin and Michel Rueher, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, First International Conference, CPAIOR 2004, Nice, France, April 20-22, 2004, Proceedings*, volume 3011 of *Lecture Notes in Computer Science*, pages 409–415. Springer, 2004. doi:10.1007/978-3-540-24664-0_31.
- [530] Ruslan Sadykov and Laurence A. Wolsey. Integer programming and constraint programming in solving a multimachine assignment scheduling problem with deadlines and release dates. *INFORMS J. Comput.*, 18(2):209–217, 2006. URL: <https://doi.org/10.1287/ijoc.1040.0110>, doi:10.1287/IJOC.1040.0110.
- [531] Hani El Sakkout and Mark Wallace. Probe backtrack search for minimal perturbation in dynamic scheduling. *Constraints An Int. J.*, 5(4):359–388, 2000. doi:10.1023/A:1009856210543.
- [532] Pierre Schaus and Yves Deville. A global constraint for bin-packing with precedences: Application to the assembly line balancing problem. In Dieter Fox and Carla P. Gomes, editors, *Proceedings of the Twenty-Third AAAI Conference on Artificial Intelligence, AAAI 2008, Chicago, Illinois, USA, July 13-17, 2008*, pages 369–374. AAAI Press, 2008. URL: <http://www.aaai.org/Library/AAAI/2008/aaai08-058.php>.
- [533] Pierre Schaus, Pascal Van Hentenryck, Jean-Noël Monette, Carleton Coffrin, Laurent Michel, and Yves Deville. Solving steel mill slab problems with constraint-based techniques: Cp, lns, and CBLS. *Constraints An Int. J.*, 16(2):125–147, 2011. URL: <https://doi.org/10.1007/s10601-010-9100-5>, doi:10.1007/s10601-010-9100-5.
- [534] Klaus Schild and Jörg Würtz. Scheduling of time-triggered real-time systems. *Constraints An Int. J.*, 5(4):335–357, 2000. doi:10.1023/A:1009804226473.
- [535] Alexander Schnell and Richard F. Hartl. On the efficient modeling and solution of the multi-mode resource-constrained project scheduling problem with generalized precedence relations. *OR Spectrum*, 38(2):283–303, October 2015. URL: <http://dx.doi.org/10.1007/s00291-015-0419-6>, doi:10.1007/s00291-015-0419-6.
- [536] Andreas Schutt. *Improving Scheduling by Learning*. PhD thesis, University of Melbourne, Australia, 2011. URL: https://www.a4cp.org/sites/default/files/andreas_schutt_-_improving_scheduling_by_learning.pdf.
- [537] Andreas Schutt, Geoffrey Chu, Peter J. Stuckey, and Mark G. Wallace. Maximising the net present value for resource-constrained project scheduling. In Nicolas Beldiceanu, Narendra Jussien, and Eric Pinson, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems - 9th International Conference, CPAIOR 2012, Nantes, France, May 28 - June 1, 2012. Proceedings*, volume 7298 of *Lecture Notes in Computer Science*, pages 362–378. Springer, 2012. doi:10.1007/978-3-642-29828-8_24.

- [538] Andreas Schutt, Thibaut Feydy, and Peter J. Stuckey. Explaining time-table-edge-finding propagation for the cumulative resource constraint. In Carla P. Gomes and Meinolf Sellmann, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, 10th International Conference, CPAIOR 2013, Yorktown Heights, NY, USA, May 18-22, 2013. Proceedings*, volume 7874 of *Lecture Notes in Computer Science*, pages 234–250. Springer, 2013. doi:10.1007/978-3-642-38171-3_16.
- [539] Andreas Schutt, Thibaut Feydy, and Peter J. Stuckey. Scheduling optional tasks with explanation. In Christian Schulte, editor, *Principles and Practice of Constraint Programming - 19th International Conference, CP 2013, Uppsala, Sweden, September 16-20, 2013. Proceedings*, volume 8124 of *Lecture Notes in Computer Science*, pages 628–644. Springer, 2013. doi:10.1007/978-3-642-40627-0_47.
- [540] Andreas Schutt, Thibaut Feydy, Peter J. Stuckey, and Mark Wallace. Why cumulative decomposition is not as bad as it sounds. In Ian P. Gent, editor, *Principles and Practice of Constraint Programming - CP 2009, 15th International Conference, CP 2009, Lisbon, Portugal, September 20-24, 2009, Proceedings*, volume 5732 of *Lecture Notes in Computer Science*, pages 746–761. Springer, 2009. doi:10.1007/978-3-642-04244-7_58.
- [541] Andreas Schutt, Thibaut Feydy, Peter J. Stuckey, and Mark G. Wallace. Solving the resource constrained project scheduling problem with generalized precedences by lazy clause generation. *CoRR*, abs/1009.0347, 2010. URL: <http://arxiv.org/abs/1009.0347>, arXiv:1009.0347.
- [542] Andreas Schutt, Thibaut Feydy, Peter J. Stuckey, and Mark G. Wallace. Explaining the cumulative propagator. *Constraints An Int. J.*, 16(3):250–282, 2011. URL: <https://doi.org/10.1007/s10601-010-9103-2>, doi:10.1007/S10601-010-9103-2.
- [543] Andreas Schutt, Thibaut Feydy, Peter J. Stuckey, and Mark G. Wallace. Solving rcpsp/max by lazy clause generation. *J. Sched.*, 16(3):273–289, 2013. URL: <https://doi.org/10.1007/s10951-012-0285-x>, doi:10.1007/S10951-012-0285-X.
- [544] Andreas Schutt, Thibaut Feydy, Peter J. Stuckey, and Mark G. Wallace. *A Satisfiability Solving Approach*, pages 135–160. Springer International Publishing, Cham, 2015. doi:10.1007/978-3-319-05443-8_7.
- [545] Andreas Schutt and Peter J. Stuckey. Explaining producer/consumer constraints. In Michel Rueher, editor, *Principles and Practice of Constraint Programming - 22nd International Conference, CP 2016, Toulouse, France, September 5-9, 2016, Proceedings*, volume 9892 of *Lecture Notes in Computer Science*, pages 438–454. Springer, 2016. doi:10.1007/978-3-319-44953-1_28.
- [546] Andreas Schutt and Armin Wolf. A new $O(n^2 \log n)$ not-first/not-last pruning algorithm for cumulative resource constraints. In David Cohen, editor, *Principles and Practice of Constraint Programming - CP 2010 - 16th International Conference, CP 2010, St. Andrews, Scotland, UK, September 6-10, 2010. Proceedings*, volume 6308 of *Lecture Notes in Computer Science*, pages 445–459. Springer, 2010. doi:10.1007/978-3-642-15396-9_36.
- [547] Andreas Schutt, Armin Wolf, and Gunnar Schrader. Not-first and not-last detection for cumulative scheduling in $O(n^3 \log n)$. In Masanobu Umeda, Armin Wolf, Oskar Bartenstein, Ulrich Geske, Dietmar Seipel, and Osamu Takata, editors, *Declarative Programming for Knowledge Management, 16th International Conference on Applications of Declarative Programming and Knowledge Management, INAP 2005, Fukuoka, Japan, October 22-24, 2005, Revised Selected Papers*, volume 4369 of *Lecture Notes in Computer Science*, pages 66–80. Springer, 2005. doi:10.1007/11963578_6.
- [548] Thiago Serra, Gilberto Nishioka, and Fernando J. M. Marcellino. The offshore resources scheduling problem: Detailing a constraint programming approach. In Michela Milano, editor, *Principles and Practice of Constraint Programming - 18th International Conference, CP 2012, Québec City, QC, Canada, October 8-12, 2012. Proceedings*, volume 7514 of *Lecture Notes in Computer Science*, pages 823–839. Springer, 2012. doi:10.1007/978-3-642-33558-7_59.
- [549] Aftab Ahmed Shaikh and Abdullah Ayub Khan. Management of electronic ledger: a constraint programming approach for solving curricula scheduling problems. *Int. J. Electron. Secur. Digit. Forensics*, 15(1):88–99, 2023. doi:10.1504/IJESDF.2023.10045616.

- [550] Paul Shaw. Using constraint programming and local search methods to solve vehicle routing problems. In Michael J. Maher and Jean-Francois Puget, editors, *Principles and Practice of Constraint Programming - CP98, 4th International Conference, Pisa, Italy, October 26-30, 1998, Proceedings*, volume 1520 of *Lecture Notes in Computer Science*, pages 417–431. Springer, 1998. doi:10.1007/3-540-49481-2_30.
- [551] Ganquan Shi, Zhouwang Yang, Yang Xu, and Yuchen Quan. Solving the integrated process planning and scheduling problem using an enhanced constraint programming-based approach. *Int. J. Prod. Res.*, 60(18):5505–5522, 2022. doi:10.1080/00207543.2021.1963496.
- [552] Seung Yeob Shin, Yuriy Brun, Hari Balasubramanian, Philip L. Henneman, and Leon J. Osterweil. Discrete-event simulation and integer linear programming for constraint-aware resource scheduling. *IEEE Trans. Syst. Man Cybern. Syst.*, 48(9):1578–1593, 2018. doi:10.1109/TSMC.2017.2681623.
- [553] Mohamed Siala. Search, propagation, and learning in sequencing and scheduling problems. *Constraints An Int. J.*, 20(4):479–480, 2015. URL: <https://doi.org/10.1007/s10601-015-9213-y>, doi:10.1007/S10601-015-9213-Y.
- [554] Mohamed Siala. *Search, propagation, and learning in sequencing and scheduling problems. (Recherche, propagation et apprentissage dans les problèmes de séquençement et d’ordonnancement)*. PhD thesis, INSA Toulouse, France, 2015. URL: <https://tel.archives-ouvertes.fr/tel-01164291>.
- [555] Mohamed Siala, Christian Artigues, and Emmanuel Hebrard. Two clause learning approaches for disjunctive scheduling. In Gilles Pesant, editor, *Principles and Practice of Constraint Programming - 21st International Conference, CP 2015, Cork, Ireland, August 31 - September 4, 2015, Proceedings*, volume 9255 of *Lecture Notes in Computer Science*, pages 393–402. Springer, 2015. doi:10.1007/978-3-319-23219-5_28.
- [556] Gilles Simonin, Christian Artigues, Emmanuel Hebrard, and Pierre Lopez. Scheduling scientific experiments on the rosetta/philae mission. In Michela Milano, editor, *Principles and Practice of Constraint Programming - 18th International Conference, CP 2012, Québec City, QC, Canada, October 8-12, 2012. Proceedings*, volume 7514 of *Lecture Notes in Computer Science*, pages 23–37. Springer, 2012. doi:10.1007/978-3-642-33558-7_5.
- [557] Gilles Simonin, Christian Artigues, Emmanuel Hebrard, and Pierre Lopez. Scheduling scientific experiments for comet exploration. *Constraints An Int. J.*, 20(1):77–99, 2015. URL: <https://doi.org/10.1007/s10601-014-9169-3>, doi:10.1007/S10601-014-9169-3.
- [558] Helmut Simonis. Application development with the CHIP system. In Gabriel M. Kuper and Mark Wallace, editors, *Constraint Databases and Applications, ESPRIT WG CONTESSA Workshop, Friedrichshafen, Germany, September 8-9, 1995, Proceedings*, volume 1034 of *Lecture Notes in Computer Science*, pages 1–21. Springer, 1995. doi:10.1007/3-540-60794-3_11.
- [559] Helmut Simonis. The CHIP system and its applications. In Ugo Montanari and Francesca Rossi, editors, *Principles and Practice of Constraint Programming - CP’95, First International Conference, CP’95, Cassis, France, September 19-22, 1995, Proceedings*, volume 976 of *Lecture Notes in Computer Science*, pages 643–646. Springer, 1995. doi:10.1007/3-540-60299-2_42.
- [560] Helmut Simonis. Building industrial applications with constraint programming. In Hubert Comon, Claude Marché, and Ralf Treinen, editors, *Constraints in Computational Logics: Theory and Applications, International Summer School, CCL’99 Gif-sur-Yvette, France, September 5-8, 1999, Revised Lectures*, volume 2002 of *Lecture Notes in Computer Science*, pages 271–309. Springer, 1999. doi:10.1007/3-540-45406-3_6.
- [561] Helmut Simonis. Models for global constraint applications. *Constraints An Int. J.*, 12(1):63–92, 2007. URL: <https://doi.org/10.1007/s10601-006-9011-7>, doi:10.1007/S10601-006-9011-7.
- [562] Helmut Simonis, Philippe Charlier, and Philip Kay. Constraint handling in an integrated transportation problem. *IEEE Intell. Syst.*, 15(1):26–32, 2000. doi:10.1109/5254.820326.

- [563] Helmut Simonis and Trijntje Cornelissens. Modelling producer/consumer constraints. In Ugo Montanari and Francesca Rossi, editors, *Principles and Practice of Constraint Programming - CP'95, First International Conference, CP'95, Cassis, France, September 19-22, 1995, Proceedings*, volume 976 of *Lecture Notes in Computer Science*, pages 449–462. Springer, 1995. doi:10.1007/3-540-60299-2_27.
- [564] Helmut Simonis and Tarik Hadzic. A resource cost aware cumulative. In *International Workshop on Constraint Solving and Constraint Logic Programming CSCP 2009*, page 76–89. Springer Berlin Heidelberg, 2011. URL: http://dx.doi.org/10.1007/978-3-642-19486-3_5, doi:10.1007/978-3-642-19486-3_5.
- [565] Francis Sourd and Wim Nuijten. Multiple-machine lower bounds for shop-scheduling problems. *INFORMS J. Comput.*, 12(4):341–352, 2000. URL: <https://doi.org/10.1287/ijoc.12.4.341.11881>, doi:10.1287/IJOC.12.4.341.11881.
- [566] Samuel Squillaci, Cédric Pralet, and Stéphanie Roussel. Scheduling complex observation requests for a constellation of satellites: Large neighborhood search approaches. In André A. Ciré, editor, *Integration of Constraint Programming, Artificial Intelligence, and Operations Research - 20th International Conference, CPAIOR 2023, Nice, France, May 29 - June 1, 2023, Proceedings*, volume 13884 of *Lecture Notes in Computer Science*, pages 443–459. Springer, 2023. doi:10.1007/978-3-031-33271-5_29.
- [567] Kemal Subulan and Gizem Çakir. Constraint programming-based transformation approach for a mixed fuzzy-stochastic resource investment project scheduling problem. *Soft Comput.*, 26(5):2523–2560, 2022. URL: <https://doi.org/10.1007/s00500-021-06399-5>, doi:10.1007/S00500-021-06399-5.
- [568] Yuan Sun, Su Nguyen, Dhananjay R. Thiruvady, Xiaodong Li, Andreas T. Ernst, and Uwe Aickelin. Enhancing constraint programming via supervised learning for job shop scheduling. *CoRR*, abs/2211.14492, 2022. URL: <https://doi.org/10.48550/arXiv.2211.14492>, arXiv:2211.14492, doi:10.48550/ARXIV.2211.14492.
- [569] Zheng Sun, Hong Li, Min Yao, and Nan Li. Scheduling optimization techniques for flexray using constraint-programming. In Peidong Zhu, Lizhe Wang, Feng Xia, HuaJun Chen, Ian McLoughlin, Shiao-Li Tsao, Mitsuhsa Sato, Sun-Ki Chai, and Irwin King, editors, *2010 IEEE/ACM Int'l Conference on Green Computing and Communications, GreenCom 2010, & Int'l Conference on Cyber, Physical and Social Computing, CPSCom 2010, Hangzhou, China, December 18-20, 2010*, pages 931–936. IEEE Computer Society, 2010. URL: <https://doi.org/10.1109/GreenCom-CPSCom.2010.111>, doi:10.1109/GREENCOM-CPSCOM.2010.111.
- [570] Suresh Sundaram, V. Mani, S. N. Omkar, and H. J. Kim. Divisible load scheduling in distributed system with buffer constraints: genetic algorithm and linear programming approach. *Int. J. Parallel Emergent Distributed Syst.*, 21(5):303–321, 2006. doi:10.1080/17445760600567842.
- [571] Jiri Svancara and Roman Barták. Tackling train routing via multi-agent pathfinding and constraint-based scheduling. In Ana Paula Rocha, Luc Steels, and H. Jaap van den Herik, editors, *Proceedings of the 14th International Conference on Agents and Artificial Intelligence, ICAART 2022, Volume 1, Online Streaming, February 3-5, 2022*, pages 306–313. SCITEPRESS, 2022. doi:10.5220/0010869700003116.
- [572] Ria Szeredi and Andreas Schutt. Modelling and solving multi-mode resource-constrained project scheduling. In Michel Rueher, editor, *Principles and Practice of Constraint Programming - 22nd International Conference, CP 2016, Toulouse, France, September 5-9, 2016, Proceedings*, volume 9892 of *Lecture Notes in Computer Science*, pages 483–492. Springer, 2016. doi:10.1007/978-3-319-44953-1_31.
- [573] Eric Taillard. Benchmarks for basic scheduling problems. *European Journal of Operational Research*, 64(2):278–285, January 1993. URL: [http://dx.doi.org/10.1016/0377-2217\(93\)90182-m](http://dx.doi.org/10.1016/0377-2217(93)90182-m), doi:10.1016/0377-2217(93)90182-m.
- [574] Yingcong Tan and Daria Terekhov. Logic-based benders decomposition for two-stage flexible flow shop scheduling with unrelated parallel machines. In *Canadian Conference on Artificial Intelligence - Canadian AI 2018*, page 60–71. Springer International Publishing, 2018. URL: http://dx.doi.org/10.1007/978-3-319-89656-4_5, doi:10.1007/978-3-319-89656-4_5.

- [575] Tanya Y. Tang and J. Christopher Beck. CP and hybrid models for two-stage batching and scheduling. In Emmanuel Hebrard and Nysret Musliu, editors, *Integration of Constraint Programming, Artificial Intelligence, and Operations Research - 17th International Conference, CPAIOR 2020, Vienna, Austria, September 21-24, 2020, Proceedings*, volume 12296 of *Lecture Notes in Computer Science*, pages 431–446. Springer, 2020. doi:10.1007/978-3-030-58942-4_28.
- [576] Yuanjie Tang, Rengkui Liu, Futian Wang, Quanxin Sun, and Amr A. Kandil. Scheduling optimization of linear schedule with constraint programming. *Comput. Aided Civ. Infrastructure Eng.*, 33(2):124–151, 2018. URL: <https://doi.org/10.1111/mice.12277>, doi:10.1111/MICE.12277.
- [577] Fabio Tardivo, Agostino Dovier, Andrea Formisano, Laurent Michel, and Enrico Pontelli. Constraint propagation on GPU: A case study for the cumulative constraint. In André A. Ciré, editor, *Integration of Constraint Programming, Artificial Intelligence, and Operations Research - 20th International Conference, CPAIOR 2023, Nice, France, May 29 - June 1, 2023, Proceedings*, volume 13884 of *Lecture Notes in Computer Science*, pages 336–353. Springer, 2023. doi:10.1007/978-3-031-33271-5_22.
- [578] Pierre Tassel, Martin Gebser, and Konstantin Schekotihin. An end-to-end reinforcement learning approach for job-shop scheduling problems based on constraint programming. In Sven Koenig, Roni Stern, and Mauro Vallati, editors, *Proceedings of the Thirty-Third International Conference on Automated Planning and Scheduling, July 8-13, 2023, Prague, Czech Republic*, pages 614–622. AAAI Press, 2023. URL: <https://doi.org/10.1609/icaps.v33i1.27243>, doi:10.1609/ICAPS.V33I1.27243.
- [579] Pierre Tassel, Martin Gebser, and Konstantin Schekotihin. An end-to-end reinforcement learning approach for job-shop scheduling problems based on constraint programming. *CoRR*, abs/2306.05747, 2023. URL: <https://doi.org/10.48550/arXiv.2306.05747>, arXiv:2306.05747, doi:10.48550/ARXIV.2306.05747.
- [580] David B. H. Tay. COPS: A constraint programming approach to resource-limited project scheduling. *Comput. J.*, 35(Additional-Papers):A237–A249, 1992.
- [581] Erich Christian Teppan. Types of flexible job shop scheduling: A constraint programming experiment. In Ana Paula Rocha, Luc Steels, and H. Jaap van den Herik, editors, *Proceedings of the 14th International Conference on Agents and Artificial Intelligence, ICAART 2022, Volume 3, Online Streaming, February 3-5, 2022*, pages 516–523. SCITEPRESS, 2022. doi:10.5220/0010849900003116.
- [582] Daria Terekhov, Mustafa K. Dogru, Ulas Özen, and J. Christopher Beck. Solving two-machine assembly scheduling problems with inventory constraints. *Comput. Ind. Eng.*, 63(1):120–134, 2012. URL: <https://doi.org/10.1016/j.cie.2012.02.006>, doi:10.1016/J.CIE.2012.02.006.
- [583] Daria Terekhov, Tony T. Tran, Douglas G. Down, and J. Christopher Beck. Integrating queueing theory and scheduling for dynamic scheduling problems. *J. Artif. Intell. Res.*, 50:535–572, 2014. URL: <https://doi.org/10.1613/jair.4278>, doi:10.1613/JAIR.4278.
- [584] Alexander Tesch. A nearly exact propagation algorithm for energetic reasoning in $\mathcal{O}(n^2 \log n)$. In Michel Rueher, editor, *Principles and Practice of Constraint Programming - 22nd International Conference, CP 2016, Toulouse, France, September 5-9, 2016, Proceedings*, volume 9892 of *Lecture Notes in Computer Science*, pages 493–519. Springer, 2016. doi:10.1007/978-3-319-44953-1_32.
- [585] Alexander Tesch. Improving energetic propagations for cumulative scheduling. In John N. Hooker, editor, *Principles and Practice of Constraint Programming - 24th International Conference, CP 2018, Lille, France, August 27-31, 2018, Proceedings*, volume 11008 of *Lecture Notes in Computer Science*, pages 629–645. Springer, 2018. doi:10.1007/978-3-319-98334-9_41.
- [586] Dhananjay R. Thiruvady, Christian Blum, Bernd Meyer, and Andreas T. Ernst. Hybridizing beam-aco with constraint programming for single machine job scheduling. In Maria J. Blesa, Christian Blum, Luca Di Gaspero, Andrea Roli, Michael Sampels, and Andrea Schaerf, editors, *Hybrid Metaheuristics, 6th International Workshop, HM 2009, Udine, Italy, October 16-17, 2009. Proceedings*, volume 5818 of *Lecture Notes in Computer Science*, pages 30–44. Springer, 2009. doi:10.1007/978-3-642-04918-7_3.

- [587] Dhananjay R. Thiruvady, Mark Wallace, Hanyu Gu, and Andreas Schutt. A lagrangian relaxation and ACO hybrid for resource constrained project scheduling with discounted cash flows. *J. Heuristics*, 20(6):643–676, 2014. URL: <https://doi.org/10.1007/s10732-014-9260-3>, doi:10.1007/S10732-014-9260-3.
- [588] Charles Thomas, Roger Kameugne, and Pierre Schaus. Insertion sequence variables for hybrid routing and scheduling problems. In Emmanuel Hebrard and Nysret Musliu, editors, *Integration of Constraint Programming, Artificial Intelligence, and Operations Research - 17th International Conference, CPAIOR 2020, Vienna, Austria, September 21-24, 2020, Proceedings*, volume 12296 of *Lecture Notes in Computer Science*, pages 457–474. Springer, 2020. doi:10.1007/978-3-030-58942-4_30.
- [589] Erlendur S. Thorsteinsson. Branch-and-check: A hybrid framework integrating mixed integer programming and constraint logic programming. In Toby Walsh, editor, *Principles and Practice of Constraint Programming - CP 2001, 7th International Conference, CP 2001, Paphos, Cyprus, November 26 - December 1, 2001, Proceedings*, volume 2239 of *Lecture Notes in Computer Science*, pages 16–30. Springer, 2001. doi:10.1007/3-540-45578-7_2.
- [590] Christian Timpe. Solving planning and scheduling problems with combined integer and constraint programming. *OR Spectr.*, 24(4):431–448, 2002. URL: <https://doi.org/10.1007/s00291-002-0107-1>, doi:10.1007/S00291-002-0107-1.
- [591] Mary Tom. Fuzzy multi-constraint programming model for weekly meals scheduling. In *2019 IEEE International Conference on Fuzzy Systems, FUZZ-IEEE 2019, New Orleans, LA, USA, June 23-26, 2019*, pages 1–6. IEEE, 2019. doi:10.1109/FUZZ-IEEE.2019.8859029.
- [592] Seyda Topaloglu and Irem Ozkarahan. A constraint programming-based solution approach for medical resident scheduling problems. *Comput. Oper. Res.*, 38(1):246–255, 2011. URL: <https://doi.org/10.1016/j.cor.2010.04.018>, doi:10.1016/J.COR.2010.04.018.
- [593] Philippe Torres and Pierre Lopez. On not-first/not-last conditions in disjunctive scheduling. *European Journal of Operational Research*, 127(2):332–343, December 2000. URL: [http://dx.doi.org/10.1016/s0377-2217\(99\)00497-x](http://dx.doi.org/10.1016/s0377-2217(99)00497-x), doi:10.1016/s0377-2217(99)00497-x.
- [594] Meriem Touat, Belaid Benhamou, and Fatima Benbouzid-Si Tayeb. A constraint programming model for the scheduling problem with flexible maintenance under human resource constraints. In Ana Paula Rocha, Luc Steels, and H. Jaap van den Herik, editors, *Proceedings of the 14th International Conference on Agents and Artificial Intelligence, ICAART 2022, Volume 3, Online Streaming, February 3-5, 2022*, pages 195–202. SCITEPRESS, 2022.
- [595] Touraïvane. Constraint programming and industrial applications. In Ugo Montanari and Francesca Rossi, editors, *Principles and Practice of Constraint Programming - CP'95, First International Conference, CP'95, Cassis, France, September 19-22, 1995, Proceedings*, volume 976 of *Lecture Notes in Computer Science*, pages 640–642. Springer, 1995. doi:10.1007/3-540-60299-2_41.
- [596] Tony T. Tran, Arthur Araujo, and J. Christopher Beck. Decomposition methods for the parallel machine scheduling problem with setups. *INFORMS J. Comput.*, 28(1):83–95, 2016. URL: <https://doi.org/10.1287/ijoc.2015.0666>, doi:10.1287/IJOC.2015.0666.
- [597] Tony T. Tran and J. Christopher Beck. Logic-based benders decomposition for alternative resource scheduling with sequence dependent setups. In Luc De Raedt, Christian Bessiere, Didier Dubois, Patrick Doherty, Paolo Frasconi, Fredrik Heintz, and Peter J. F. Lucas, editors, *ECAI 2012 - 20th European Conference on Artificial Intelligence. Including Prestigious Applications of Artificial Intelligence (PAIS-2012) System Demonstrations Track, Montpellier, France, August 27-31, 2012*, volume 242 of *Frontiers in Artificial Intelligence and Applications*, pages 774–779. IOS Press, 2012. doi:10.3233/978-1-61499-098-7-774.
- [598] Tony T. Tran, Minh Do, Eleanor Gilbert Rieffel, Jeremy Frank, Zhihui Wang, Bryan O’Gorman, Davide Venturelli, and J. Christopher Beck. A hybrid quantum-classical approach to solving scheduling problems. In Jorge A. Baier and Adi Botea, editors, *Proceedings of the Ninth Annual Symposium on Combinatorial Search, SOCS 2016, Tarrytown, NY, USA, July 6-8, 2016*, pages 98–106. AAAI Press, 2016. URL: <https://doi.org/10.1609/socs.v7i1.18390>, doi:10.1609/SOCS.V7I1.18390.

- [599] Tony T. Tran, Meghana Padmanabhan, Peter Yun Zhang, Heyse Li, Douglas G. Down, and J. Christopher Beck. Multi-stage resource-aware scheduling for data centers with heterogeneous servers. *J. Sched.*, 21(2):251–267, 2018. URL: <https://doi.org/10.1007/s10951-017-0537-x>, doi:10.1007/S10951-017-0537-X.
- [600] Tony T. Tran, Daria Terekhov, Douglas G. Down, and J. Christopher Beck. Hybrid queueing theory and scheduling models for dynamic environments with sequence-dependent setup times. In Daniel Borrajo, Subbarao Kambhampati, Angelo Oddi, and Simone Fratini, editors, *Proceedings of the Twenty-Third International Conference on Automated Planning and Scheduling, ICAPS 2013, Rome, Italy, June 10-14, 2013*. AAAI, 2013. URL: <http://www.aaai.org/ocs/index.php/ICAPS/ICAPS13/paper/view/6005>.
- [601] Tony T. Tran, Tiago Stegun Vaquero, Goldie Nejat, and J. Christopher Beck. Robots in retirement homes: Applying off-the-shelf planning and scheduling to a team of assistive robots. *J. Artif. Intell. Res.*, 58:523–590, 2017. URL: <https://doi.org/10.1613/jair.5306>, doi:10.1613/JAIR.5306.
- [602] Tony T. Tran, Tiago Stegun Vaquero, Goldie Nejat, and J. Christopher Beck. Robots in retirement homes: Applying off-the-shelf planning and scheduling to a team of assistive robots (extended abstract). In Carles Sierra, editor, *Proceedings of the Twenty-Sixth International Joint Conference on Artificial Intelligence, IJCAI 2017, Melbourne, Australia, August 19-25, 2017*, pages 5080–5084. ijcai.org, 2017. URL: <https://doi.org/10.24963/ijcai.2017/726>, doi:10.24963/IJCAI.2017/726.
- [603] Tony T. Tran, Zhihui Wang, Minh Do, Eleanor Gilbert Rieffel, Jeremy Frank, Bryan O’Gorman, Davide Venturelli, and J. Christopher Beck. Explorations of quantum-classical approaches to scheduling a mars lander activity problem. In Daniele Magazzeni, Scott Sanner, and Sylvie Thiébaux, editors, *Planning for Hybrid Systems, Papers from the 2016 AAAI Workshop, Phoenix, Arizona, USA, February 13, 2016*, volume WS-16-12 of *AAAI Technical Report*. AAAI Press, 2016. URL: <http://www.aaai.org/ocs/index.php/WS/AAAIW16/paper/view/12664>.
- [604] Mariem Trojet, Fehmi H’Mida, and Pierre Lopez. Project scheduling under resource constraints: Application of the cumulative global constraint in a decision support framework. *Comput. Ind. Eng.*, 61(2):357–363, 2011. URL: <https://doi.org/10.1016/j.cie.2010.08.014>, doi:10.1016/J.CIE.2010.08.014.
- [605] Edward P. K. Tsang. Constraint based scheduling: Applying constraint programming to scheduling problems. *J. Sched.*, 6(4):413–414, 2003. doi:10.1023/A:1024016929283.
- [606] Behdin Vahedi-Nouri, Reza Tavakkoli-Moghaddam, Zdeněk Hanzálek, and Alexandre Dolgui. Production scheduling in a reconfigurable manufacturing system benefiting from human-robot collaboration. *International Journal of Production Research*, 62(3):767–783, February 2023. URL: <http://dx.doi.org/10.1080/00207543.2023.2173503>, doi:10.1080/00207543.2023.2173503.
- [607] Carmelo Del Valle, Antonio A. Márquez, Rafael M. Gasca, and Miguel Toro. On selecting and scheduling assembly plans using constraint programming. In Vasile Palade, Robert J. Howlett, and Lakhmi C. Jain, editors, *Knowledge-Based Intelligent Information and Engineering Systems, 7th International Conference, KES 2003, Oxford, UK, September 3-5, 2003, Proceedings, Part II*, volume 2774 of *Lecture Notes in Computer Science*, pages 1329–1336. Springer, 2003. doi:10.1007/978-3-540-45226-3_180.
- [608] J. M. van den Akker, Guido Diepen, and J. A. Hoogeveen. A column generation based destructive lower bound for resource constrained project scheduling problems. In Pascal Van Hentenryck and Laurence A. Wolsey, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, 4th International Conference, CPAIOR 2007, Brussels, Belgium, May 23-26, 2007, Proceedings*, volume 4510 of *Lecture Notes in Computer Science*, pages 376–390. Springer, 2007. doi:10.1007/978-3-540-72397-4_27.
- [609] Pim van den Bogaerdt and Mathijs de Weerd. Lower bounds for uniform machine scheduling using decision diagrams. In Louis-Martin Rousseau and Kostas Stergiou, editors, *Integration of Constraint Programming, Artificial Intelligence, and Operations Research - 16th International Conference, CPAIOR 2019, Thessaloniki, Greece, June 4-7, 2019, Proceedings*, volume 11494 of *Lecture Notes in Computer Science*, pages 565–580. Springer, 2019. doi:10.1007/978-3-030-19212-9_38.

- [610] Roman van der Krogt, James Little, Kenneth Pulliam, Sue Hanhilmami, and Yue Jin. Scheduling for cellular manufacturing. In Christian Bessiere, editor, *Principles and Practice of Constraint Programming - CP 2007, 13th International Conference, CP 2007, Providence, RI, USA, September 23-27, 2007, Proceedings*, volume 4741 of *Lecture Notes in Computer Science*, pages 105–117. Springer, 2007. doi:10.1007/978-3-540-74970-7_10.
- [611] Willem-Jan van Hoeve, Carla P. Gomes, Bart Selman, and Michele Lombardi. Optimal multi-agent scheduling with constraint programming. In *Proceedings of the Twenty-Second AAAI Conference on Artificial Intelligence, July 22-26, 2007, Vancouver, British Columbia, Canada*, pages 1813–1818. AAAI Press, 2007. URL: <http://www.aaai.org/Library/AAAI/2007/aaai07-291.php>.
- [612] József Váncza and András Márkus. A constraint engine for manufacturing process planning. In Toby Walsh, editor, *Principles and Practice of Constraint Programming - CP 2001, 7th International Conference, CP 2001, Paphos, Cyprus, November 26 - December 1, 2001, Proceedings*, volume 2239 of *Lecture Notes in Computer Science*, pages 745–759. Springer, 2001. doi:10.1007/3-540-45578-7_60.
- [613] Gérard Verfaillie and Michel Lemaître. Selecting and scheduling observations for agile satellites: Some lessons from the constraint reasoning community point of view. In Toby Walsh, editor, *Principles and Practice of Constraint Programming - CP 2001, 7th International Conference, CP 2001, Paphos, Cyprus, November 26 - December 1, 2001, Proceedings*, volume 2239 of *Lecture Notes in Computer Science*, pages 670–684. Springer, 2001. doi:10.1007/3-540-45578-7_55.
- [614] Petr Vilím. Batch processing with sequence dependent setup times. In Pascal Van Hentenryck, editor, *Principles and Practice of Constraint Programming - CP 2002, 8th International Conference, CP 2002, Ithaca, NY, USA, September 9-13, 2002, Proceedings*, volume 2470 of *Lecture Notes in Computer Science*, page 764. Springer, 2002. doi:10.1007/3-540-46135-3_62.
- [615] Petr Vilím. Computing explanations for global scheduling constraints. In Francesca Rossi, editor, *Principles and Practice of Constraint Programming - CP 2003, 9th International Conference, CP 2003, Kinsale, Ireland, September 29 - October 3, 2003, Proceedings*, volume 2833 of *Lecture Notes in Computer Science*, page 1000. Springer, 2003. doi:10.1007/978-3-540-45193-8_124.
- [616] Petr Vilím. $O(n \log n)$ filtering algorithms for unary resource constraint. In Jean-Charles Régin and Michel Rueher, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, First International Conference, CPAIOR 2004, Nice, France, April 20-22, 2004, Proceedings*, volume 3011 of *Lecture Notes in Computer Science*, pages 335–347. Springer, 2004. doi:10.1007/978-3-540-24664-0_23.
- [617] Petr Vilím. Computing explanations for the unary resource constraint. In Roman Barták and Michela Milano, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, Second International Conference, CPAIOR 2005, Prague, Czech Republic, May 30 - June 1, 2005, Proceedings*, volume 3524 of *Lecture Notes in Computer Science*, pages 396–409. Springer, 2005. doi:10.1007/11493853_29.
- [618] Petr Vilím. Edge finding filtering algorithm for discrete cumulative resources in $O(kn \log n) \mathcal{O}(kn \log n)$. In Ian P. Gent, editor, *Principles and Practice of Constraint Programming - CP 2009, 15th International Conference, CP 2009, Lisbon, Portugal, September 20-24, 2009, Proceedings*, volume 5732 of *Lecture Notes in Computer Science*, pages 802–816. Springer, 2009. doi:10.1007/978-3-642-04244-7_62.
- [619] Petr Vilím. Max energy filtering algorithm for discrete cumulative resources. In Willem Jan van Hoeve and John N. Hooker, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, 6th International Conference, CPAIOR 2009, Pittsburgh, PA, USA, May 27-31, 2009, Proceedings*, volume 5547 of *Lecture Notes in Computer Science*, pages 294–308. Springer, 2009. doi:10.1007/978-3-642-01929-6_22.
- [620] Petr Vilím. Timetable edge finding filtering algorithm for discrete cumulative resources. In Tobias Achterberg and J. Christopher Beck, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems - 8th International Conference, CPAIOR 2011, Berlin, Germany, May 23-27, 2011. Proceedings*, volume 6697 of *Lecture Notes in Computer Science*, pages 230–245. Springer, 2011. doi:10.1007/978-3-642-21311-3_22.

- [621] Petr Vilím, Roman Barták, and Ondrej Cepek. Unary resource constraint with optional activities. In Mark Wallace, editor, *Principles and Practice of Constraint Programming - CP 2004, 10th International Conference, CP 2004, Toronto, Canada, September 27 - October 1, 2004, Proceedings*, volume 3258 of *Lecture Notes in Computer Science*, pages 62–76. Springer, 2004. doi:10.1007/978-3-540-30201-8_8.
- [622] Petr Vilím, Roman Barták, and Ondrej Cepek. Extension of $O(n \log n)$ filtering algorithms for the unary resource constraint to optional activities. *Constraints An Int. J.*, 10(4):403–425, 2005. URL: <https://doi.org/10.1007/s10601-005-2814-0>, doi:10.1007/S10601-005-2814-0.
- [623] Petr Vilím, Philippe Laborie, and Paul Shaw. Failure-directed search for constraint-based scheduling. In Laurent Michel, editor, *Integration of AI and OR Techniques in Constraint Programming - 12th International Conference, CPAIOR 2015, Barcelona, Spain, May 18-22, 2015, Proceedings*, volume 9075 of *Lecture Notes in Computer Science*, pages 437–453. Springer, 2015. doi:10.1007/978-3-319-18008-3_30.
- [624] Karen Villaverde and Enrico Pontelli. An investigation of scheduling in distributed constraint logic programming. In David A. Bader and Ashfaq A. Khokhar, editors, *Proceedings of the ISCA 17th International Conference on Parallel and Distributed Computing Systems, September 15-17, 2004, The Canterbury Hotel, San Francisco, California, USA*, pages 98–103. ISCA, 2004.
- [625] Marek Vlk, Zdenek Hanzálek, and Siyu Tang. Constraint programming approaches to joint routing and scheduling in time-sensitive networks. *Comput. Ind. Eng.*, 157:107317, 2021. URL: <https://doi.org/10.1016/j.cie.2021.107317>, doi:10.1016/J.CIE.2021.107317.
- [626] Mark Wallace. Applying constraints for scheduling. In Brian Mayoh, Enn Tyugu, and Jaan Penjam, editors, *Constraint Programming*, pages 153–171, Berlin, Heidelberg, 1994. Springer Berlin Heidelberg.
- [627] Mark Wallace. Practical applications of constraint programming. *Constraints An Int. J.*, 1(1/2):139–168, 1996. doi:10.1007/BF00143881.
- [628] Mark Wallace. Hybrid algorithms in constraint programming. In *International Workshop on Constraint Solving and Constraint Logic Programming CSCLP 2006*, page 1–32. Springer Berlin Heidelberg, 2006. URL: http://dx.doi.org/10.1007/978-3-540-73817-6_1, doi:10.1007/978-3-540-73817-6_1.
- [629] Mark Wallace and Neil Yorke-Smith. A new constraint programming model and solving for the cyclic hoist scheduling problem. *Constraints An Int. J.*, 25(3-4):319–337, 2020. URL: <https://doi.org/10.1007/s10601-020-09316-z>, doi:10.1007/S10601-020-09316-Z.
- [630] Ruixin Wang and Nicolas Barnier. Global propagation of transition cost for fixed job scheduling. In Giuseppe De Giacomo, Alejandro Catalá, Bistra Dilkina, Michela Milano, Senén Barro, Alberto Bugarín, and Jérôme Lang, editors, *ECAI 2020 - 24th European Conference on Artificial Intelligence, 29 August-8 September 2020, Santiago de Compostela, Spain, August 29 - September 8, 2020 - Including 10th Conference on Prestigious Applications of Artificial Intelligence (PAIS 2020)*, volume 325 of *Frontiers in Artificial Intelligence and Applications*, pages 363–370. IOS Press, 2020. doi:10.3233/FAIA200114.
- [631] Ruixin Wang and Nicolas Barnier. Dynamic all-different and maximal cliques constraints for fixed job scheduling. In *35th IEEE International Conference on Tools with Artificial Intelligence, ICTAI 2023, Atlanta, GA, USA, November 6-8, 2023*, pages 385–392. IEEE, 2023. doi:10.1109/ICTAI59109.2023.00062.
- [632] Tao Wang, Nadine Meskens, and David Duvivier. Scheduling operating theatres: Mixed integer programming vs. constraint programming. *Eur. J. Oper. Res.*, 247(2):401–413, 2015. URL: <https://doi.org/10.1016/j.ejor.2015.06.008>, doi:10.1016/J.EJOR.2015.06.008.
- [633] Ezra Wari and Weihang Zhu. A constraint programming model for food processing industry: a case for an ice cream processing facility. *International Journal of Production Research*, 57(21):6648–6664, February 2019. URL: <http://dx.doi.org/10.1080/00207543.2019.1571250>, doi:10.1080/00207543.2019.1571250.

- [634] Jean-Paul Watson and J. Christopher Beck. A hybrid constraint programming / local search approach to the job-shop scheduling problem. In Laurent Perron and Michael A. Trick, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, 5th International Conference, CPAIOR 2008, Paris, France, May 20-23, 2008, Proceedings*, volume 5015 of *Lecture Notes in Computer Science*, pages 263–277. Springer, 2008. doi:10.1007/978-3-540-68155-7_21.
- [635] Johan Wessén, Mats Carlsson, and Christian Schulte. Scheduling of dual-arm multi-tool assembly robots and workspace layout optimization. In Emmanuel Hebrard and Nysret Musliu, editors, *Integration of Constraint Programming, Artificial Intelligence, and Operations Research - 17th International Conference, CPAIOR 2020, Vienna, Austria, September 21-24, 2020, Proceedings*, volume 12296 of *Lecture Notes in Computer Science*, pages 511–520. Springer, 2020. doi:10.1007/978-3-030-58942-4_33.
- [636] Jaroslaw Wikarek and Pawel Sitek. A constraint-based declarative programming framework for scheduling and resource allocation problems. *Vietnam. J. Comput. Sci.*, 6(1):69–90, 2019. doi:10.1142/S2196888819500027.
- [637] Felix Winter, Sebastian Meiswinkel, Nysret Musliu, and Daniel Walkiewicz. Modeling and solving parallel machine scheduling with contamination constraints in the agricultural industry. In Christine Solnon, editor, *28th International Conference on Principles and Practice of Constraint Programming, CP 2022, July 31 to August 8, 2022, Haifa, Israel*, volume 235 of *LIPICs*, pages 41:1–41:18. Schloss Dagstuhl - Leibniz-Zentrum für Informatik, 2022. URL: <https://doi.org/10.4230/LIPICs.CP.2022.41>, doi:10.4230/LIPICs.CP.2022.41.
- [638] Armin Wolf. Pruning while sweeping over task intervals. In Francesca Rossi, editor, *Principles and Practice of Constraint Programming - CP 2003, 9th International Conference, CP 2003, Kinsale, Ireland, September 29 - October 3, 2003, Proceedings*, volume 2833 of *Lecture Notes in Computer Science*, pages 739–753. Springer, 2003. doi:10.1007/978-3-540-45193-8_50.
- [639] Armin Wolf. Better propagation for non-preemptive single-resource constraint problems. In *International Workshop on Constraint Solving and Constraint Logic Programming CSCLP 2004*, page 201–215. Springer Berlin Heidelberg, 2005. URL: http://dx.doi.org/10.1007/11402763_15, doi:10.1007/11402763_15.
- [640] Armin Wolf. Constraint-based modeling and scheduling of clinical pathways. In *International Workshop on Constraint Solving and Constraint Logic Programming CSCLP 2009*, page 122–138. Springer Berlin Heidelberg, 2011. URL: http://dx.doi.org/10.1007/978-3-642-19486-3_8, doi:10.1007/978-3-642-19486-3_8.
- [641] Armin Wolf and Gunnar Schrader. $O(n \log n)$ overload checking for the cumulative constraint and its application. In Masanobu Umeda, Armin Wolf, Oskar Bartenstein, Ulrich Geske, Dietmar Seipel, and Osamu Takata, editors, *Declarative Programming for Knowledge Management, 16th International Conference on Applications of Declarative Programming and Knowledge Management, INAP 2005, Fukuoka, Japan, October 22-24, 2005, Revised Selected Papers*, volume 4369 of *Lecture Notes in Computer Science*, pages 88–101. Springer, 2005. doi:10.1007/11963578_8.
- [642] Armin Wolf and Gunnar Schrader. Linear weighted-task-sum – scheduling prioritized tasks on a single resource. In *International Conference on Applications of Declarative Programming and Knowledge Management INAP 2007*, page 21–37. Springer Berlin Heidelberg, 2009. URL: http://dx.doi.org/10.1007/978-3-642-00675-3_2, doi:10.1007/978-3-642-00675-3_2.
- [643] Christophe Wolinski, Krzysztof Kuchcinski, and Maya B. Gokhale. A constraints programming approach to communication scheduling on socp architectures. In *2004 Euromicro Symposium on Digital Systems Design (DSD 2004), Architectures, Methods and Tools, 31 August - 3 September 2004, Rennes, France*, pages 308–315. IEEE Computer Society, 2004. doi:10.1109/DSD.2004.1333291.
- [644] Christine Wei Wu, Kenneth N. Brown, and J. Christopher Beck. Scheduling with uncertain start dates. In Peter van Beek, editor, *Principles and Practice of Constraint Programming - CP 2005, 11th International Conference, CP 2005, Sitges, Spain, October 1-5, 2005, Proceedings*, volume 3709 of *Lecture Notes in Computer Science*, page 872. Springer, 2005. doi:10.1007/11564751_110.

- [645] Christine Wei Wu, Kenneth N. Brown, and J. Christopher Beck. Scheduling with uncertain durations: Modeling beta-robust scheduling with constraints. *Comput. Oper. Res.*, 36(8):2348–2356, 2009. URL: <https://doi.org/10.1016/j.cor.2008.08.008>, doi:10.1016/J.COR.2008.08.008.
- [646] Moli Yang, Andreas Schutt, and Peter J. Stuckey. Time table edge finding with energy variables. In Louis-Martin Rousseau and Kostas Stergiou, editors, *Integration of Constraint Programming, Artificial Intelligence, and Operations Research - 16th International Conference, CPAIOR 2019, Thessaloniki, Greece, June 4-7, 2019, Proceedings*, volume 11494 of *Lecture Notes in Computer Science*, pages 633–642. Springer, 2019. doi:10.1007/978-3-030-19212-9_42.
- [647] Maryam Younespour, Arezoo Atighehchian, Kamran Kianfar, and Ehsan Tarkesh Esfahani. Using mixed integer programming and constraint programming for operating rooms scheduling with modified block strategy. *Operations research for health care*, 23:100220, 2019. URL: <https://api.semanticscholar.org/CorpusID:208103305>.
- [648] Kenneth D. Young, Thibaut Feydy, and Andreas Schutt. Constraint programming applied to the multi-skill project scheduling problem. In J. Christopher Beck, editor, *Principles and Practice of Constraint Programming - 23rd International Conference, CP 2017, Melbourne, VIC, Australia, August 28 - September 1, 2017, Proceedings*, volume 10416 of *Lecture Notes in Computer Science*, pages 308–317. Springer, 2017. doi:10.1007/978-3-319-66158-2_20.
- [649] Tallys Yunes, Ionuț D. Aron, and John N. Hooker. An integrated solver for optimization problems. *Operations Research*, 58(2):342–356, April 2010. URL: <http://dx.doi.org/10.1287/opre.1090.0733>, doi:10.1287/opre.1090.0733.
- [650] Pinar Yunusoglu and Seyda Topaloglu Yildiz. Constraint programming approach for multi-resource-constrained unrelated parallel machine scheduling problem with sequence-dependent setup times. *Int. J. Prod. Res.*, 60(7):2212–2229, 2022. doi:10.1080/00207543.2021.1885068.
- [651] Francisco Yuraszeck, Gonzalo Mejía, and Dario Canut-de-Bon. A competitive constraint programming approach for the group shop scheduling problem. In Elhadi M. Shakshuki and Ansar-Ul-Haque Yasar, editors, *The 14th International Conference on Ambient Systems, Networks and Technologies (ANT 2023) / The 6th International Conference on Emerging Data and Industry 4.0 (EDI40 2023) / Affiliated Workshops, March 15-17, 2023, Leuven, Belgium*, volume 220 of *Procedia Computer Science*, pages 946–951. Elsevier, 2023. URL: <https://doi.org/10.1016/j.procs.2023.03.130>, doi:10.1016/J.PROCS.2023.03.130.
- [652] Francisco Yuraszeck, Gonzalo Mejía, Jordi Pereira, and Mariona Vilà. A novel constraint programming decomposition approach for the total flow time fixed group shop scheduling problem. *Mathematics*, 10(3):329, January 2022. URL: <http://dx.doi.org/10.3390/math10030329>, doi:10.3390/math10030329.
- [653] Francisco Yuraszeck, Elizabeth Montero, Dario Canut-de-Bon, Nicolás Cuneo, and Maximiliano Rojel. A constraint programming formulation of the multi-mode resource-constrained project scheduling problem for the flexible job shop scheduling problem. *IEEE Access*, 11:144928–144938, 2023. doi:10.1109/ACCESS.2023.3345793.
- [654] Boukhalfa Zahout. *Algorithmes exacts et approchés pour l’ordonnancement des travaux multiressources à intervalles fixes dans des systèmes distribués : approche monocritère et multiagent*. Theses, Université de Tours - LIFAT, June 2021. URL: <https://hal.science/tel-03606639>.
- [655] M. H. Fazel Zarandi, H. Khorshidian, and Mohsen Akbarpour Shirazi. A constraint programming model for the scheduling of JIT cross-docking systems with preemption. *J. Intell. Manuf.*, 27(2):297–313, 2016. URL: <https://doi.org/10.1007/s10845-013-0860-9>, doi:10.1007/S10845-013-0860-9.
- [656] Mohammad Hossein Fazel Zarandi, Ali Akbar Sadat Asl, Shahabeddin Sotudian, and Oscar Castillo. A state of the art review of intelligent scheduling. *Artif. Intell. Rev.*, 53(1):501–593, 2020. URL: <https://doi.org/10.1007/s10462-018-9667-6>, doi:10.1007/S10462-018-9667-6.
- [657] Luis Zeballos and Gabriela P. Henning. A constraint programming approach to FMS scheduling. consideration of storage and transportation resources. *Inteligencia Artif.*, 9(26):39–48, 2005. URL: <http://journal.iberamia.org/index.php/ia/article/view/452/article%20%281%29.pdf>.

- [658] Luis Zeballos, Oscar Quiroga, and Gabriela P. Henning. A constraint programming model for the scheduling of flexible manufacturing systems with machine and tool limitations. *Eng. Appl. Artif. Intell.*, 23(2):229–248, 2010. URL: <https://doi.org/10.1016/j.engappai.2009.07.002>, doi:10.1016/J.ENGAPPAI.2009.07.002.
- [659] Haotian Zhang, Yingjun Ji, Ziyang Zhao, and Shixin Liu. Constraint programming for modeling and solving a hybrid flow shop scheduling problem. In *IEEE International Conference on Networking, Sensing and Control, ICNSC 2022, Shanghai, China, December 15-18, 2022*, pages 1–6. IEEE, 2022. doi:10.1109/ICNSC55942.2022.10004154.
- [660] Jiachen Zhang, Giovanni Lo Bianco, and J. Christopher Beck. Solving job-shop scheduling problems with qubo-based specialized hardware. In Akshat Kumar, Sylvie Thiébaux, Pradeep Varakantham, and William Yeoh, editors, *Proceedings of the Thirty-Second International Conference on Automated Planning and Scheduling, ICAPS 2022, Singapore (virtual), June 13-24, 2022*, pages 404–412. AAAI Press, 2022. URL: <https://ojs.aaai.org/index.php/ICAPS/article/view/19826>.
- [661] Luping Zhang, Chunxia Yu, and T. N. Wong. A graph-based constraint programming approach for the integrated process planning and scheduling problem. *Comput. Oper. Res.*, 131:105282, 2021. URL: <https://doi.org/10.1016/j.cor.2021.105282>, doi:10.1016/J.COR.2021.105282.
- [662] Sicheng Zhang and Shouyang Wang. Flexible assembly job-shop scheduling with sequence-dependent setup times and part sharing in a dynamic environment: Constraint programming model, mixed-integer programming model, and dispatching rules. *IEEE Trans. Engineering Management*, 65(3):487–504, 2018. doi:10.1109/TEM.2017.2785774.
- [663] Xujun Zhang, Zhimin Lv, and Xiaoqing Song. Model and solution for hot strip rolling scheduling problem based on constraint programming method. In *12th IEEE International Conference on Computer and Information Technology, CIT 2012, Chengdu, Sichuan, China, October 27-29, 2012*, pages 412–415. IEEE Computer Society, 2012. doi:10.1109/CIT.2012.96.
- [664] Jianyang Zhou. A constraint program for solving the job-shop problem. In Eugene C. Freuder, editor, *Proceedings of the Second International Conference on Principles and Practice of Constraint Programming, Cambridge, Massachusetts, USA, August 19-22, 1996*, volume 1118 of *Lecture Notes in Computer Science*, pages 510–524. Springer, 1996. doi:10.1007/3-540-61551-2_97.
- [665] Jianyang Zhou. A permutation-based approach for solving the job-shop problem. *Constraints An Int. J.*, 2(2):185–213, 1997. doi:10.1023/A:1009757726572.
- [666] Jinlian Zhou, Ying Guo, and Guipeng Li. On complex hybrid flexible flowshop scheduling problems based on constraint programming. In *12th International Conference on Fuzzy Systems and Knowledge Discovery, FSKD 2015, Zhangjiajie, China, August 15-17, 2015*, pages 909–913. IEEE, 2015. doi:10.1109/FSKD.2015.7382064.
- [667] Kenny Qili Zhu and Andrew E. Santosa. A meeting scheduling system based on open constraint programming. In Anne Banks Pidduck, John Mylopoulos, Carson C. Woo, and M. Tamer Özsu, editors, *Advanced Information Systems Engineering, 14th International Conference, CAiSE 2002, Toronto, Canada, May 27-31, 2002, Proceedings*, volume 2348 of *Lecture Notes in Computer Science*, pages 792–796. Springer, 2002. doi:10.1007/3-540-47961-9_69.
- [668] Xuedong Zhu, Junbo Son, Xi Zhang, and Jianguo Wu. Constraint programming and logic-based benders decomposition for the integrated process planning and scheduling problem. *Omega*, 117:102823, June 2023. URL: <http://dx.doi.org/10.1016/j.omega.2022.102823>, doi:10.1016/j.omega.2022.102823.
- [669] Minhaz F. Zibran and Chanchal K. Roy. Conflict-aware optimal scheduling of code clone refactoring: A constraint programming approach. In *The 19th IEEE International Conference on Program Comprehension, ICPC 2011, Kingston, ON, Canada, June 22-24, 2011*, pages 266–269. IEEE Computer Society, 2011. doi:10.1109/ICPC.2011.45.

- [670] Minhaz F. Zibran and Chanchal K. Roy. A constraint programming approach to conflict-aware optimal scheduling of prioritized code clone refactoring. In *11th IEEE Working Conference on Source Code Analysis and Manipulation, SCAM 2011, Williamsburg, VA, USA, September 25-26, 2011*, pages 105–114. IEEE Computer Society, 2011. doi:10.1109/SCAM.2011.21.
- [671] Xin Zou and Lihui Zhang. A constraint programming approach for scheduling repetitive projects with atypical activities considering soft logic. *Automation in Construction*, 109:102990, 2020. URL: <https://api.semanticscholar.org/CorpusID:208840808>.
- [672] Şeyda Gür, Tamer Eren, and Hacı Mehmet Alakaş. Surgical operation scheduling with goal programming and constraint programming: A case study. *Mathematics*, 2019. URL: <https://api.semanticscholar.org/CorpusID:88492001>.

A Papers and Articles Missing a Local Copy

This section lists all papers and articles for which we were not able to locate an electronic copy that we could download to our system. This might be because the work is behind a paywall for which we do not have access, or since the paper only exists in hardcopy, for works from the start of the period covered. As in either case we are not able to extract useful information from the work, either automatically, or manually, without the actual text itself, these gaps should be closed where possible.

Table 20: PAPER without Local Copy

Key	URL	Authors	Title	Year	Conference /Journal	Cite
FriedrichFMRSSST	FriedrichFMRSSST	G. Friedrich, M. Frühstück, V. Mer- sheeva, A. Ryabokon, M. Sander, A. Starzacher, E. Teppan	Representing Production Scheduling with Constraint Answer Set Programming	2014	GOR 2014	[222]
VillaverdeP04	VillaverdeP04	K. Villaverde, E. Pontelli	An Investigation of Scheduling in Distributed Constraint Logic Programming	2004	ISCA 2004	[624]
DorndorfPH99	DorndorfPH99	U. Dorndorf, E. Pesch, Toàn Phan Huy	Recent Developments in Scheduling	1999	Operations Research Proceedings 1999	[189]
BoucherBVBL97	BoucherBVBL97	E. Boucher, A. Bachelu, C. Varnier, P. Baptiste, B. Legeard	Multi-criteria Comparison Between Algorithmic, Constraint Logic and Specific Constraint Programming on a Real Scheduling Problem	1997	PACT 1997	[117]
PapeB97	PapeB97	Claude Le Pape, P. Baptiste	A Constraint Programming Library for Preemptive and Non-Preemptive Schedul- ing	1997	PACT 1997	[493]
JourdanFRD94	JourdanFRD94	J. Jourdan, F. Fages, D. Rozzonelli, A. Demeure	Data Alignment and Task Scheduling On Parallel Machines Using Concurrent Con- straint Model-based Programming	1994	ILPS 1994	[328]
Wallace94	Wallace94	M. Wallace	Applying Constraints for Scheduling	1994	Constraint Program- ming 1994	[626]
FoxAS82	FoxAS82	Mark S. Fox, Bradley P. Allen, G. Strohm	Job-Shop Scheduling: An Investigation in Constraint-Directed Reasoning	1982	AAAI 1982	[220]

Table 21: ARTICLE without Local Copy

Key	URL	Authors	Title	Year	Conference /Journal	Cite
FahimiQ23	FahimiQ23	H. Fahimi, C. Quimper	Overload-Checking and Edge-Finding for Robust Cumulative Scheduling	2023	INFORMS Journal on Computing	[208]
GhasemiMH23	GhasemiMH23	S. Ghasemi, R. Tavakkoli-Moghaddam, M. Hamid	Operating room scheduling by emphasising human factors and dynamic decision- making styles: a constraint programming method	2023	International Journal of Systems Science: Oper- ations Logistics	[244]
NouriMHD23	NouriMHD23	B. Vahedi-Nouri, R. Tavakkoli- Moghaddam, Z. Hanzálek, A. Dolgui	Production scheduling in a reconfigurable manufacturing system benefiting from human-robot collaboration	2023	International Journal of Production Research	[606]
HillBCGN22	HillBCGN22	A. Hill, Andrea J. Brickey, I. Cipriano, M. Goycoolea, A. Newman	Optimization Strategies for Resource-Constrained Project Scheduling Problems in Underground Mining	2022	INFORMS Journal on Computing	[303]
MartnezAJ22	MartnezAJ22	Karim Pérez Martínez, Y. Adulyasak, R. Jans	Logic-Based Benders Decomposition for Integrated Process Configuration and Pro- duction Planning Problems	2022	INFORMS Journal on Computing	[430]
NaderiR22	NaderiR22	B. Naderi, V. Roshanaei	Critical-Path-Search Logic-Based Benders Decomposition Approaches for Flexible Job Shop Scheduling	2022	INFORMS Journal on Optimization	[460]
ShiYXQ22	ShiYXQ22	G. Shi, Z. Yang, Y. Xu, Y. Quan	Solving the integrated process planning and scheduling problem using an enhanced constraint programming-based approach	2022	International Journal of Production Research	[551]
CarrierSJP21	CarrierSJP21	J. Carrier, A. Sahli, A. Jouglet, E. Pinson	A faster checker of the energetic reasoning for the cumulative scheduling problem	2021	International Journal of Production Research	[137]
NaderiRBAU21	NaderiRBAU21	B. Naderi, V. Roshanaei, Mehmet A. Be- gen, Dionne M. Aleman, David R. Ur- bach	Increased Surgical Capacity without Additional Resources: Generalized Operating Room Planning and Scheduling	2021	Production and Opera- tions Management	[461]
AlizdehS20	AlizdehS20	S. Alizdeh, S. Saeidi	Fuzzy project scheduling with critical path including risk and resource constraints using linear programming	2020	Int. J. Adv. Intell. Paradigms	[16]

Table 21: ARTICLE without Local Copy

Key	URL	Authors	Title	Year	Conference /Journal	Cite
GuoHLW20	GuoHLW20	P. Guo, X. He, Y. Luan, Y. Wang	Logic-based Benders decomposition for gantry crane scheduling with transferring position constraints in a rail-road container terminal	2020	Engineering Optimization	[270]
EdwardsBSE19	EdwardsBSE19	Steven J. Edwards, D. Baatar, K. Smith-Miles, Andreas T. Ernst	Symmetry breaking of identical projects in the high-multiplicity RCPSP/max	2019	Journal of the Operational Research Society	[194]
WariZ19	WariZ19	E. Wari, W. Zhu	A Constraint Programming model for food processing industry: a case for an ice cream processing facility	2019	International Journal of Production Research	[633]
RoshanaeiLAU17a	RoshanaeiLAU17a	V. Roshanaei, C. Luong, Dionne M. Aleman, David R. Urbach	Collaborative Operating Room Planning and Scheduling	2017	INFORMS Journal on Computing	[525]
ZarandiB12	ZarandiB12	Mohammad M. Fazel-Zarandi, J. Christopher Beck	Using Logic-Based Benders Decomposition to Solve the Capacity- and Distance-Constrained Plant Location Problem	2012	INFORMS Journal on Computing	[214]
EdisO11a	EdisO11a	Emrah B. Edis, I. Ozkarahan	A combined integer/constraint programming approach to a resource-constrained parallel machine scheduling problem with machine eligibility restrictions	2011	Engineering Optimization	[193]
MilanoORT02	MilanoORT02	M. Milano, G. Ottosson, P. Refalo, Erlendur S. Thorsteinsson	The Role of Integer Programming Techniques in Constraint Programming's Global Constraints	2002	INFORMS Journal on Computing	[441]
Tay92	Tay92	David B. H. Tay	COPS: A Constraint Programming Approach to Resource-Limited Project Scheduling	1992	Comput. J.	[580]
Lauriere78	Lauriere78	J. Lauriere	A language and a program for stating and solving combinatorial problems	1978	Artificial Intelligence	[381]

B Papers and Articles Without Recognized Concepts

This section lists papers and articles for which we have a pdf local copy, but where we were not able to extract any of the defined concepts. This can basically have two reasons. We either have included a paper which is not at all related to scheduling, so that none of the defined concepts occur in the paper. A more likely cause is that the pdf file is a scanned document for which optical character recognition was not run or not successful, so that the pdf consists of a series of bitmap images. In that case, pdfgrep is unable to find any text in the document, and no matches for concepts are found. It may be useful to check the pdf files to see if that is the case.

Table 22: PAPER without Concepts

Key	Local Copy	Authors	Title	Year	Conference /Journal	Cite	Pages
BaptisteLV92	Yes	P. Baptiste, B. Legeard, C. Varnier	Hoist scheduling problem: an approach based on constraint logic programming	1992	ICRA 1992	[51]	6
DincbasHSAGB88	Yes	M. Dincbas, Pascal Van Hentenryck, H. Simonis, A. Aggoun, T. Graf, F. Berthier	The Constraint Logic Programming Language CHIP	1988	FGCS 1988	[184]	10

Table 23: ARTICLE without Concepts

Key	Local Copy	Authors	Title	Year	Conference /Journal	Cite	Pages
KorbaaYG00	Yes	O. Korbaa, P. Yim, J. Gentina	Solving Transient Scheduling Problems with Constraint Programming	2000	Eur. J. Control	[354]	10
LopezAKYG00	Yes	P. Lopez, H. Alla, O. Korbaa, P. Yim, J. Gentina	Discussion on: 'Solving Transient Scheduling Problems with Constraint Programming' by O. Korbaa, P. Yim, and J.-C. Gentina	2000	Eur. J. Control	[412]	4
CarlierP94	Yes	J. Carlier, E. Pinson	Adjustment of heads and tails for the job-shop problem	1994	European Journal of Operational Research	[136]	16
ApplegateC91	Yes	D. Applegate, W. Cook	A Computational Study of the Job-Shop Scheduling Problem	1991	ORSA Journal on Computing	[23]	8

C Unmatched Concepts

This section lists those concepts for which no matches were found. The most likely cause is a mistake in the regular expression used to find the concept, but it is also possible that some concept simply is not mentioned in any of the documents.

Table 24: Unmatched Concepts

Type	Name	CaseSensitive	Revision
Industries	PCB industry		0
Industries	electricity industry		0
Industries	leisure industry		0
Industries	metalworking industry		0
Industries	nuclear industry		0
Industries	steel making industry		0
ApplicationAreas	day-ahead market		0
ApplicationAreas	ship building		0
Classification	Modified Generalized Assignment Problem		0
Classification	PP-MS-MMRCPS	Y	1
Classification	Pre-emptive Job-Shop scheduling Problem		0
Classification	Resource-constrained Project Scheduling Problem with Discounted Cashflow		0
Classification	SMSDP	Y	1
Classification	Steel-making and continuous casting		0
Concepts	Logic-Based Benders Decomposition		0

D Works by Author

D.1 49 Works by J. Christopher Beck

Table 25: Works from bibtex (Total 49)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
LuoB22 LuoB22	Yiqing L. Luo, J. Christopher Beck	Packing by Scheduling: Using Constraint Programming to Solve a Complex 2D Cutting Stock Problem	Yes	[418]	2022	CPAIOR 2022	17	0	28	524	667
ZhangBB22 ZhangBB22	J. Zhang, Giovanni Lo Bianco, J. Christopher Beck	Solving Job-Shop Scheduling Problems with QUBO-Based Specialized Hardware	Yes	[660]	2022	ICAPS 2022	9	0	0	637	675
RoshanaeiBAUB20 RoshanaeiBAUB20	V. Roshanaei, Kyle E.C. Booth, Dionne M. Aleman, David R. Urbach, J. Christopher Beck	Branch-and-check methods for multi-level operating room planning and scheduling	Yes	[523]	2020	International Journal of Production Economics	19	24	43	1437	1583
TangB20 TangB20	Tanya Y. Tang, J. Christopher Beck	CP and Hybrid Models for Two-Stage Batching and Scheduling	Yes	[575]	2020	CPAIOR 2020	16	6	12	592	696
TranPZLDB18 TranPZLDB18	Tony T. Tran, M. Padmanabhan, Peter Yun Zhang, H. Li, Douglas G. Down, J. Christopher Beck	Multi-stage resource-aware scheduling for data centers with heterogeneous servers	Yes	[599]	2018	Journal of Scheduling	17	8	26	1465	1619
CohenHB17 CohenHB17	E. Cohen, G. Huang, J. Christopher Beck	(I Can Get) Satisfaction: Preference-Based Scheduling for Concert-Goers at Multi-venue Music Festivals	Yes	[155]	2017	SAT 2017	17	1	12	403	734
TranVNB17 TranVNB17	Tony T. Tran, Tiago Stegun Vaquero, G. Nejat, J. Christopher Beck	Robots in Retirement Homes: Applying Off-the-Shelf Planning and Scheduling to a Team of Assistive Robots	Yes	[601]	2017	J. Artif. Intell. Res.	68	12	0	1466	1627
TranVNB17a TranVNB17a	Tony T. Tran, Tiago Stegun Vaquero, G. Nejat, J. Christopher Beck	Robots in Retirement Homes: Applying Off-the-Shelf Planning and Scheduling to a Team of Assistive Robots (Extended Abstract)	Yes	[602]	2017	IJCAI 2017	5	1	0	607	743
BoothNB16 BoothNB16	Kyle E. C. Booth, G. Nejat, J. Christopher Beck	A Constraint Programming Approach to Multi-Robot Task Allocation and Scheduling in Retirement Homes	Yes	[115]	2016	CP 2016	17	21	24	385	747
KuB16 KuB16	W. Ku, J. Christopher Beck	Mixed Integer Programming models for job shop scheduling: A computational analysis	Yes	[367]	2016	Computers Operations Research	9	119	17	1372	1635
LuoVLBM16 LuoVLBM16	R. Luo, Richard Anthony Valenzano, Y. Li, J. Christopher Beck, Sheila A. McIlraith	Using Metric Temporal Logic to Specify Scheduling Problems	Yes	[417]	2016	KR 2016	4	0	0	525	757
TranAB16 TranAB16	Tony T. Tran, A. Araujo, J. Christopher Beck	Decomposition Methods for the Parallel Machine Scheduling Problem with Setups	Yes	[596]	2016	INFORMS Journal on Computing	13	72	28	1464	1638
TranDRFWOVB16 TranDRFWOVB16	Tony T. Tran, M. Do, Eleanor Gilbert Rieffel, J. Frank, Z. Wang, B. O’Gorman, D. Venturelli, J. Christopher Beck	A Hybrid Quantum-Classical Approach to Solving Scheduling Problems	Yes	[598]	2016	SOCS 2016	9	3	0	605	762
TranWDRFOVB16 TranWDRFOVB16	Tony T. Tran, Z. Wang, M. Do, Eleanor Gilbert Rieffel, J. Frank, B. O’Gorman, D. Venturelli, J. Christopher Beck	Explorations of Quantum-Classical Approaches to Scheduling a Mars Lander Activity Problem	Yes	[603]	2016	AAAI 2016	9	0	0	608	763
BajestaniB15 BajestaniB15	Maliheh Aramon Bajestani, J. Christopher Beck	A two-stage coupled algorithm for an integrated maintenance planning and flowshop scheduling problem with deteriorating machines	Yes	[43]	2015	Journal of Scheduling	16	17	59	1261	1640
KoschB14 KoschB14	S. Kosch, J. Christopher Beck	A New MIP Model for Parallel-Batch Scheduling with Non-identical Job Sizes	Yes	[355]	2014	CPAIOR 2014	16	4	18	492	794
LouieVNB14 LouieVNB14	Wing-Yue Geoffrey Louie, Tiago Stegun Vaquero, G. Nejat, J. Christopher Beck	An autonomous assistive robot for planning, scheduling and facilitating multi-user activities	Yes	[414]	2014	ICRA 2014	7	16	9	523	796
TerekhovTDB14 TerekhovTDB14	D. Terekhov, Tony T. Tran, Douglas G. Down, J. Christopher Beck	Integrating Queueing Theory and Scheduling for Dynamic Scheduling Problems	Yes	[583]	2014	J. Artif. Intell. Res.	38	12	0	1459	1657
BajestaniB13 BajestaniB13	Maliheh Aramon Bajestani, J. Christopher Beck	Scheduling a Dynamic Aircraft Repair Shop with Limited Repair Resources	Yes	[42]	2013	J. Artif. Intell. Res.	36	14	0	1260	1659

Table 25: Works from bibtex (Total 49)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
HeinzKB13 HeinzKB13	S. Heinz, W. Ku, J. Christopher Beck	Recent Improvements Using Constraint Integer Programming for Resource Allocation and Scheduling	Yes	[293]	2013	CPAIOR 2013	16	9	15	463	801
HeinzSB13 HeinzSB13	S. Heinz, J. Schulz, J. Christopher Beck	Using dual presolving reductions to reformulate cumulative constraints	Yes	[296]	2013	Constraints An Int. J.	36	7	31	1345	1661
TranTDB13 TranTDB13	Tony T. Tran, D. Terekhov, Douglas G. Down, J. Christopher Beck	Hybrid Queueing Theory and Scheduling Models for Dynamic Environments with Sequence-Dependent Setup Times	Yes	[600]	2013	ICAPS 2013	9	0	0	606	809
HeinzB12 HeinzB12	S. Heinz, J. Christopher Beck	Reconsidering Mixed Integer Programming and MIP-Based Hybrids for Scheduling	Yes	[292]	2012	CPAIOR 2012	17	8	21	462	814
TerekhovDOB12 TerekhovDOB12	D. Terekhov, Mustafa K. Dogru, U. Özen, J. Christopher Beck	Solving two-machine assembly scheduling problems with inventory constraints	Yes	[582]	2012	Computers Industrial Engineering	15	8	48	1458	1674
TranB12 TranB12	Tony T. Tran, J. Christopher Beck	Logic-based Benders Decomposition for Alternative Resource Scheduling with Sequence Dependent Setups	Yes	[597]	2012	ECAI 2012	6	0	0	604	821
ZarandiB12 ZarandiB12	Mohammad M. Fazel-Zarandi, J. Christopher Beck	Using Logic-Based Benders Decomposition to Solve the Capacity- and Distance-Constrained Plant Location Problem	No	[214]	2012	INFORMS Journal on Computing	null	38	57	No	1675
BajestaniB11 BajestaniB11	Maliheh Aramon Bajestani, J. Christopher Beck	Scheduling an Aircraft Repair Shop	Yes	[41]	2011	ICAPS 2011	8	0	0	347	823
BeckFW11 BeckFW11	J. Christopher Beck, T. K. Feng, J. Watson	Combining Constraint Programming and Local Search for Job-Shop Scheduling	Yes	[66]	2011	INFORMS Journal on Computing	14	43	23	1271	1678
HeckmanB11 HeckmanB11	I. Heckman, J. Christopher Beck	Understanding the behavior of Solution-Guided Search for job-shop scheduling	Yes	[291]	2011	Journal of Scheduling	20	0	22	1343	1684
KovacsB11 KovacsB11	A. Kovács, J. Christopher Beck	A global constraint for total weighted completion time for unary resources	Yes	[358]	2011	Constraints An Int. J.	24	4	26	1368	1686
BidotVLB09 BidotVLB09	J. Bidot, T. Vidal, P. Laborie, J. Christopher Beck	A theoretic and practical framework for scheduling in a stochastic environment	Yes	[94]	2009	Journal of Scheduling	30	58	20	1282	1701
CarchraeB09 CarchraeB09	T. Carchrae, J. Christopher Beck	Principles for the Design of Large Neighborhood Search	Yes	[132]	2009	Journal of Mathematical Modelling and Algorithms	26	16	19	1294	1703
WuBB09 WuBB09	Christine Wei Wu, Kenneth N. Brown, J. Christopher Beck	Scheduling with uncertain durations: Modeling beta-robust scheduling with constraints	Yes	[645]	2009	Computers Operations Research	9	42	5	1475	1709
KovacsB08 KovacsB08	A. Kovács, J. Christopher Beck	A global constraint for total weighted completion time for cumulative resources	Yes	[357]	2008	Eng. Appl. Artif. Intell.	7	5	14	1367	1712
WatsonB08 WatsonB08	J. Watson, J. Christopher Beck	A Hybrid Constraint Programming / Local Search Approach to the Job-Shop Scheduling Problem	Yes	[634]	2008	CPAIOR 2008	15	14	17	624	869
Beck07 Beck07	J. Christopher Beck	Solution-Guided Multi-Point Constructive Search for Job Shop Scheduling	Yes	[64]	2007	J. Artif. Intell. Res.	29	34	0	1268	1717
BeckW07 BeckW07	J. Christopher Beck, N. Wilson	Proactive Algorithms for Job Shop Scheduling with Probabilistic Durations	Yes	[73]	2007	J. Artif. Intell. Res.	50	27	0	1273	1718
KovacsB07 KovacsB07	A. Kovács, J. Christopher Beck	A Global Constraint for Total Weighted Completion Time	Yes	[356]	2007	CPAIOR 2007	15	2	12	493	876
Beck06 Beck06	J. Christopher Beck	An Empirical Study of Multi-Point Constructive Search for Constraint-Based Scheduling	Yes	[63]	2006	ICAPS 2006	10	0	0	357	881
BeckW05 BeckW05	J. Christopher Beck, N. Wilson	Proactive Algorithms for Scheduling with Probabilistic Durations	Yes	[72]	2005	IJCAI 2005	6	0	0	361	891
CarchraeBF05 CarchraeBF05	T. Carchrae, J. Christopher Beck, Eugene C. Freuder	Methods to Learn Abstract Scheduling Models	Yes	[133]	2005	CP 2005	1	0	0	392	892
WuBB05 WuBB05	Christine Wei Wu, Kenneth N. Brown, J. Christopher Beck	Scheduling with Uncertain Start Dates	Yes	[644]	2005	CP 2005	1	0	0	633	908
BeckW04 BeckW04	J. Christopher Beck, N. Wilson	Job Shop Scheduling with Probabilistic Durations	Yes	[71]	2004	ECAI 2004	5	0	0	360	910
BeckPS03 BeckPS03	J. Christopher Beck, P. Prosser, E. Selensky	Vehicle Routing and Job Shop Scheduling: What's the Difference?	Yes	[69]	2003	ICAPS 2003	10	0	0	359	921

Table 25: Works from bibtex (Total 49)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
BeckR03 BeckR03	J. Christopher Beck, P. Refalo	A Hybrid Approach to Scheduling with Earliness and Tardiness Costs	Yes	[70]	2003	Annals of Operations Research	23	29	0	1272	1733
BeckF00 BeckF00	J. Christopher Beck, Mark S. Fox	Dynamic problem structure analysis as a basis for constraint-directed scheduling heuristics	Yes	[68]	2000	Artificial Intelligence	51	24	19	1269	1748
Beck99 Beck99	J. Christopher Beck	Texture measurements as a basis for heuristic commitment techniques in constraint-directed scheduling	Yes	[62]	1999	University of Toronto, Canada	418	0	0	2807	n/a
BeckF98 BeckF98	J. Christopher Beck, Mark S. Fox	A Generic Framework for Constraint-Directed Search and Scheduling	Yes	[67]	1998	AI Mag.	30	0	0	1270	1759
BeckDF97 BeckDF97	J. Christopher Beck, Andrew J. Davenport, Mark S. Fox	Five Pitfalls of Empirical Scheduling Research	Yes	[65]	1997	CP 1997	15	3	12	358	952

D.2 31 Works by Michela Milano

Table 26: Works from bibtex (Total 31)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
BorghesiBLMB18 BorghesiBLMB18	A. Borghesi, A. Bartolini, M. Lombardi, M. Milano, L. Benini	Scheduling-based power capping in high performance computing systems	Yes	[116]	2018	Sustain. Comput. Informatics Syst.	13	11	22	1289	1605
BonfiettiZLM16 BonfiettiZLM16	A. Bonfietti, A. Zanarini, M. Lombardi, M. Milano	The Multirate Resource Constraint	Yes	[113]	2016	CP 2016	17	0	11	383	746
BridiBLMB16 BridiBLMB16	T. Bridi, A. Bartolini, M. Lombardi, M. Milano, L. Benini	A Constraint Programming Scheduler for Heterogeneous High-Performance Computing Machines	Yes	[121]	2016	IEEE Trans. Parallel Distributed Syst.	14	17	22	1291	1630
BridiLBBM16 BridiLBBM16	T. Bridi, M. Lombardi, A. Bartolini, L. Benini, M. Milano	DARDIS: Distributed And Randomized DIspatching and Scheduling	Yes	[122]	2016	ECAI 2016	2	0	0	387	748
LombardiBM15 LombardiBM15	M. Lombardi, A. Bonfietti, M. Milano	Deterministic Estimation of the Expected Makespan of a POS Under Duration Uncertainty	Yes	[401]	2015	CP 2015	16	0	8	518	774
BartoliniBBLM14 BartoliniBBLM14	A. Bartolini, A. Borghesi, T. Bridi, M. Lombardi, M. Milano	Proactive Workload Dispatching on the EURORA Supercomputer	Yes	[60]	2014	CP 2014	16	12	3	355	783
BonfiettiLBM14 BonfiettiLBM14	A. Bonfietti, M. Lombardi, L. Benini, M. Milano	CROSS cyclic resource-constrained scheduling solver	Yes	[109]	2014	Artificial Intelligence CPAIOR 2014	28	8	15	1288	1652
BonfiettiLM14 BonfiettiLM14	A. Bonfietti, M. Lombardi, M. Milano	Disregarding Duration Uncertainty in Partial Order Schedules? Yes, We Can!	Yes	[111]	2014	CPAIOR 2014	16	3	12	381	786
BonfiettiLM13 BonfiettiLM13	A. Bonfietti, M. Lombardi, M. Milano	De-Cycling Cyclic Scheduling Problems	Yes	[110]	2013	ICAPS 2013	5	0	0	380	797
LombardiM13 LombardiM13	M. Lombardi, M. Milano	A Min-Flow Algorithm for Minimal Critical Set Detection in Resource Constrained Project Scheduling	Yes	[408]	2013	ICAPS 2013	2	0	0	522	804
LombardiMB13 LombardiMB13	M. Lombardi, M. Milano, L. Benini	Robust Scheduling of Task Graphs under Execution Time Uncertainty	Yes	[409]	2013	IEEE Transactions on Computers	14	28	29	1385	1662
BonfiettiLBM12 BonfiettiLBM12	A. Bonfietti, M. Lombardi, L. Benini, M. Milano	Global Cyclic Cumulative Constraint	Yes	[108]	2012	CPAIOR 2012	16	2	11	379	811
BonfiettiM12 BonfiettiM12	A. Bonfietti, M. Milano	A Constraint-based Approach to Cyclic Resource-Constrained Scheduling Problem	Yes	[112]	2012	DC SIAAI 2012	3	0	0	382	812
LombardiM12 LombardiM12	M. Lombardi, M. Milano	Optimal methods for resource allocation and scheduling: a cross-disciplinary survey	Yes	[407]	2012	Constraints An Int. J.	35	39	68	1383	1669
LombardiM12a LombardiM12a	M. Lombardi, M. Milano	A min-flow algorithm for Minimal Critical Set detection in Resource Constrained Project Scheduling	Yes	[406]	2012	Artificial Intelligence	10	3	13	1384	1670
BeniniLMR11 BeniniLMR11	L. Benini, M. Lombardi, M. Milano, M. Ruggiero	Optimal resource allocation and scheduling for the CELL BE platform	Yes	[90]	2011	Annals of Operations Research	27	18	16	1280	1680
BonfiettiLBM11 BonfiettiLBM11	A. Bonfietti, M. Lombardi, L. Benini, M. Milano	A Constraint Based Approach to Cyclic RCPSP	Yes	[107]	2011	CP 2011	15	3	14	378	824
LombardiBMB11 LombardiBMB11	M. Lombardi, A. Bonfietti, M. Milano, L. Benini	Precedence Constraint Posting for Cyclic Scheduling Problems	Yes	[402]	2011	CPAIOR 2011	17	1	13	519	833
Milano11 Milano11	M. Milano	Constraint Programming Links with Math Programming	No	[440]	2011	Wiley Encyclopedia of Operations Research and Management Science	null	0	28	No	n/a
LombardiM10 LombardiM10	M. Lombardi, M. Milano	Constraint Based Scheduling to Deal with Uncertain Durations and Self-Timed Execution	Yes	[405]	2010	CP 2010	15	1	11	521	843
LombardiM10a LombardiM10a	M. Lombardi, M. Milano	Allocation and scheduling of Conditional Task Graphs	Yes	[404]	2010	Artificial Intelligence	30	8	24	1382	1695
LombardiMRB10 LombardiMRB10	M. Lombardi, M. Milano, M. Ruggiero, L. Benini	Stochastic allocation and scheduling for conditional task graphs in multi-processor systems-on-chip	Yes	[410]	2010	Journal of Scheduling	31	24	41	1386	1696

Table 26: Works from bibtex (Total 31)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
LombardiM09	M. Lombardi, M. Milano	A Precedence Constraint Posting Approach for the RCPSP with Time Lags and Variable Durations	Yes	[403]	2009	CP 2009	15	7	12	520	852
LombardiM09 MilanoW09 MilanoW09	M. Milano, M. Wallace	Integrating Operations Research in Constraint Programming	Yes	[443]	2009	Annals of Operations Research	40	34	46	1401	1706
RuggieroBBMA09 RuggieroBBMA09	M. Ruggiero, D. Bertozzi, L. Benini, M. Milano, A. Andrei	Reducing the Abstraction and Optimality Gaps in the Allocation and Scheduling for Variable Voltage/Frequency MPSoC Platforms	Yes	[527]	2009	IEEE Trans. Comput. Aided Des. Integr. Circuits Syst.	14	9	27	1439	1708
BeniniLMR08 BeniniLMR08	L. Benini, M. Lombardi, M. Milano, M. Ruggiero	A Constraint Programming Approach for Allocation and Scheduling on the CELL Broadband Engine	Yes	[89]	2008	CP 2008	15	7	23	369	861
BeniniBGM06 BeniniBGM06	L. Benini, D. Bertozzi, A. Guerri, M. Milano	Allocation, Scheduling and Voltage Scaling on Energy Aware MPSoCs	Yes	[88]	2006	CPAIOR 2006	15	18	10	368	882
MilanoW06 MilanoW06	M. Milano, M. Wallace	Integrating operations research in constraint programming	Yes	[442]	2006	4OR	45	18	46	1400	1725
MilanoORT02 MilanoORT02	M. Milano, G. Ottosson, P. Refalo, Erlendur S. Thorsteinsson	The Role of Integer Programming Techniques in Constraint Programming's Global Constraints	No	[441]	2002	INFORMS Journal on Computing	null	14	31	No	1740
LammaMM97 LammaMM97	E. Lamma, P. Mello, M. Milano	A distributed constraint-based scheduler	Yes	[379]	1997	Artif. Intell. Eng.	15	11	7	1377	1765
BrusoniCLMMT96 BrusoniCLMMT96	V. Brusoni, L. Console, E. Lamma, P. Mello, M. Milano, P. Terenziani	Resource-Based vs. Task-Based Approaches for Scheduling Problems	Yes	[124]	1996	ISMIS 1996	10	1	9	388	956

D.3 27 Works by Andreas Schutt

Table 27: Works from bibtex (Total 27)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
YangSS19 YangSS19	M. Yang, A. Schutt, Peter J. Stuckey	Time Table Edge Finding with Energy Variables	Yes	[646]	2019	CPAIOR 2019	10	1	14	634	714
GoldwaserS18 GoldwaserS18	A. Goldwaser, A. Schutt	Optimal Torpedo Scheduling	Yes	[253]	2018	J. Artif. Intell. Res.	32	8	0	1325	1610
KreterSSZ18 KreterSSZ18	S. Kreter, A. Schutt, Peter J. Stuckey, J. Zimmermann	Mixed-integer linear programming and constraint programming formulations for solving resource availability cost problems	Yes	[366]	2018	European Journal of Operational Research	15	25	31	1371	1614
MusliuSS18 MusliuSS18	N. Musliu, A. Schutt, Peter J. Stuckey	Solver Independent Rotating Workforce Scheduling	Yes	[457]	2018	CPAIOR 2018	17	7	23	544	725
GoldwaserS17 GoldwaserS17	A. Goldwaser, A. Schutt	Optimal Torpedo Scheduling	Yes	[252]	2017	CP 2017	16	0	10	446	736
KreterSS17 KreterSS17	S. Kreter, A. Schutt, Peter J. Stuckey	Using constraint programming for solving RCPSP/max-cal	Yes	[365]	2017	Constraints An Int. J.	31	15	20	1370	1623
YoungFS17 YoungFS17	Kenneth D. Young, T. Feydy, A. Schutt	Constraint Programming Applied to the Multi-Skill Project Scheduling Problem	Yes	[648]	2017	CP 2017	10	6	21	635	744
SchuttS16 SchuttS16	A. Schutt, Peter J. Stuckey	Explaining Producer/Consumer Constraints	Yes	[545]	2016	CP 2016	17	3	23	576	759
SzerediS16 SzerediS16	R. Szeredi, A. Schutt	Modelling and Solving Multi-mode Resource-Constrained Project Scheduling	Yes	[572]	2016	CP 2016	10	9	14	590	760
EvenSH15 EvenSH15	C. Even, A. Schutt, Pascal Van Hentenryck	A Constraint Programming Approach for Non-preemptive Evacuation Scheduling	Yes	[204]	2015	CP 2015	18	3	12	422	768
EvenSH15a EvenSH15a	C. Even, A. Schutt, Pascal Van Hentenryck	A Constraint Programming Approach for Non-Preemptive Evacuation Scheduling	Yes	[205]	2015	CoRR	16	0	0	1311	1641
KreterSS15 KreterSS15	S. Kreter, A. Schutt, Peter J. Stuckey	Modeling and Solving Project Scheduling with Calendars	Yes	[364]	2015	CP 2015	17	7	16	498	772
SchuttFSW15 SchuttFSW15	A. Schutt, T. Feydy, Peter J. Stuckey, Mark G. Wallace	A Satisfiability Solving Approach	No	[544]	2015	Handbook on Project Management and Scheduling Vol.1	26	3	28	No	n/a
GuSSWC14 GuSSWC14	H. Gu, A. Schutt, Peter J. Stuckey, Mark G. Wallace, G. Chu	Exact and Heuristic Methods for the Resource-Constrained Net Present Value Problem	No	[268]	2014	Handbook on Project Management and Scheduling Vol.1	null	5	35	No	n/a
ThiruvadyWGS14 ThiruvadyWGS14	Dhananjay R. Thiruvady, M. Wallace, H. Gu, A. Schutt	A Lagrangian relaxation and ACO hybrid for resource constrained project scheduling with discounted cash flows	Yes	[587]	2014	J. Heuristics	34	19	18	1460	1658
ChuGNSW13 ChuGNSW13	G. Chu, S. Gaspers, N. Narodytska, A. Schutt, T. Walsh	On the Complexity of Global Scheduling Constraints under Structural Restrictions	Yes	[148]	2013	IJCAI 2013	7	0	0	398	798
GuSS13 GuSS13	H. Gu, A. Schutt, Peter J. Stuckey	A Lagrangian Relaxation Based Forward-Backward Improvement Heuristic for Maximising the Net Present Value of Resource-Constrained Projects	Yes	[267]	2013	CPAIOR 2013	7	10	24	455	800
SchuttFS13 SchuttFS13	A. Schutt, T. Feydy, Peter J. Stuckey	Scheduling Optional Tasks with Explanation	Yes	[539]	2013	CP 2013	17	10	20	573	807
SchuttFS13a SchuttFS13a	A. Schutt, T. Feydy, Peter J. Stuckey	Explaining Time-Table-Edge-Finding Propagation for the Cumulative Resource Constraint	Yes	[538]	2013	CPAIOR 2013	17	20	27	574	808
SchuttFSW13 SchuttFSW13	A. Schutt, T. Feydy, Peter J. Stuckey, Mark G. Wallace	Solving RCPSP/max by lazy clause generation	Yes	[543]	2013	Journal of Scheduling	17	43	23	1447	1665
SchuttCSW12 SchuttCSW12	A. Schutt, G. Chu, Peter J. Stuckey, Mark G. Wallace	Maximising the Net Present Value for Resource-Constrained Project Scheduling	Yes	[537]	2012	CPAIOR 2012	17	18	21	572	818
Schutt11 Schutt11	A. Schutt	Improving Scheduling by Learning	Yes	[536]	2011	University of Melbourne, Australia	209	0	0	2829	n/a
SchuttFSW11 SchuttFSW11	A. Schutt, T. Feydy, Peter J. Stuckey, Mark G. Wallace	Explaining the cumulative propagator	Yes	[542]	2011	Constraints An Int. J.	33	57	23	1446	1689

Table 27: Works from bibtex (Total 27)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
SchuttW10 SchuttW10	A. Schutt, A. Wolf	A New $O(n^2 \log n)$ Not-First/Not-Last Pruning Algorithm for Cumulative Resource Constraints	Yes	[546]	2010	CP 2010	15	13	14	577	845
abs-1009-0347 abs-1009-0347	A. Schutt, T. Feydy, Peter J. Stuckey, Mark G. Wallace	Solving the Resource Constrained Project Scheduling Problem with Generalized Precedences by Lazy Clause Generation	Yes	[541]	2010	CoRR	37	0	0	1490	1700
SchuttFSW09 SchuttFSW09	A. Schutt, T. Feydy, Peter J. Stuckey, M. Wallace	Why Cumulative Decomposition Is Not as Bad as It Sounds	Yes	[540]	2009	CP 2009	16	34	11	575	854
SchuttWS05 SchuttWS05	A. Schutt, A. Wolf, G. Schrader	Not-First and Not-Last Detection for Cumulative Scheduling in $O(n^3 \log n)$	Yes	[547]	2005	INAP 2005	15	6	4	578	904

D.4 25 Works by Michele Lombardi

Table 28: Works from bibtex (Total 25)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
BorghesiBLMB18	A. Borghesi, A. Bartolini, M. Lombardi, M. Milano, L. Benini	Scheduling-based power capping in high performance computing systems	Yes	[116]	2018	Sustain. Comput. Informatics Syst.	13	11	22	1289	1605
BorghesiBLMB18											
CauwelaertLS18	Sascha Van Cauwelaert, M. Lombardi, P. Schaus	How efficient is a global constraint in practice? - A fair experimental framework	Yes	[142]	2018	Constraints An Int. J.	36	2	39	1296	1606
CauwelaertLS18											
BonfiettiZLM16	A. Bonfietti, A. Zanarini, M. Lombardi, M. Milano	The Multirate Resource Constraint	Yes	[113]	2016	CP 2016	17	0	11	383	746
BonfiettiZLM16											
BridiBLMB16	T. Bridi, A. Bartolini, M. Lombardi, M. Milano, L. Benini	A Constraint Programming Scheduler for Heterogeneous High-Performance Computing Machines	Yes	[121]	2016	IEEE Trans. Parallel Distributed Syst.	14	17	22	1291	1630
BridiBLMB16											
BridiLBBM16	T. Bridi, M. Lombardi, A. Bartolini, L. Benini, M. Milano	DARDIS: Distributed And Randomized DIspatching and Scheduling	Yes	[122]	2016	ECAI 2016	2	0	0	387	748
BridiLBBM16											
LombardiBM15	M. Lombardi, A. Bonfietti, M. Milano	Deterministic Estimation of the Expected Makespan of a POS Under Duration Uncertainty	Yes	[401]	2015	CP 2015	16	0	8	518	774
LombardiBM15											
BartoliniBBLM14	A. Bartolini, A. Borghesi, T. Bridi, M. Lombardi, M. Milano	Proactive Workload Dispatching on the EURORA Supercomputer	Yes	[60]	2014	CP 2014	16	12	3	355	783
BartoliniBBLM14											
BonfiettiLBM14	A. Bonfietti, M. Lombardi, L. Benini, M. Milano	CROSS cyclic resource-constrained scheduling solver	Yes	[109]	2014	Artificial Intelligence CPAIOR 2014	28	8	15	1288	1652
BonfiettiLBM14											
BonfiettiLM14	A. Bonfietti, M. Lombardi, M. Milano	Disregarding Duration Uncertainty in Partial Order Schedules? Yes, We Can!	Yes	[111]	2014	CPAIOR 2014	16	3	12	381	786
BonfiettiLM14											
BonfiettiLM13	A. Bonfietti, M. Lombardi, M. Milano	De-Cycling Cyclic Scheduling Problems	Yes	[110]	2013	ICAPS 2013	5	0	0	380	797
BonfiettiLM13											
LombardiM13	M. Lombardi, M. Milano	A Min-Flow Algorithm for Minimal Critical Set Detection in Resource Constrained Project Scheduling	Yes	[408]	2013	ICAPS 2013	2	0	0	522	804
LombardiM13											
LombardiMB13	M. Lombardi, M. Milano, L. Benini	Robust Scheduling of Task Graphs under Execution Time Uncertainty	Yes	[409]	2013	IEEE Transactions on Computers	14	28	29	1385	1662
LombardiMB13											
BonfiettiLBM12	A. Bonfietti, M. Lombardi, L. Benini, M. Milano	Global Cyclic Cumulative Constraint	Yes	[108]	2012	CPAIOR 2012	16	2	11	379	811
BonfiettiLBM12											
LombardiM12	M. Lombardi, M. Milano	Optimal methods for resource allocation and scheduling: a cross-disciplinary survey	Yes	[407]	2012	Constraints An Int. J.	35	39	68	1383	1669
LombardiM12											
LombardiM12a	M. Lombardi, M. Milano	A min-flow algorithm for Minimal Critical Set detection in Resource Constrained Project Scheduling	Yes	[406]	2012	Artificial Intelligence	10	3	13	1384	1670
LombardiM12a											
BeniniLMR11	L. Benini, M. Lombardi, M. Milano, M. Ruggiero	Optimal resource allocation and scheduling for the CELL BE platform	Yes	[90]	2011	Annals of Operations Research	27	18	16	1280	1680
BeniniLMR11											
BonfiettiLBM11	A. Bonfietti, M. Lombardi, L. Benini, M. Milano	A Constraint Based Approach to Cyclic RCPSP	Yes	[107]	2011	CP 2011	15	3	14	378	824
BonfiettiLBM11											
LombardiBMB11	M. Lombardi, A. Bonfietti, M. Milano, L. Benini	Precedence Constraint Posting for Cyclic Scheduling Problems	Yes	[402]	2011	CPAIOR 2011	17	1	13	519	833
LombardiBMB11											
Lombardi10	M. Lombardi	Hybrid Methods for Resource Allocation and Scheduling Problems in Deterministic and Stochastic Environments	Yes	[400]	2010	University of Bologna, Italy	175	0	0	2823	n/a
Lombardi10											
LombardiM10	M. Lombardi, M. Milano	Constraint Based Scheduling to Deal with Uncertain Durations and Self-Timed Execution	Yes	[405]	2010	CP 2010	15	1	11	521	843
LombardiM10											
LombardiM10a	M. Lombardi, M. Milano	Allocation and scheduling of Conditional Task Graphs	Yes	[404]	2010	Artificial Intelligence	30	8	24	1382	1695
LombardiM10a											
LombardiMRB10	M. Lombardi, M. Milano, M. Ruggiero, L. Benini	Stochastic allocation and scheduling for conditional task graphs in multi-processor systems-on-chip	Yes	[410]	2010	Journal of Scheduling	31	24	41	1386	1696
LombardiMRB10											
LombardiM09	M. Lombardi, M. Milano	A Precedence Constraint Posting Approach for the RCPSP with Time Lags and Variable Durations	Yes	[403]	2009	CP 2009	15	7	12	520	852
LombardiM09											

Table 28: Works from bibtex (Total 25)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
BeniniLMR08	L. Benini, M. Lombardi, M. Milano, M. Ruggiero	A Constraint Programming Approach for Allocation and Scheduling on the CELL Broadband Engine	Yes	[89]	2008	CP 2008	15	7	23	369	861
HoeveGSL07	Willem-Jan van Hoeve, Carla P. Gomes, B. Selman, M. Lombardi	Optimal Multi-Agent Scheduling with Constraint Programming	Yes	[611]	2007	AAAI 2007	6	0	0	470	874

D.5 24 Works by Peter J. Stuckey

Table 29: Works from bibtex (Total 24)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
YangSS19 YangSS19	M. Yang, A. Schutt, Peter J. Stuckey	Time Table Edge Finding with Energy Variables	Yes	[646]	2019	CPAIOR 2019	10	1	14	634	714
DemirovicS18 DemirovicS18	E. Demirovic, Peter J. Stuckey	Constraint Programming for High School Timetabling: A Scheduling-Based Model with Hot Starts	Yes	[178]	2018	CPAIOR 2018	18	4	16	411	720
KreterSSZ18 KreterSSZ18	S. Kreter, A. Schutt, Peter J. Stuckey, J. Zimmermann	Mixed-integer linear programming and constraint programming formulations for solving resource availability cost problems	Yes	[366]	2018	European Journal of Operational Research	15	25	31	1371	1614
MusliuSS18 MusliuSS18	N. Musliu, A. Schutt, Peter J. Stuckey	Solver Independent Rotating Workforce Scheduling	Yes	[457]	2018	CPAIOR 2018	17	7	23	544	725
KreterSS17 KreterSS17	S. Kreter, A. Schutt, Peter J. Stuckey	Using constraint programming for solving RCPSP/max-cal	Yes	[365]	2017	Constraints An Int. J.	31	15	20	1370	1623
BlomPS16 BlomPS16	Michelle L. Blom, Adrian R. Pearce, Peter J. Stuckey	A Decomposition-Based Algorithm for the Scheduling of Open-Pit Networks Over Multiple Time Periods	Yes	[100]	2016	Manag. Sci.	26	20	36	1285	1628
SchuttS16 SchuttS16	A. Schutt, Peter J. Stuckey	Explaining Producer/Consumer Constraints	Yes	[545]	2016	CP 2016	17	3	23	576	759
BurtLPS15 BurtLPS15	Christina N. Burt, N. Lipovetzky, Adrian R. Pearce, Peter J. Stuckey	Scheduling with Fixed Maintenance, Shared Resources and Nonlinear Feeder Constraints: A Mine Planning Case Study	Yes	[125]	2015	CPAIOR 2015	17	0	8	389	766
KreterSS15 KreterSS15	S. Kreter, A. Schutt, Peter J. Stuckey	Modeling and Solving Project Scheduling with Calendars	Yes	[364]	2015	CP 2015	17	7	16	498	772
SchuttFSW15 SchuttFSW15	A. Schutt, T. Feydy, Peter J. Stuckey, Mark G. Wallace	A Satisfiability Solving Approach	No	[544]	2015	Handbook on Project Management and Scheduling Vol.1	26	3	28	No	n/a
BlomBPS14 BlomBPS14	Michelle L. Blom, Christina N. Burt, Adrian R. Pearce, Peter J. Stuckey	A Decomposition-Based Heuristic for Collaborative Scheduling in a Network of Open-Pit Mines	Yes	[99]	2014	INFORMS Journal on Computing	19	15	47	1284	1651
GuSSWC14 GuSSWC14	H. Gu, A. Schutt, Peter J. Stuckey, Mark G. Wallace, G. Chu	Exact and Heuristic Methods for the Resource-Constrained Net Present Value Problem	No	[268]	2014	Handbook on Project Management and Scheduling Vol.1	null	5	35	No	n/a
LipovetzkyBPS14 LipovetzkyBPS14	N. Lipovetzky, Christina N. Burt, Adrian R. Pearce, Peter J. Stuckey	Planning for Mining Operations with Time and Resource Constraints	Yes	[396]	2014	ICAPS 2014	9	0	0	514	795
GuSS13 GuSS13	H. Gu, A. Schutt, Peter J. Stuckey	A Lagrangian Relaxation Based Forward-Backward Improvement Heuristic for Maximising the Net Present Value of Resource-Constrained Projects	Yes	[267]	2013	CPAIOR 2013	7	10	24	455	800
SchuttFS13 SchuttFS13	A. Schutt, T. Feydy, Peter J. Stuckey	Scheduling Optional Tasks with Explanation	Yes	[539]	2013	CP 2013	17	10	20	573	807
SchuttFS13a SchuttFS13a	A. Schutt, T. Feydy, Peter J. Stuckey	Explaining Time-Table-Edge-Finding Propagation for the Cumulative Resource Constraint	Yes	[538]	2013	CPAIOR 2013	17	20	27	574	808
SchuttFSW13 SchuttFSW13	A. Schutt, T. Feydy, Peter J. Stuckey, Mark G. Wallace	Solving RCPSP/max by lazy clause generation	Yes	[543]	2013	Journal of Scheduling	17	43	23	1447	1665
GuSW12 GuSW12	H. Gu, Peter J. Stuckey, Mark G. Wallace	Maximising the Net Present Value of Large Resource-Constrained Projects	Yes	[269]	2012	CP 2012	15	5	20	456	813
SchuttCSW12 SchuttCSW12	A. Schutt, G. Chu, Peter J. Stuckey, Mark G. Wallace	Maximising the Net Present Value for Resource-Constrained Project Scheduling	Yes	[537]	2012	CPAIOR 2012	17	18	21	572	818
BandaSC11 BandaSC11	Maria Garcia de la Banda, Peter J. Stuckey, G. Chu	Solving Talent Scheduling with Dynamic Programming	Yes	[171]	2011	INFORMS Journal on Computing	18	24	17	1262	1676
SchuttFSW11 SchuttFSW11	A. Schutt, T. Feydy, Peter J. Stuckey, Mark G. Wallace	Explaining the cumulative propagator	Yes	[542]	2011	Constraints An Int. J.	33	57	23	1446	1689
abs-1009-0347 abs-1009-0347	A. Schutt, T. Feydy, Peter J. Stuckey, Mark G. Wallace	Solving the Resource Constrained Project Scheduling Problem with Generalized Precedences by Lazy Clause Generation	Yes	[541]	2010	CoRR	37	0	0	1490	1700

Table 29: Works from bibtex (Total 24)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
OhrimenkoSC09	O. Ohrimenko, Peter J. Stuckey, M. Codish	Propagation via lazy clause generation	Yes	[485]	2009	Constraints An Int. J.	35	127	15	1422	1707
SchuttFSW09	A. Schutt, T. Feydy, Peter J. Stuckey, M. Wallace	Why Cumulative Decomposition Is Not as Bad as It Sounds	Yes	[540]	2009	CP 2009	16	34	11	575	854

D.6 19 Works by John N. Hooker

Table 30: Works from bibtex (Total 19)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
ElciOH22 ElciOH22	Özgün Elçi, John N. Hooker	Stochastic Planning and Scheduling with Logic-Based Benders Decomposition	Yes	[196]	2022	INFORMS Journal on Computing	21	2	34	1307	1535
Hooker19 Hooker19	John N. Hooker	Logic-Based Benders Decomposition for Large-Scale Optimization	Yes	[314]	2019	Large Scale Optimization in Supply Chains and Smart Manufacturing	26	8	0	2851	n/a
Hooker17 Hooker17	John N. Hooker	Job Sequencing Bounds from Decision Diagrams	Yes	[313]	2017	CP 2017	14	6	24	473	737
HookerH17 HookerH17	John N. Hooker, Willem-Jan van Hoeve	Constraint programming and operations research	Yes	[316]	2017	Constraints An Int. J.	24	12	189	1351	1622
CireCH16 CireCH16	Andre A. Ciré, E. Coban, John N. Hooker	Logic-based Benders decomposition for planning and scheduling: a computational analysis	Yes	[151]	2016	The Knowledge Engineering Review	12	15	21	1298	1631
HechingH16 HechingH16	Aliza R. Heching, John N. Hooker	Scheduling Home Hospice Care with Logic-Based Benders Decomposition	Yes	[290]	2016	CPAIOR 2016	11	10	0	461	754
HarjunkoskiMBC14 HarjunkoskiMBC14	I. Harjunkoski, Christos T. Maravelias, P. Bongers, Pedro M. Castro, S. Engell, Ignacio E. Grossmann, John N. Hooker, C. Méndez, G. Sand, J. Wassick	Scope for industrial applications of production scheduling models and solution methods	Yes	[281]	2014	Computers Chemical Engineering	33	381	176	1340	1654
CireCH13 CireCH13	André A. Ciré, E. Coban, John N. Hooker	Mixed Integer Programming vs. Logic-Based Benders Decomposition for Planning and Scheduling	Yes	[150]	2013	CPAIOR 2013	7	3	23	400	799
CobanH11 CobanH11	E. Coban, John N. Hooker	Single-facility scheduling by logic-based Benders decomposition	Yes	[154]	2011	Annals of Operations Research	28	14	37	1299	1681
CobanH10 CobanH10	E. Coban, John N. Hooker	Single-Facility Scheduling over Long Time Horizons by Logic-Based Benders Decomposition	Yes	[153]	2010	CPAIOR 2010	5	9	9	402	840
Hooker10 Hooker10	John N. Hooker	Hybrid Modeling	No	[312]	2010	Hybrid Optimization	null	9	39	No	n/a
Hooker07 Hooker07	John N. Hooker	Planning and Scheduling by Logic-Based Benders Decomposition	Yes	[311]	2007	Operations Research	29	181	19	1350	1720
Hooker06 Hooker06	John N. Hooker	An Integrated Method for Planning and Scheduling to Minimize Tardiness	Yes	[310]	2006	Constraints An Int. J.	19	19	13	1349	1723
Hooker05 Hooker05	John N. Hooker	A Hybrid Method for the Planning and Scheduling	Yes	[308]	2005	Constraints An Int. J.	17	68	11	1348	1729
Hooker05a Hooker05a	John N. Hooker	Planning and Scheduling to Minimize Tardiness	Yes	[309]	2005	CP 2005	14	30	10	472	900
Hooker04 Hooker04	John N. Hooker	A Hybrid Method for Planning and Scheduling	Yes	[307]	2004	CP 2004	12	39	9	471	912
HookerO03 HookerO03	John N. Hooker, G. Ottosson	Logic-based Benders decomposition	Yes	[315]	2003	Mathematical Programming	28	317	0	1352	1734
HookerY02 HookerY02	John N. Hooker, H. Yan	A Relaxation of the Cumulative Constraint	Yes	[317]	2002	CP 2002	5	8	7	474	933
Hooker00 Hooker00	John N. Hooker	Logic Based Methods for Optimization: Combining Optimization and Constraint Satisfaction	No	[306]	2000	Book	null	185	0	No	n/a

D.7 17 Works by Emmanuel Hebrard

Table 31: Works from bibtex (Total 17)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
JuvinHHL23 JuvinHHL23	C. Juvin, E. Hebrard, L. Houssin, P. Lopez	An Efficient Constraint Programming Approach to Preemptive Job Shop Scheduling	Yes	[330]	2023	CP 2023	16	0	0	479	649
HebrardALLCMR22 HebrardALLCMR22	E. Hebrard, C. Artigues, P. Lopez, A. Lusson, Steve A. Chien, A. Maillard, Gregg R. Rabideau	An Efficient Approach to Data Transfer Scheduling for Long Range Space Exploration	Yes	[287]	2022	IJCAI 2022	7	0	0	459	664
AntuoriHHEN21 AntuoriHHEN21	V. Antuori, E. Hebrard, M. Huguet, S. Essodaigui, A. Nguyen	Combining Monte Carlo Tree Search and Depth First Search Methods for a Car Manufacturing Workshop Scheduling Problem	Yes	[22]	2021	CP 2021	16	0	0	336	677
ArtiguesHQT21 ArtiguesHQT21	C. Artigues, E. Hebrard, A. Quilliot, H. Toussaint	Multi-Mode RCPSP with Safety Margin Maximization: Models and Algorithms	Yes	[32]	2021	ICORES 2021	8	0	0	342	679
AntuoriHHEN20 AntuoriHHEN20	V. Antuori, E. Hebrard, M. Huguet, S. Essodaigui, A. Nguyen	Leveraging Reinforcement Learning, Constraint Programming and Local Search: A Case Study in Car Manufacturing	Yes	[21]	2020	CP 2020	16	3	8	335	689
GodetLHS20 GodetLHS20	A. Godet, X. Lorca, E. Hebrard, G. Simonin	Using Approximation within Constraint Programming to Solve the Parallel Machine Scheduling Problem with Additional Unit Resources	Yes	[249]	2020	AAAI 2020	8	1	0	445	691
HebrardHJMPV16 HebrardHJMPV16	E. Hebrard, M. Huguet, N. Jozefowicz, A. Maillard, C. Pralet, G. Verfaillie	Approximation of the parallel machine scheduling problem with additional unit resources	Yes	[288]	2016	Discret. Appl. Math.	10	9	8	1342	1634
GrimesH15 GrimesH15	D. Grimes, E. Hebrard	Solving Variants of the Job Shop Scheduling Problem Through Conflict-Directed Search	Yes	[260]	2015	INFORMS Journal on Computing	17	12	41	1328	1643
SialaAH15 SialaAH15	M. Siala, C. Artigues, E. Hebrard	Two Clause Learning Approaches for Disjunctive Scheduling	Yes	[555]	2015	CP 2015	10	4	17	580	779
SimoninAHL15 SimoninAHL15	G. Simonin, C. Artigues, E. Hebrard, P. Lopez	Scheduling scientific experiments for comet exploration	Yes	[557]	2015	Constraints An Int. J.	23	4	5	1451	1649
BessiereHMQW14 BessiereHMQW14	C. Bessiere, E. Hebrard, M. Ménard, C. Quimper, T. Walsh	Buffered Resource Constraint: Algorithms and Complexity	Yes	[93]	2014	CPAIOR 2014	16	1	3	371	784
BillautHL12 BillautHL12	J. Billaut, E. Hebrard, P. Lopez	Complete Characterization of Near-Optimal Sequences for the Two-Machine Flow Shop Scheduling Problem	Yes	[95]	2012	CPAIOR 2012	15	1	19	372	810
SimoninAHL12 SimoninAHL12	G. Simonin, C. Artigues, E. Hebrard, P. Lopez	Scheduling Scientific Experiments on the Rosetta/Philae Mission	Yes	[556]	2012	CP 2012	15	3	8	581	820
GrimesH11 GrimesH11	D. Grimes, E. Hebrard	Models and Strategies for Variants of the Job Shop Scheduling Problem	Yes	[259]	2011	CP 2011	17	5	18	450	828
GrimesH10 GrimesH10	D. Grimes, E. Hebrard	Job Shop Scheduling with Setup Times and Maximal Time-Lags: A Simple Constraint Programming Approach	Yes	[258]	2010	CPAIOR 2010	15	13	20	449	842
GrimesHM09 GrimesHM09	D. Grimes, E. Hebrard, A. Malapert	Closing the Open Shop: Contradicting Conventional Wisdom	Yes	[261]	2009	CP 2009	9	15	12	451	850
HebrardTW05 HebrardTW05	E. Hebrard, P. Tyler, T. Walsh	Computing Super-Schedules	Yes	[289]	2005	CP 2005	1	0	3	460	899

D.8 17 Works by Pierre Lopez

Table 32: Works from bibtex (Total 17)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
JuvinHHL23 JuvinHHL23	C. Juvin, E. Hebrard, L. Houssin, P. Lopez	An Efficient Constraint Programming Approach to Preemptive Job Shop Scheduling	Yes	[330]	2023	CP 2023	16	0	0	479	649
JuvinHL23 JuvinHL23	C. Juvin, L. Houssin, P. Lopez	Constraint Programming for the Robust Two-Machine Flow-Shop Scheduling Problem with Budgeted Uncertainty	Yes	[332]	2023	CPAIOR 2023	16	0	11	480	650
JuvinHL23a JuvinHL23a	C. Juvin, L. Houssin, P. Lopez	Logic-based Benders decomposition for the preemptive flexible job-shop scheduling problem	Yes	[333]	2023	Computers Operations Research	17	0	40	1360	1518
HebrardALLCMR22 HebrardALLCMR22	E. Hebrard, C. Artigues, P. Lopez, A. Lusson, Steve A. Chien, A. Maillard, Gregg R. Rabideau	An Efficient Approach to Data Transfer Scheduling for Long Range Space Exploration	Yes	[287]	2022	IJCAI 2022	7	0	0	459	664
JuvinHL22 JuvinHL22	C. Juvin, L. Houssin, P. Lopez	Logic-Based Benders Decomposition for the Preemptive Flexible Job-Shop Scheduling Problem	Yes	[331]	2022	SSRN Electronic Journal	32	0	29	1359	1542
Polo-MejiaALB20 Polo-MejiaALB20	O. Polo-Mejía, C. Artigues, P. Lopez, V. Basini	Mixed-integer/linear and constraint programming approaches for activity scheduling in a nuclear research facility	Yes	[505]	2020	International Journal of Production Research	18	8	23	1430	1581
NattafHKAL19 NattafHKAL19	M. Nattaf, M. Horváth, T. Kis, C. Artigues, P. Lopez	Polyhedral results and valid inequalities for the continuous energy-constrained scheduling problem	Yes	[468]	2019	Discret. Appl. Math.	16	5	12	1413	1594
NattafAL17 NattafAL17	M. Nattaf, C. Artigues, P. Lopez	Cumulative scheduling with variable task profiles and concave piecewise linear processing rate functions	Yes	[465]	2017	Constraints An Int. J.	18	5	10	1410	1624
NattafALR16 NattafALR16	M. Nattaf, C. Artigues, P. Lopez, D. Rivreau	Energetic reasoning and mixed-integer linear programming for scheduling with a continuous resource and linear efficiency functions	Yes	[466]	2016	OR Spectr.	34	10	15	1411	1636
NattafAL15 NattafAL15	M. Nattaf, C. Artigues, P. Lopez	A hybrid exact method for a scheduling problem with a continuous resource and energy constraints	Yes	[464]	2015	Constraints An Int. J.	21	14	13	1409	1646
SimoninAHL15 SimoninAHL15	G. Simonin, C. Artigues, E. Hebrard, P. Lopez	Scheduling scientific experiments for comet exploration	Yes	[557]	2015	Constraints An Int. J.	23	4	5	1451	1649
BillautHL12 BillautHL12	J. Billaut, E. Hebrard, P. Lopez	Complete Characterization of Near-Optimal Sequences for the Two-Machine Flow Shop Scheduling Problem	Yes	[95]	2012	CPAIOR 2012	15	1	19	372	810
SimoninAHL12 SimoninAHL12	G. Simonin, C. Artigues, E. Hebrard, P. Lopez	Scheduling Scientific Experiments on the Rosetta/Philae Mission	Yes	[556]	2012	CP 2012	15	3	8	581	820
LahimerLH11 LahimerLH11	A. Lahimer, P. Lopez, M. Haouari	Climbing Depth-Bounded Adjacent Discrepancy Search for Solving Hybrid Flow Shop Scheduling Problems with Multiprocessor Tasks	Yes	[377]	2011	CPAIOR 2011	14	3	15	505	832
TrojetHL11 TrojetHL11	M. Trojet, F. H'Mida, P. Lopez	Project scheduling under resource constraints: Application of the cumulative global constraint in a decision support framework	Yes	[604]	2011	Computers Industrial Engineering	7	11	17	1467	1691
LopezAKYG00 LopezAKYG00	P. Lopez, H. Alla, O. Korbaa, P. Yim, J. Gentina	Discussion on: 'Solving Transient Scheduling Problems with Constraint Programming' by O. Korbaa, P. Yim, and J.-C. Gentina	Yes	[412]	2000	Eur. J. Control	4	0	0	1388	1751
TorresL00 TorresL00	P. Torres, P. Lopez	On Not-First/Not-Last conditions in disjunctive scheduling	Yes	[593]	2000	European Journal of Operational Research	12	26	13	1463	1756

D.9 16 Works by Christian Artigues

Table 33: Works from bibtex (Total 16)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
PovedaAA23 PovedaAA23	G. Pováda, N. Álvarez, C. Artigues	Partially Preemptive Multi Skill/Mode Resource-Constrained Project Scheduling with Generalized Precedence Relations and Calendars	Yes	[508]	2023	CP 2023	21	0	0	560	655
HebrardALLCMR22 HebrardALLCMR22	E. Hebrard, C. Artigues, P. Lopez, A. Lussion, Steve A. Chien, A. Maillard, Gregg R. Rabideau	An Efficient Approach to Data Transfer Scheduling for Long Range Space Exploration	Yes	[287]	2022	IJCAI 2022	7	0	0	459	664
PohlAK22 PohlAK22	M. Pohl, C. Artigues, R. Kolisch	Solving the time-discrete winter runway scheduling problem: A column generation and constraint programming approach	Yes	[504]	2022	European Journal of Operational Research	16	4	31	1429	1548
ArtiguesHQT21 ArtiguesHQT21	C. Artigues, E. Hebrard, A. Quilliot, H. Toussaint	Multi-Mode RCPSP with Safety Margin Maximization: Models and Algorithms	Yes	[32]	2021	ICORES 2021	8	0	0	342	679
Polo-MejiaALB20 Polo-MejiaALB20	O. Polo-Mejía, C. Artigues, P. Lopez, V. Basini	Mixed-integer/linear and constraint programming approaches for activity scheduling in a nuclear research facility	Yes	[505]	2020	International Journal of Production Research	18	8	23	1430	1581
NattafHKAL19 NattafHKAL19	M. Nattaf, M. Horváth, T. Kis, C. Artigues, P. Lopez	Polyhedral results and valid inequalities for the continuous energy-constrained scheduling problem	Yes	[468]	2019	Discret. Appl. Math.	16	5	12	1413	1594
NattafAL17 NattafAL17	M. Nattaf, C. Artigues, P. Lopez	Cumulative scheduling with variable task profiles and concave piecewise linear processing rate functions	Yes	[465]	2017	Constraints An Int. J.	18	5	10	1410	1624
NattafALR16 NattafALR16	M. Nattaf, C. Artigues, P. Lopez, D. Rivreau	Energetic reasoning and mixed-integer linear programming for scheduling with a continuous resource and linear efficiency functions	Yes	[466]	2016	OR Spectr.	34	10	15	1411	1636
NattafAL15 NattafAL15	M. Nattaf, C. Artigues, P. Lopez	A hybrid exact method for a scheduling problem with a continuous resource and energy constraints	Yes	[464]	2015	Constraints An Int. J.	21	14	13	1409	1646
SialaAH15 SialaAH15	M. Siala, C. Artigues, E. Hebrard	Two Clause Learning Approaches for Disjunctive Scheduling	Yes	[555]	2015	CP 2015	10	4	17	580	779
SimoninAHL15 SimoninAHL15	G. Simonin, C. Artigues, E. Hebrard, P. Lopez	Scheduling scientific experiments for comet exploration	Yes	[557]	2015	Constraints An Int. J.	23	4	5	1451	1649
SimoninAHL12 SimoninAHL12	G. Simonin, C. Artigues, E. Hebrard, P. Lopez	Scheduling Scientific Experiments on the Rosetta/Philae Mission	Yes	[556]	2012	CP 2012	15	3	8	581	820
NeronABCDD06 NeronABCDD06	E. Néron, C. Artigues, P. Baptiste, J. Carlier, J. Damay, S. Demassey, P. Laborie	Lower Bounds for Resource Constrained Project Scheduling Problem	No	[483]	2006	Perspectives in Modern Project Scheduling	null	3	34	No	n/a
DemasseyAM05 DemasseyAM05	S. Demassey, C. Artigues, P. Michelon	Constraint-Propagation-Based Cutting Planes: An Application to the Resource-Constrained Project Scheduling Problem	Yes	[177]	2005	INFORMS Journal on Computing	18	43	25	1304	1728
ArtiguesBF04 ArtiguesBF04	C. Artigues, S. Belmokhtar, D. Feillet	A New Exact Solution Algorithm for the Job Shop Problem with Sequence-Dependent Setup Times	Yes	[30]	2004	CPAIOR 2004	13	16	9	341	909
ArtiguesR00 ArtiguesR00	C. Artigues, F. Roubellat	A polynomial activity insertion algorithm in a multi-resource schedule with cumulative constraints and multiple modes	Yes	[33]	2000	European Journal of Operational Research	20	84	3	1257	1746

D.10 15 Works by Pierre Schaus

Table 34: Works from bibtex (Total 15)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
CauwelaertDS20 CauwelaertDS20	Sasha Van Cauwelaert, C. Dejemeppe, P. Schaus	An Efficient Filtering Algorithm for the Unary Resource Constraint with Transition Times and Optional Activities	Yes	[143]	2020	Journal of Scheduling	19	2	21	1295	1573
ThomasKS20 ThomasKS20	C. Thomas, R. Kameugne, P. Schaus	Insertion Sequence Variables for Hybrid Routing and Scheduling Problems	Yes	[588]	2020	CPAIOR 2020	18	0	16	599	697
HoundjiSW19 HoundjiSW19	Vinasétan Ratheil Houndji, P. Schaus, Laurence A. Wolsey	The item dependent stockingcost constraint	Yes	[318]	2019	Constraints An Int. J.	27	0	17	1353	1592
CappartTSR18 CappartTSR18	Q. Cappart, C. Thomas, P. Schaus, L. Rousseau	A Constraint Programming Approach for Solving Patient Transportation Problems	Yes	[131]	2018	CP 2018	17	6	31	391	719
CauwelaertLS18 CauwelaertLS18	Sascha Van Cauwelaert, M. Lombardi, P. Schaus	How efficient is a global constraint in practice? - A fair experimental framework	Yes	[142]	2018	Constraints An Int. J.	36	2	39	1296	1606
CappartS17 CappartS17	Q. Cappart, P. Schaus	Rescheduling Railway Traffic on Real Time Situations Using Time-Interval Variables	Yes	[130]	2017	CPAIOR 2017	16	2	28	390	733
CauwelaertDMS16 CauwelaertDMS16	Sascha Van Cauwelaert, C. Dejemeppe, J. Monette, P. Schaus	Efficient Filtering for the Unary Resource with Family-Based Transition Times	Yes	[141]	2016	CP 2016	16	1	12	395	750
DejemeppeCS15 DejemeppeCS15	C. Dejemeppe, Sascha Van Cauwelaert, P. Schaus	The Unary Resource with Transition Times	Yes	[174]	2015	CP 2015	16	5	11	409	767
GayHLS15 GayHLS15	S. Gay, R. Hartert, C. Lecoutre, P. Schaus	Conflict Ordering Search for Scheduling Problems	Yes	[231]	2015	CP 2015	9	20	15	432	769
GayHS15 GayHS15	S. Gay, R. Hartert, P. Schaus	Simple and Scalable Time-Table Filtering for the Cumulative Constraint	Yes	[232]	2015	CP 2015	9	10	9	433	770
GayHS15a GayHS15a	S. Gay, R. Hartert, P. Schaus	Time-Table Disjunctive Reasoning for the Cumulative Constraint	Yes	[233]	2015	CPAIOR 2015	16	5	12	434	771
GaySS14 GaySS14	S. Gay, P. Schaus, Vivian De Smedt	Continuous Casting Scheduling with Constraint Programming	Yes	[234]	2014	CP 2014	15	7	11	435	792
HoundjiSWD14 HoundjiSWD14	Vinasétan Ratheil Houndji, P. Schaus, Laurence A. Wolsey, Y. Deville	The StockingCost Constraint	Yes	[319]	2014	CP 2014	16	5	7	475	793
SchausHMCMD11 SchausHMCMD11	P. Schaus, Pascal Van Hentenryck, J. Monette, C. Coffrin, L. Michel, Y. Deville	Solving Steel Mill Slab Problems with constraint-based techniques: CP, LNS, and CBLS	Yes	[533]	2011	Constraints An Int. J.	23	14	5	1443	1688
SchausD08 SchausD08	P. Schaus, Y. Deville	A Global Constraint for Bin-Packing with Precedences: Application to the Assembly Line Balancing Problem	Yes	[532]	2008	AAAI 2008	6	0	0	571	868

D.11 15 Works by Helmut Simonis

Table 35: Works from bibtex (Total 15)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
ArmstrongGOS22	E. Armstrong, M. Garraffa, B. O'Sullivan, H. Simonis	A Two-Phase Hybrid Approach for the Hybrid Flexible Flowshop with Transportation Times	Yes	[27]	2022	CPAIOR 2022	13	0	14	339	661
ArmstrongGOS21	E. Armstrong, M. Garraffa, B. O'Sullivan, H. Simonis	The Hybrid Flexible Flowshop with Transportation Times	Yes	[26]	2021	CP 2021	18	1	0	338	678
AntunesABD20	M. Antunes, V. Armant, Kenneth N. Brown, Daniel A. Desmond, G. Escamocher, A. George, D. Grimes, M. O'Keeffe, Y. Lin, B. O'Sullivan, C. Ozturk, L. Quesada, M. Siala, H. Simonis, N. Wilson	Assigning and Scheduling Service Visits in a Mixed Urban/Rural Setting	Yes	[20]	2020	Int. J. Artif. Intell. Tools	31	0	16	1255	1569
AntunesABD18	M. Antunes, V. Armant, Kenneth N. Brown, Daniel A. Desmond, G. Escamocher, A. George, D. Grimes, M. O'Keeffe, Y. Lin, B. O'Sullivan, C. Ozturk, L. Quesada, M. Siala, H. Simonis, N. Wilson	Assigning and Scheduling Service Visits in a Mixed Urban/Rural Setting	Yes	[19]	2018	ICTAI 2018	8	1	24	334	715
HurleyOS16	B. Hurley, B. O'Sullivan, H. Simonis	ICON Loop Energy Show Case	Yes	[321]	2016	Data Mining and Constraint Programming - Foundations of a Cross-Disciplinary Approach	14	0	16	2852	n/a
GrimesIOS14	D. Grimes, G. Ifrim, B. O'Sullivan, H. Simonis	Analyzing the impact of electricity price forecasting on energy cost-aware scheduling	Yes	[262]	2014	Sustain. Comput. Informatics Syst.	16	6	7	1329	1653
IfrimOS12	G. Ifrim, B. O'Sullivan, H. Simonis	Properties of Energy-Price Forecasts for Scheduling	Yes	[322]	2012	CP 2012	16	6	20	476	815
SimonisH11	H. Simonis, T. Hadzic	A Resource Cost Aware Cumulative	Yes	[564]	2011	CSCLP 2011	14	3	9	586	834
Simonis07	H. Simonis	Models for Global Constraint Applications	Yes	[561]	2007	Constraints An Int. J.	30	10	17	1452	1722
SimonisCK00	H. Simonis, P. Charlier, P. Kay	Constraint Handling in an Integrated Transportation Problem	Yes	[562]	2000	IEEE Intell. Syst.	7	11	5	1453	1754
Simonis99	H. Simonis	Building Industrial Applications with Constraint Programming	Yes	[560]	1999	CCL'99 1999	39	5	18	584	945
Simonis95	H. Simonis	The CHIP System and Its Applications	Yes	[559]	1995	CP 1995	4	7	3	582	961
Simonis95a	H. Simonis	Application Development with the CHIP System	Yes	[558]	1995	CONTESSA 1995	21	1	12	583	962
SimonisC95	H. Simonis, T. Cornelissens	Modelling Producer/Consumer Constraints	Yes	[563]	1995	CP 1995	14	17	8	585	963
DincbasSH90	M. Dincbas, H. Simonis, Pascal Van Hentenryck	Solving Large Combinatorial Problems in Logic Programming	Yes	[185]	1990	J. Log. Program.	19	86	9	1305	1774

D.12 13 Works by Nicolas Beldiceanu

Table 36: Works from bibtex (Total 13)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
Madi-WambaLOBM17 Madi-WambaLOBM17 Madi-WambaB16 Madi-WambaB16	G. Madi-Wamba, Y. Li, A. Orgerie, N. Beldiceanu, J. Menaud G. Madi-Wamba, N. Beldiceanu	Green Energy Aware Scheduling Problem in Virtualized Datacenters The TaskIntersection Constraint	Yes	[420]	2017	ICPADS 2017	8	1	8	527	740
LetortCB15 LetortCB15	A. Letort, M. Carlsson, N. Beldiceanu	Synchronized sweep algorithms for scalable scheduling constraints	Yes	[387]	2015	Constraints An Int. J.	52	2	14	1378	1645
LetortCB13 LetortCB13	A. Letort, M. Carlsson, N. Beldiceanu	A Synchronized Sweep Algorithm for the <i>k-dimensional cumulative</i> Constraint	Yes	[386]	2013	CPAIOR 2013	16	3	10	508	803
LetortBC12 LetortBC12	A. Letort, N. Beldiceanu, M. Carlsson	A Scalable Sweep Algorithm for the cumulative Constraint	Yes	[385]	2012	CP 2012	16	18	12	507	816
BeldiceanuCDP11 BeldiceanuCDP11	N. Beldiceanu, M. Carlsson, S. Demasse, E. Poder	New filtering for the <i>cumulative</i> constraint in the context of non-overlapping rectangles	Yes	[80]	2011	Annals of Operations Research	24	8	8	1277	1679
ClercPB11 ClercPB11	Alexis De Clercq, T. Petit, N. Beldiceanu, N. Jussien	Filtering Algorithms for Discrete Cumulative Problems with Overloads of Resource	Yes	[152]	2011	CP 2011	16	3	11	401	826
BeldiceanuCP08 BeldiceanuCP08	N. Beldiceanu, M. Carlsson, E. Poder	New Filtering for the cumulative Constraint in the Context of Non-Overlapping Rectangles	Yes	[81]	2008	CPAIOR 2008	15	8	9	364	860
PoderB08 PoderB08	E. Poder, N. Beldiceanu	Filtering for a Continuous Multi-Resources cumulative Constraint with Resource Consumption and Production	Yes	[502]	2008	ICAPS 2008	8	0	0	558	867
BeldiceanuP07 BeldiceanuP07	N. Beldiceanu, E. Poder	A Continuous Multi-resources <i>cumulative</i> Constraint with Positive-Negative Resource Consumption-Production	Yes	[82]	2007	CPAIOR 2007	15	4	7	365	871
PoderBS04 PoderBS04	E. Poder, N. Beldiceanu, E. Sanlaville	Computing a lower approximation of the compulsory part of a task with varying duration and varying resource consumption	Yes	[503]	2004	European Journal of Operational Research	16	7	8	1428	1732
BeldiceanuC02 BeldiceanuC02	N. Beldiceanu, M. Carlsson	A New Multi-resource cumulatives Constraint with Negative Heights	Yes	[79]	2002	CP 2002	17	33	9	363	930
AggounB93 AggounB93	A. Aggoun, N. Beldiceanu	Extending CHIP in order to solve complex scheduling and placement problems	Yes	[9]	1993	Mathematical and Computer Modelling	17	187	11	1252	1772

D.13 13 Works by Luca Benini

Table 37: Works from bibtex (Total 13)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
BorghesiBLMB18	A. Borghesi, A. Bartolini, M. Lombardi, M. Milano, L. Benini	Scheduling-based power capping in high performance computing systems	Yes	[116]	2018	Sustain. Comput. Informatics Syst.	13	11	22	1289	1605
BridiBLMB16	T. Bridi, A. Bartolini, M. Lombardi, M. Milano, L. Benini	A Constraint Programming Scheduler for Heterogeneous High-Performance Computing Machines	Yes	[121]	2016	IEEE Trans. Parallel Distributed Syst.	14	17	22	1291	1630
BridiLBBM16	T. Bridi, M. Lombardi, A. Bartolini, L. Benini, M. Milano	DARDIS: Distributed And Randomized DIspatching and Scheduling	Yes	[122]	2016	ECAI 2016	2	0	0	387	748
BonfiettiLBM14	A. Bonfietti, M. Lombardi, L. Benini, M. Milano	CROSS cyclic resource-constrained scheduling solver	Yes	[109]	2014	Artificial Intelligence Transactions on Computers	28	8	15	1288	1652
BonfiettiLBM14	M. Lombardi, M. Milano, L. Benini	Robust Scheduling of Task Graphs under Execution Time Uncertainty	Yes	[409]	2013	IEEE Transactions on Computers	14	28	29	1385	1662
LombardiMB13	A. Bonfietti, M. Lombardi, L. Benini, M. Milano	Global Cyclic Cumulative Constraint	Yes	[108]	2012	CPAIOR 2012	16	2	11	379	811
BonfiettiLBM12	L. Benini, M. Lombardi, M. Milano, M. Ruggiero	Optimal resource allocation and scheduling for the CELL BE platform	Yes	[90]	2011	Annals of Operations Research	27	18	16	1280	1680
BeniniLMR11	A. Bonfietti, M. Lombardi, L. Benini, M. Milano	A Constraint Based Approach to Cyclic RCPSP	Yes	[107]	2011	CP 2011	15	3	14	378	824
BonfiettiLBM11	M. Lombardi, A. Bonfietti, M. Milano, L. Benini	Precedence Constraint Posting for Cyclic Scheduling Problems	Yes	[402]	2011	CPAIOR 2011	17	1	13	519	833
LombardiBMB11	M. Lombardi, M. Milano, M. Ruggiero, L. Benini	Stochastic allocation and scheduling for conditional task graphs in multi-processor systems-on-chip	Yes	[410]	2010	Journal of Scheduling	31	24	41	1386	1696
LombardiMRB10	M. Ruggiero, D. Bertozzi, L. Benini, M. Milano, A. Andrei	Reducing the Abstraction and Optimality Gaps in the Allocation and Scheduling for Variable Voltage/Frequency MPSoC Platforms	Yes	[527]	2009	IEEE Trans. Comput. Aided Des. Integr. Circuits Syst.	14	9	27	1439	1708
RuggieroBBMA09	L. Benini, M. Lombardi, M. Milano, M. Ruggiero	A Constraint Programming Approach for Allocation and Scheduling on the CELL Broadband Engine	Yes	[89]	2008	CP 2008	15	7	23	369	861
BeniniLMR08	L. Benini, D. Bertozzi, A. Guerri, M. Milano	Allocation, Scheduling and Voltage Scaling on Energy Aware MPSoCs	Yes	[88]	2006	CPAIOR 2006	15	18	10	368	882
BeniniBGM06											
BeniniBGM06											

D.14 12 Works by Philippe Laborie

Table 38: Works from bibtex (Total 12)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
LunardiBLRV20 LunardiBLRV20	Willian T. Lunardi, Ernesto G. Birgin, P. Laborie, Débora P. Ronconi, H. Voos	Mixed Integer linear programming and constraint programming models for the online printing shop scheduling problem	Yes	[415]	2020	Computers Operations Research	20	30	18	1390	1577
Laborie18a Laborie18a	P. Laborie	An Update on the Comparison of MIP, CP and Hybrid Approaches for Mixed Resource Allocation and Scheduling	Yes	[373]	2018	CPAIOR 2018	9	18	10	503	724
LaborieRSV18 LaborieRSV18	P. Laborie, J. Rogerie, P. Shaw, P. Vilím	IBM ILOG CP optimizer for scheduling - 20+ years of scheduling with constraints at IBM/ILOG	Yes	[374]	2018	Constraints An Int. J.	41	148	35	1375	1615
MelgarejoLS15 MelgarejoLS15	P. Aguiar-Melgarejo, P. Laborie, C. Solnon	A Time-Dependent No-Overlap Constraint: Application to Urban Delivery Problems	Yes	[11]	2015	CPAIOR 2015	17	14	17	533	775
VilimLS15 VilimLS15	P. Vilím, P. Laborie, P. Shaw	Failure-Directed Search for Constraint-Based Scheduling	Yes	[623]	2015	CPAIOR 2015	17	31	19	620	780
BidotVLB09 BidotVLB09	J. Bidot, T. Vidal, P. Laborie, J. Christopher Beck	A theoretic and practical framework for scheduling in a stochastic environment	Yes	[94]	2009	Journal of Scheduling	30	58	20	1282	1701
Laborie09 Laborie09	P. Laborie	IBM ILOG CP Optimizer for Detailed Scheduling Illustrated on Three Problems	Yes	[372]	2009	CPAIOR 2009	15	53	2	502	851
BaptisteLPN06 BaptisteLPN06	P. Baptiste, P. Laborie, Claude Le Pape, W. Nuijten	Constraint-Based Scheduling and Planning	No	[47]	2006	Handbook of Constraint Programming	39	30	25	No	n/a
NeronABCDD06 NeronABCDD06	E. Néron, C. Artigues, P. Baptiste, J. Carlier, J. Damay, S. Demasse, P. Laborie	Lower Bounds for Resource Constrained Project Scheduling Problem	No	[483]	2006	Perspectives in Modern Project Scheduling	null	3	34	No	n/a
GodardLN05 GodardLN05	D. Godard, P. Laborie, W. Nuijten	Randomized Large Neighborhood Search for Cumulative Scheduling	Yes	[247]	2005	ICAPS 2005	9	0	0	444	898
Laborie03 Laborie03	P. Laborie	Algorithms for propagating resource constraints in AI planning and scheduling: Existing approaches and new results	Yes	[371]	2003	Artificial Intelligence	38	128	10	1374	1736
FocacciLN00 FocacciLN00	F. Focacci, P. Laborie, W. Nuijten	Solving Scheduling Problems with Setup Times and Alternative Resources	Yes	[216]	2000	AIPS 2000	10	0	0	423	942

D.15 11 Works by Philippe Baptiste

Table 39: Works from bibtex (Total 11)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
BaptisteB18 BaptisteB18	P. Baptiste, N. Bonifas	Redundant cumulative constraints to compute preemptive bounds	Yes	[46]	2018	Discret. Math. Appl.	10	3	13	1263	1604
Baptiste09 Baptiste09	P. Baptiste	Constraint-Based Schedulers, Do They Really Work?	Yes	[45]	2009	CP 2009	1	0	0	348	849
BaptisteLPN06 BaptisteLPN06	P. Baptiste, P. Laborie, Claude Le Pape, W. Nuijten	Constraint-Based Scheduling and Planning	No	[47]	2006	Handbook of Constraint Programming	39	30	25	No	n/a
NeronABCDD06 NeronABCDD06	E. Néron, C. Artigues, P. Baptiste, J. Carlier, J. Damay, S. Demasse, P. Laborie	Lower Bounds for Resource Constrained Project Scheduling Problem	No	[483]	2006	Perspectives in Modern Project Scheduling	null	3	34	No	n/a
ArtiouchineB05 ArtiouchineB05	K. Artiouchine, P. Baptiste	Inter-distance Constraint: An Extension of the All-Different Constraint for Scheduling Equal Length Jobs	Yes	[34]	2005	CP 2005	15	3	11	343	890
Baptiste02 Baptiste02	P. Baptiste	Résultats de complexité et programmation par contraintes pour l'ordonnancement	Yes	[44]	2002	Université de Technologie de Compiègne	237	0	0	2806	n/a
BaptistePN01 BaptistePN01	P. Baptiste, Claude Le Pape, W. Nuijten	Constraint-Based Scheduling	No	[50]	2001	Book	null	296	0	No	n/a
BaptisteP00 BaptisteP00	P. Baptiste, Claude Le Pape	Constraint Propagation and Decomposition Techniques for Highly Disjunctive and Highly Cumulative Project Scheduling Problems	Yes	[49]	2000	Constraints An Int. J.	21	46	0	1264	1747
PapaB98 PapaB98	Claude Le Pape, P. Baptiste	Resource Constraints for Preemptive Job-shop Scheduling	Yes	[494]	1998	Constraints An Int. J.	25	14	0	1425	1762
BaptisteP97 BaptisteP97	P. Baptiste, Claude Le Pape	Constraint Propagation and Decomposition Techniques for Highly Disjunctive and Highly Cumulative Project Scheduling Problems	Yes	[48]	1997	CP 1997	15	8	10	350	951
PapeB97 PapeB97	Claude Le Pape, P. Baptiste	A Constraint Programming Library for Preemptive and Non-Preemptive Scheduling	No	[493]	1997	PACT 1997	20	0	0	No	955

D.16 11 Works by Roman Barták

Table 40: Works from bibtex (Total 11)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
SvancaraB22 SvancaraB22	J. Svancara, R. Barták	Tackling Train Routing via Multi-agent Pathfinding and Constraint-based Scheduling	Yes	[571]	2022	ICAART 2022	8	0	0	589	671
JelinekB16 JelinekB16	J. Jelínek, R. Barták	Using Constraint Logic Programming to Schedule Solar Array Operations on the International Space Station	Yes	[327]	2016	PADL 2016	10	0	5	477	755
BartakV15 BartakV15	R. Barták, M. Vlk	Reactive Recovery from Machine Breakdown in Production Scheduling with Temporal Distance and Resource Constraints	Yes	[59]	2015	ICAART 2015	12	0	0	354	764
Bartak14 Bartak14	R. Barták	Planning and Scheduling	No	[55]	2014	Computing Handbook, Third Edition: Computer Science and Software Engineering	null	0	0	No	n/a
BartakS11 BartakS11	R. Barták, Miguel A. Salido	Constraint satisfaction for planning and scheduling problems	Yes	[57]	2011	Constraints An Int. J.	5	17	3	1266	1677
BartakCS10 BartakCS10	R. Barták, O. Cepek, P. Surynek	Discovering implied constraints in precedence graphs with alternatives	Yes	[56]	2010	Annals of Operations Research	31	2	9	1265	1692
BartakSR10 BartakSR10	R. Barták, Miguel A. Salido, F. Rossi	New trends in constraint satisfaction, planning, and scheduling: a survey	Yes	[58]	2010	Knowl. Eng. Rev.	31	28	47	1267	1693
VilimBC05 VilimBC05	P. Vilím, R. Barták, O. Cepek	Extension of $O(n \log n)$ Filtering Algorithms for the Unary Resource Constraint to Optional Activities	Yes	[622]	2005	Constraints An Int. J.	23	21	5	1469	1730
VilimBC04 VilimBC04	P. Vilím, R. Barták, O. Cepek	Unary Resource Constraint with Optional Activities	Yes	[621]	2004	CP 2004	15	13	4	619	918
Bartak02 Bartak02	R. Barták	Visopt ShopFloor: On the Edge of Planning and Scheduling	Yes	[54]	2002	CP 2002	16	6	4	352	928
Bartak02a Bartak02a	R. Barták	Visopt ShopFloor: Going Beyond Traditional Scheduling	Yes	[53]	2002	ERCIM/CologNet 2002	15	1	9	353	929

D.17 11 Works by Petr Vilím

Table 41: Works from bibtex (Total 11)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
LaborieRSV18 LaborieRSV18	P. Laborie, J. Rogerie, P. Shaw, P. Vilím	IBM ILOG CP optimizer for scheduling - 20+ years of scheduling with constraints at IBM/ILOG	Yes	[374]	2018	Constraints An Int. J.	41	148	35	1375	1615
VilimLS15 VilimLS15	P. Vilím, P. Laborie, P. Shaw	Failure-Directed Search for Constraint-Based Scheduling	Yes	[623]	2015	CPAIOR 2015	17	31	19	620	780
Vilim11 Vilim11	P. Vilím	Timetable Edge Finding Filtering Algorithm for Discrete Cumulative Resources	Yes	[620]	2011	CPAIOR 2011	16	28	6	618	835
Vilim09 Vilim09	P. Vilím	Edge Finding Filtering Algorithm for Discrete Cumulative Resources in $O(kn \log n)$	Yes	[618]	2009	CP 2009	15	25	4	616	856
Vilim09a Vilim09a	P. Vilím	Max Energy Filtering Algorithm for Discrete Cumulative Resources	Yes	[619]	2009	CPAIOR 2009	15	13	4	617	857
Vilim05 Vilim05	P. Vilím	Computing Explanations for the Unary Resource Constraint	Yes	[617]	2005	CPAIOR 2005	14	5	8	615	905
VilimBC05 VilimBC05	P. Vilím, R. Barták, O. Cepek	Extension of $O(n \log n)$ Filtering Algorithms for the Unary Resource Constraint to Optional Activities	Yes	[622]	2005	Constraints An Int. J.	23	21	5	1469	1730
Vilim04 Vilim04	P. Vilím	$O(n \log n)$ Filtering Algorithms for Unary Resource Constraint	Yes	[616]	2004	CPAIOR 2004	13	22	5	614	917
VilimBC04 VilimBC04	P. Vilím, R. Barták, O. Cepek	Unary Resource Constraint with Optional Activities	Yes	[621]	2004	CP 2004	15	13	4	619	918
Vilim03 Vilim03	P. Vilím	Computing Explanations for Global Scheduling Constraints	Yes	[615]	2003	CP 2003	1	1	1	613	926
Vilim02 Vilim02	P. Vilím	Batch Processing with Sequence Dependent Setup Times	Yes	[614]	2002	CP 2002	1	6	1	612	936

D.18 11 Works by Mark Wallace

Table 42: Works from bibtex (Total 11)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
WallaceY20 WallaceY20	M. Wallace, N. Yorke-Smith	A new constraint programming model and solving for the cyclic hoist scheduling problem	Yes	[629]	2020	Constraints An Int. J.	19	5	18	1472	1585
He0GLW18 He0GLW18	S. He, M. Wallace, G. Gange, A. Liebman, C. Wilson	A Fast and Scalable Algorithm for Scheduling Large Numbers of Devices Under Real-Time Pricing	Yes	[286]	2018	CP 2018	18	6	26	458	721
ThiruvadyWGS14 ThiruvadyWGS14	Dhananjay R. Thiruvady, M. Wallace, H. Gu, A. Schutt	A Lagrangian relaxation and ACO hybrid for resource constrained project scheduling with discounted cash flows	Yes	[587]	2014	J. Heuristics	34	19	18	1460	1658
MilanoW09 MilanoW09	M. Milano, M. Wallace	Integrating Operations Research in Constraint Programming	Yes	[443]	2009	Annals of Operations Research	40	34	46	1401	1706
SchuttFSW09 SchuttFSW09	A. Schutt, T. Feydy, Peter J. Stuckey, M. Wallace	Why Cumulative Decomposition Is Not as Bad as It Sounds	Yes	[540]	2009	CP 2009	16	34	11	575	854
MilanoW06 MilanoW06	M. Milano, M. Wallace	Integrating operations research in constraint programming	Yes	[442]	2006	4OR	45	18	46	1400	1725
Wallace06 Wallace06	M. Wallace	Hybrid Algorithms in Constraint Programming	Yes	[628]	2006	CSCLP 2006	32	1	35	621	888
SakkoutW00 SakkoutW00	Hani El Sakkout, M. Wallace	Probe Backtrack Search for Minimal Perturbation in Dynamic Scheduling	Yes	[531]	2000	Constraints An Int. J.	30	73	0	1442	1752
RodosekW98 RodosekW98	R. Rodosek, M. Wallace	A Generic Model and Hybrid Algorithm for Hoist Scheduling Problems	Yes	[520]	1998	CP 1998	15	19	10	568	950
Wallace96 Wallace96	M. Wallace	Practical Applications of Constraint Programming	Yes	[627]	1996	Constraints An Int. J.	30	87	55	1471	1769
Wallace94 Wallace94	M. Wallace	Applying Constraints for Scheduling	No	[626]	1994	Constraint Programming 1994	19	0	0	No	967

D.19 10 Works by Alessio Bonfietti

Table 43: Works from bibtex (Total 10)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
Bonfietti16 Bonfietti16	A. Bonfietti	A constraint programming scheduling solver for the MPOpt programming environment	Yes	[106]	2016	Intelligenza Artificiale	13	0	19	1287	1629
BonfiettiZLM16 BonfiettiZLM16	A. Bonfietti, A. Zanarini, M. Lombardi, M. Milano	The Multirate Resource Constraint	Yes	[113]	2016	CP 2016	17	0	11	383	746
LombardiBM15 LombardiBM15	M. Lombardi, A. Bonfietti, M. Milano	Deterministic Estimation of the Expected Makespan of a POS Under Duration Uncertainty	Yes	[401]	2015	CP 2015	16	0	8	518	774
BonfiettiLBM14 BonfiettiLBM14	A. Bonfietti, M. Lombardi, L. Benini, M. Milano	CROSS cyclic resource-constrained scheduling solver	Yes	[109]	2014	Artificial Intelligence	28	8	15	1288	1652
BonfiettiLM14 BonfiettiLM14	A. Bonfietti, M. Lombardi, M. Milano	Disregarding Duration Uncertainty in Partial Order Schedules? Yes, We Can!	Yes	[111]	2014	CPAIOR 2014	16	3	12	381	786
BonfiettiLM13 BonfiettiLM13	A. Bonfietti, M. Lombardi, M. Milano	De-Cycling Cyclic Scheduling Problems	Yes	[110]	2013	ICAPS 2013	5	0	0	380	797
BonfiettiLBM12 BonfiettiLBM12	A. Bonfietti, M. Lombardi, L. Benini, M. Milano	Global Cyclic Cumulative Constraint	Yes	[108]	2012	CPAIOR 2012	16	2	11	379	811
BonfiettiM12 BonfiettiM12	A. Bonfietti, M. Milano	A Constraint-based Approach to Cyclic Resource-Constrained Scheduling Problem	Yes	[112]	2012	DC SIAAI 2012	3	0	0	382	812
BonfiettiLBM11 BonfiettiLBM11	A. Bonfietti, M. Lombardi, L. Benini, M. Milano	A Constraint Based Approach to Cyclic RCPSP	Yes	[107]	2011	CP 2011	15	3	14	378	824
LombardiBMB11 LombardiBMB11	M. Lombardi, A. Bonfietti, M. Milano, L. Benini	Precedence Constraint Posting for Cyclic Scheduling Problems	Yes	[402]	2011	CPAIOR 2011	17	1	13	519	833

D.20 10 Works by Margaux Nattaf

Table 44: Works from bibtex (Total 10)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
BonninMNE24 BonninMNE24 PenzDN23 PenzDN23	C. Bonnin, A. Malapert, M. Nattaf, M. Espinouse L. Penz, S. Dauzère-Pérès, M. Nattaf	Toward a Global Constraint for Minimizing the Flowtime Minimizing the sum of completion times on a single machine with health index and flexible maintenance operations	Yes	[114]	2024	ICORES 2024	12	0	0	384	645
NattafM20 NattafM20	M. Nattaf, A. Malapert	Filtering Rules for Flow Time Minimization in a Parallel Machine Scheduling Problem	Yes	[469]	2020	CP 2020	16	0	6	545	695
MalapertN19 MalapertN19	A. Malapert, M. Nattaf	A New CP-Approach for a Parallel Machine Scheduling Problem with Time Constraints on Machine Qualifications	Yes	[425]	2019	CPAIOR 2019	17	1	7	530	710
NattafDYW19 NattafDYW19	M. Nattaf, S. Dauzère-Pérès, C. Yugma, C. Wu	Parallel machine scheduling with time constraints on machine qualifications	Yes	[467]	2019	Computers Operations Research	16	14	21	1412	1593
NattafHKAL19 NattafHKAL19	M. Nattaf, M. Horváth, T. Kis, C. Artigues, P. Lopez	Polyhedral results and valid inequalities for the continuous energy-constrained scheduling problem	Yes	[468]	2019	Discret. Appl. Math.	16	5	12	1413	1594
NattafAL17 NattafAL17	M. Nattaf, C. Artigues, P. Lopez	Cumulative scheduling with variable task profiles and concave piecewise linear processing rate functions	Yes	[465]	2017	Constraints An Int. J.	18	5	10	1410	1624
Nattaf16 Nattaf16	M. Nattaf	Ordonnancement sous contraintes d'énergie	Yes	[463]	2016	UPS Toulouse - Université Toulouse 3 Paul Sabatier	199	0	0	2828	n/a
NattafALR16 NattafALR16	M. Nattaf, C. Artigues, P. Lopez, D. Rivreau	Energetic reasoning and mixed-integer linear programming for scheduling with a continuous resource and linear efficiency functions	Yes	[466]	2016	OR Spectr.	34	10	15	1411	1636
NattafAL15 NattafAL15	M. Nattaf, C. Artigues, P. Lopez	A hybrid exact method for a scheduling problem with a continuous resource and energy constraints	Yes	[464]	2015	Constraints An Int. J.	21	14	13	1409	1646

D.21 10 Works by Pascal Van Hentenryck

Table 45: Works from bibtex (Total 10)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
FontaineMH16 FontaineMH16	D. Fontaine, Laurent D. Michel, Pascal Van Hentenryck	Parallel Composition of Scheduling Solvers	Yes	[217]	2016	CPAIOR 2016	11	3	0	424	751
EvenSH15 EvenSH15	C. Even, A. Schutt, Pascal Van Hentenryck	A Constraint Programming Approach for Non-preemptive Evacuation Scheduling	Yes	[204]	2015	CP 2015	18	3	12	422	768
EvenSH15a EvenSH15a	C. Even, A. Schutt, Pascal Van Hentenryck	A Constraint Programming Approach for Non-Preemptive Evacuation Scheduling	Yes	[205]	2015	CoRR	16	0	0	1311	1641
SchausHMCMD11 SchausHMCMD11	P. Schaus, Pascal Van Hentenryck, J. Monette, C. Coffrin, L. Michel, Y. Deville	Solving Steel Mill Slab Problems with constraint-based techniques: CP, LNS, and CBLS	Yes	[533]	2011	Constraints An Int. J.	23	14	5	1443	1688
MonetteDH09 MonetteDH09	J. Monette, Y. Deville, Pascal Van Hentenryck	Just-In-Time Scheduling with Constraint Programming	Yes	[447]	2009	ICAPS 2009	8	0	0	537	853
DoomsH08 DoomsH08	G. Dooms, Pascal Van Hentenryck	Gap Reduction Techniques for Online Stochastic Project Scheduling	Yes	[187]	2008	CPAIOR 2008	16	1	2	415	862
HentenryckM08 HentenryckM08	Pascal Van Hentenryck, L. Michel	The Steel Mill Slab Design Problem Revisited	Yes	[301]	2008	CPAIOR 2008	5	13	3	466	863
MercierH08 MercierH08	L. Mercier, Pascal Van Hentenryck	Edge Finding for Cumulative Scheduling	Yes	[438]	2008	INFORMS Journal on Computing	21	32	5	1399	1716
HentenryckM04 HentenryckM04	Pascal Van Hentenryck, L. Michel	Scheduling Abstractions for Local Search	Yes	[300]	2004	CPAIOR 2004	16	12	14	465	911
DincbasSH90 DincbasSH90	M. Dincbas, H. Simonis, Pascal Van Hentenryck	Solving Large Combinatorial Problems in Logic Programming	Yes	[185]	1990	J. Log. Program.	19	86	9	1305	1774

D.22 9 Works by Claude Le Pape

Table 46: Works from bibtex (Total 9)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
BaptisteLPN06 BaptisteLPN06	P. Baptiste, P. Laborie, Claude Le Pape, W. Nuijten	Constraint-Based Scheduling and Planning	No	[47]	2006	Handbook of Constraint Programming	39	30	25	No	n/a
DannaP04 DannaP04	E. Danna, Claude Le Pape	Two Generic Schemes for Efficient and Robust Cooperative Algorithms	No	[162]	2004	Constraints and Integer Programming Book	null	2	34	No	n/a
BaptistePN01 BaptistePN01	P. Baptiste, Claude Le Pape, W. Nuijten	Constraint-Based Scheduling	No	[50]	2001	Constraints An Int. J.	null	296	0	No	n/a
BaptisteP00 BaptisteP00	P. Baptiste, Claude Le Pape	Constraint Propagation and Decomposition Techniques for Highly Disjunctive and Highly Cumulative Project Scheduling Problems	Yes	[49]	2000	J. Heuristics	21	46	0	1264	1747
NuijtenP98 NuijtenP98	W. Nuijten, Claude Le Pape	Constraint-Based Job Shop Scheduling with \sc Ilog Scheduler	Yes	[481]	1998	Constraints An Int. J.	16	42	0	1421	1761
PapaB98 PapaB98	Claude Le Pape, P. Baptiste	Resource Constraints for Preemptive Job-shop Scheduling	Yes	[494]	1998	CP 1997	25	14	0	1425	1762
BaptisteP97 BaptisteP97	P. Baptiste, Claude Le Pape	Constraint Propagation and Decomposition Techniques for Highly Disjunctive and Highly Cumulative Project Scheduling Problems	Yes	[48]	1997	PACT 1997	15	8	10	350	951
PapeB97 PapeB97	Claude Le Pape, P. Baptiste	A Constraint Programming Library for Preemptive and Non-Preemptive Scheduling	No	[493]	1997	Intelligent Systems Engineering	20	0	0	No	955
Pape94 Pape94	Claude Le Pape	Implementation of resource constraints in ILOG SCHEDULE: a library for the development of constraint-based scheduling systems	Yes	[492]	1994		34	98	0	1426	1771

D.23 9 Works by Nysret Musliu

Table 47: Works from bibtex (Total 9)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
LacknerMMWW23	M. Lackner, C. Mrkvicka, N. Musliu, D. Walkiewicz, F. Winter	Exact methods for the Oven Scheduling Problem	Yes	[376]	2023	Constraints An Int. J.	42	0	32	1376	1519
LacknerMMWW23	F. Winter, S. Meiswinkel, N. Musliu, D. Walkiewicz	Modeling and Solving Parallel Machine Scheduling with Contamination Constraints in the Agricultural Industry	Yes	[637]	2022	CP 2022	18	0	0	626	674
WinterMMW22	T. Geibinger, L. Kletzander, M. Krainz, F. Mischek, N. Musliu, F. Winter	Physician Scheduling During a Pandemic	Yes	[236]	2021	CPAIOR 2021	10	0	6	436	682
GeibingerKKMMW21	T. Geibinger, F. Mischek, N. Musliu	Constraint Logic Programming for Real-World Test Laboratory Scheduling	Yes	[239]	2021	AAAI 2021	9	0	0	438	683
GeibingerMM21	M. Lackner, C. Mrkvicka, N. Musliu, D. Walkiewicz, F. Winter	Minimizing Cumulative Batch Processing Time for an Industrial Oven Scheduling Problem	Yes	[375]	2021	CP 2021	18	0	0	504	688
LacknerMMWW21	T. Geibinger, F. Mischek, N. Musliu	Investigating Constraint Programming for Real World Industrial Test Laboratory Scheduling	Yes	[238]	2019	CPAIOR 2019	16	6	15	437	707
GeibingerMM19	T. Geibinger, F. Mischek, N. Musliu	Investigating Constraint Programming and Hybrid Methods for Real World Industrial Test Laboratory Scheduling	Yes	[237]	2019	CoRR	16	0	0	1494	1603
abs-1911-04766	N. Musliu, A. Schutt, Peter J. Stuckey	Solver Independent Rotating Workforce Scheduling	Yes	[457]	2018	CPAIOR 2018	17	7	23	544	725
abs-1911-04766	L. Kletzander, N. Musliu	A Multi-stage Simulated Annealing Algorithm for the Torpedo Scheduling Problem	Yes	[349]	2017	CPAIOR 2017	15	1	9	490	738
MusliuSS18											
MusliuSS18											
KletzanderM17											
KletzanderM17											

D.24 9 Works by Claude-Guy Quimper

Table 48: Works from bibtex (Total 9)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
BoudreaultSLQ22	R. Boudreault, V. Simard, D. Lafond, C. Quimper	A Constraint Programming Approach to Ship Refit Project Scheduling	Yes	[118]	2022	CP 2022	16	0	0	386	662
BoudreaultSLQ22	Y. Ouellet, C. Quimper	A MinCumulative Resource Constraint	Yes	[488]	2022	CPAIOR 2022	17	1	22	552	668
OuelletQ22 OuelletQ22	A. Mercier-Aubin, J. Gaudreault, C. Quimper	Leveraging Constraint Scheduling: A Case Study to the Textile Industry	Yes	[439]	2020	CPAIOR 2020	13	2	13	534	694
Mercier-AubinGQ20	H. Fahimi, Y. Ouellet, C. Quimper	Linear-time filtering algorithms for the disjunctive constraint and a quadratic filtering algorithm for the cumulative not-first not-last	Yes	[207]	2018	Constraints An Int. J.	22	2	20	1312	1607
FahimiOQ18	R. Kameugne, Séverine Betmbe Fetgo, V. Gingras, Y. Ouellet, C. Quimper	Horizontally Elastic Not-First/Not-Last Filtering Algorithm for Cumulative Resource Constraint	Yes	[337]	2018	CPAIOR 2018	17	1	12	482	723
FahimiOQ18	Y. Ouellet, C. Quimper	A $O(n \log^2 n)$ Checker and $O(n^2 \log n)$ Filtering Algorithm for the Energetic Reasoning	Yes	[487]	2018	CPAIOR 2018	18	6	16	551	728
KameugneFGOQ18	V. Gingras, C. Quimper	Generalizing the Edge-Finder Rule for the Cumulative Constraint	Yes	[246]	2016	IJCAI 2016	7	0	0	443	753
GingrasQ16 GingrasQ16	C. Bessiere, E. Hebrard, M. Ménard, C. Quimper, T. Walsh	Buffered Resource Constraint: Algorithms and Complexity	Yes	[93]	2014	CPAIOR 2014	16	1	3	371	784
BessiereHMQW14	P. Ouellet, C. Quimper	Time-Table Extended-Edge-Finding for the Cumulative Constraint	Yes	[486]	2013	CP 2013	16	12	14	550	806
BessiereHMQW14											
OuelletQ13 OuelletQ13											

D.25 9 Works by Tony T. Tran

Table 49: Works from bibtex (Total 9)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
TranPZLDB18 TranPZLDB18	Tony T. Tran, M. Padmanabhan, Peter Yun Zhang, H. Li, Douglas G. Down, J. Christopher Beck	Multi-stage resource-aware scheduling for data centers with heterogeneous servers	Yes	[599]	2018	Journal of Scheduling	17	8	26	1465	1619
TranVNB17 TranVNB17	Tony T. Tran, Tiago Stegun Vaquero, G. Nejat, J. Christopher Beck	Robots in Retirement Homes: Applying Off-the-Shelf Planning and Scheduling to a Team of Assistive Robots	Yes	[601]	2017	J. Artif. Intell. Res.	68	12	0	1466	1627
TranVNB17a TranVNB17a	Tony T. Tran, Tiago Stegun Vaquero, G. Nejat, J. Christopher Beck	Robots in Retirement Homes: Applying Off-the-Shelf Planning and Scheduling to a Team of Assistive Robots (Extended Abstract)	Yes	[602]	2017	IJCAI 2017	5	1	0	607	743
TranAB16 TranAB16	Tony T. Tran, A. Araujo, J. Christopher Beck	Decomposition Methods for the Parallel Machine Scheduling Problem with Setups	Yes	[596]	2016	INFORMS Journal on Computing	13	72	28	1464	1638
TranDRFWOVB16 TranDRFWOVB16	Tony T. Tran, M. Do, Eleanor Gilbert Rieffel, J. Frank, Z. Wang, B. O’Gorman, D. Venturelli, J. Christopher Beck	A Hybrid Quantum-Classical Approach to Solving Scheduling Problems	Yes	[598]	2016	SOCS 2016	9	3	0	605	762
TranWDRFOVB16 TranWDRFOVB16	Tony T. Tran, Z. Wang, M. Do, Eleanor Gilbert Rieffel, J. Frank, B. O’Gorman, D. Venturelli, J. Christopher Beck	Explorations of Quantum-Classical Approaches to Scheduling a Mars Lander Activity Problem	Yes	[603]	2016	AAAI 2016	9	0	0	608	763
TerekhovTDB14 TerekhovTDB14	D. Terekhov, Tony T. Tran, Douglas G. Down, J. Christopher Beck	Integrating Queueing Theory and Scheduling for Dynamic Scheduling Problems	Yes	[583]	2014	J. Artif. Intell. Res.	38	12	0	1459	1657
TranTDB13 TranTDB13	Tony T. Tran, D. Terekhov, Douglas G. Down, J. Christopher Beck	Hybrid Queueing Theory and Scheduling Models for Dynamic Environments with Sequence-Dependent Setup Times	Yes	[600]	2013	ICAPS 2013	9	0	0	606	809
TranB12 TranB12	Tony T. Tran, J. Christopher Beck	Logic-based Benders Decomposition for Alternative Resource Scheduling with Sequence Dependent Setups	Yes	[597]	2012	ECAI 2012	6	0	0	604	821

D.26 8 Works by Mats Carlsson

Table 50: Works from bibtex (Total 8)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
WessenCS20	J. Wessén, M. Carlsson, C. Schulte	Scheduling of Dual-Arm Multi-tool Assembly Robots and Workspace Layout Optimization	Yes	[635]	2020	CPAIOR 2020	10	2	11	625	699
WessenCS20											
MossigeGSMC17	M. Mossige, A. Gotlieb, H. Spieker, H. Meling,	Time-Aware Test Case Execution Scheduling for	Yes	[450]	2017	CP 2017	18	6	33	538	741
MossigeGSMC17	M. Carlsson	Cyber-Physical Systems									
LetortCB15	LetortCB15	A. Letort, M. Carlsson, N. Beldiceanu	Yes	[387]	2015	Constraints An Int. J.	52	2	14	1378	1645
LetortCB13	LetortCB13	A. Letort, M. Carlsson, N. Beldiceanu	Yes	[386]	2013	CPAIOR 2013	16	3	10	508	803
LetortBC12	LetortBC12	A. Letort, N. Beldiceanu, M. Carlsson	Yes	[385]	2012	CP 2012	16	18	12	507	816
BeldiceanuCDP11	N. Beldiceanu, M. Carlsson, S. Demasse, E.	New filtering for the <i>cumulative</i> constraint in the	Yes	[80]	2011	Annals of Opera-	24	8	8	1277	1679
BeldiceanuCDP11	Poder	context of non-overlapping rectangles				tions Research					
BeldiceanuCP08	N. Beldiceanu, M. Carlsson, E. Poder	New Filtering for the cumulative Constraint in the	Yes	[81]	2008	CPAIOR 2008	15	8	9	364	860
BeldiceanuCP08		Context of Non-Overlapping Rectangles									
BeldiceanuC02	N. Beldiceanu, M. Carlsson	A New Multi-resource cumulatives Constraint with	Yes	[79]	2002	CP 2002	17	33	9	363	930
BeldiceanuC02		Negative Heights									

D.27 8 Works by Thibaut Feydy

Table 51: Works from bibtex (Total 8)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
YoungFS17 YoungFS17	Kenneth D. Young, T. Feydy, A. Schutt	Constraint Programming Applied to the Multi-Skill Project Scheduling Problem	Yes	[648]	2017	CP 2017	10	6	21	635	744
SchuttFSW15 SchuttFSW15	A. Schutt, T. Feydy, Peter J. Stuckey, Mark G. Wallace	A Satisfiability Solving Approach	No	[544]	2015	Handbook on Project Management and Scheduling Vol.1	26	3	28	No	n/a
SchuttFS13 SchuttFS13	A. Schutt, T. Feydy, Peter J. Stuckey	Scheduling Optional Tasks with Explanation	Yes	[539]	2013	CP 2013	17	10	20	573	807
SchuttFS13a SchuttFS13a	A. Schutt, T. Feydy, Peter J. Stuckey	Explaining Time-Table-Edge-Finding Propagation for the Cumulative Resource Constraint	Yes	[538]	2013	CPAIOR 2013	17	20	27	574	808
SchuttFSW13 SchuttFSW13	A. Schutt, T. Feydy, Peter J. Stuckey, Mark G. Wallace	Solving RCPSP/max by lazy clause generation	Yes	[543]	2013	Journal of Scheduling	17	43	23	1447	1665
SchuttFSW11 SchuttFSW11	A. Schutt, T. Feydy, Peter J. Stuckey, Mark G. Wallace	Explaining the cumulative propagator	Yes	[542]	2011	Constraints An Int. J.	33	57	23	1446	1689
abs-1009-0347 abs-1009-0347	A. Schutt, T. Feydy, Peter J. Stuckey, Mark G. Wallace	Solving the Resource Constrained Project Scheduling Problem with Generalized Precedences by Lazy Clause Generation	Yes	[541]	2010	CoRR	37	0	0	1490	1700
SchuttFSW09 SchuttFSW09	A. Schutt, T. Feydy, Peter J. Stuckey, M. Wallace	Why Cumulative Decomposition Is Not as Bad as It Sounds	Yes	[540]	2009	CP 2009	16	34	11	575	854

D.28 8 Works by Mark G. Wallace

Table 52: Works from bibtex (Total 8)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
SchuttFSW15 SchuttFSW15	A. Schutt, T. Feydy, Peter J. Stuckey, Mark G. Wallace	A Satisfiability Solving Approach	No	[544]	2015	Handbook on Project Management and Scheduling Vol.1	26	3	28	No	n/a
GuSSWC14 GuSSWC14	H. Gu, A. Schutt, Peter J. Stuckey, Mark G. Wallace, G. Chu	Exact and Heuristic Methods for the Resource-Constrained Net Present Value Problem	No	[268]	2014	Handbook on Project Management and Scheduling Vol.1	null	5	35	No	n/a
SchuttFSW13 SchuttFSW13	A. Schutt, T. Feydy, Peter J. Stuckey, Mark G. Wallace	Solving RCPSP/max by lazy clause generation	Yes	[543]	2013	Journal of Scheduling	17	43	23	1447	1665
GuSW12 GuSW12	H. Gu, Peter J. Stuckey, Mark G. Wallace	Maximising the Net Present Value of Large Resource-Constrained Projects	Yes	[269]	2012	CP 2012	15	5	20	456	813
SchuttCSW12 SchuttCSW12	A. Schutt, G. Chu, Peter J. Stuckey, Mark G. Wallace	Maximising the Net Present Value for Resource-Constrained Project Scheduling	Yes	[537]	2012	CPAIOR 2012	17	18	21	572	818
SchuttFSW11 SchuttFSW11	A. Schutt, T. Feydy, Peter J. Stuckey, Mark G. Wallace	Explaining the cumulative propagator	Yes	[542]	2011	Constraints An Int. J.	33	57	23	1446	1689
abs-1009-0347 abs-1009-0347	A. Schutt, T. Feydy, Peter J. Stuckey, Mark G. Wallace	Solving the Resource Constrained Project Scheduling Problem with Generalized Precedences by Lazy Clause Generation	Yes	[541]	2010	CoRR	37	0	0	1490	1700
AjiliW04 AjiliW04	F. Ajili, Mark G. Wallace	Hybrid Problem Solving in ECLiPSe	No	[12]	2004	Constraint and Integer Programming	null	4	24	No	n/a

D.29 8 Works by Louis-Martin Rousseau

Table 53: Works from bibtex (Total 8)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
CappartTSR18 CappartTSR18	Q. Cappart, C. Thomas, P. Schaus, L. Rousseau	A Constraint Programming Approach for Solving Patient Transportation Problems	Yes	[131]	2018	CP 2018	17	6	31	391	719
DoulabiRP16 DoulabiRP16	Seyed Hossein Hashemi Doulabi, L. Rousseau, G. Pesant	A Constraint-Programming-Based Branch-and-Price-and-Cut Approach for Operating Room Planning and Scheduling	Yes	[191]	2016	INFORMS Journal on Computing	17	56	28	1306	1632
PesantRR15 PesantRR15	G. Pesant, G. Rix, L. Rousseau	A Comparative Study of MIP and CP Formulations for the B2B Scheduling Optimization Problem	Yes	[500]	2015	CPAIOR 2015	16	1	7	557	777
DoulabiRP14 DoulabiRP14	Seyed Hossein Hashemi Doulabi, L. Rousseau, G. Pesant	A Constraint Programming-Based Column Generation Approach for Operating Room Planning and Scheduling	Yes	[190]	2014	CPAIOR 2014	9	3	10	416	790
MalapertCGJLR13 MalapertCGJLR13	A. Malapert, H. Cambazard, C. Gu��ret, N. Jussien, A. Langevin, L. Rousseau	An Optimal Constraint Programming Approach to the Open-Shop Problem	Yes	[424]	2013	ICAPS 2013	2	0	0	529	805
MalapertCGJLR12 MalapertCGJLR12	A. Malapert, H. Cambazard, C. Gu��ret, N. Jussien, A. Langevin, L. Rousseau	An Optimal Constraint Programming Approach to the Open-Shop Problem	Yes	[423]	2012	INFORMS Journal on Computing	17	23	21	1391	1671
ChapadosJR11 ChapadosJR11	N. Chapados, M. Joliveau, L. Rousseau	Retail Store Workforce Scheduling by Expected Operating Income Maximization	Yes	[146]	2011	CPAIOR 2011	6	5	12	397	825
HachemiGR11 HachemiGR11	Nizar El Hachemi, M. Gendreau, L. Rousseau	A hybrid constraint programming approach to the log-truck scheduling problem	Yes	[274]	2011	Annals of Operations Research	16	32	19	1334	1683

D.30 8 Works by Armin Wolf

Table 54: Works from bibtex (Total 8)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
GeitzGSSW22 GeitzGSSW22 Wolf11 Wolf11	M. Geitz, C. Grozea, W. Steigerwald, R. Stöhr, A. Wolf A. Wolf	Solving the Extended Job Shop Scheduling Problem with AGVs - Classical and Quantum Approaches Constraint-Based Modeling and Scheduling of Clinical Pathways	Yes Yes	[240] [640]	2022 2011	CPAIOR 2022 CSCLP 2011	18 17	0 5	24 19	439 630	663 836
SchuttW10 SchuttW10 Wolf09 Wolf09	A. Schutt, A. Wolf A. Wolf, G. Schrader	A New $O(n^2 \log n)$ Not-First/Not-Last Pruning Algorithm for Cumulative Resource Constraints Linear Weighted-Task-Sum – Scheduling Prioritized Tasks on a Single Resource	Yes Yes	[546] [642]	2010 2009	CP 2010 INAP 2009	15 17	13 1	14 12	577 629	845 858
SchuttWS05 SchuttWS05 Wolf05 Wolf05	A. Schutt, A. Wolf, G. Schrader A. Wolf	Not-First and Not-Last Detection for Cumulative Scheduling in $O(n^3 \log n)$ Better Propagation for Non-preemptive Single-Resource Constraint Problems	Yes Yes	[547] [639]	2005 2005	INAP 2005 CSCLP 2005	15 15	6 4	4 8	578 628	904 906
WolfS05 WolfS05 Wolf03 Wolf03	A. Wolf, G. Schrader A. Wolf	$O(n \log n)$ Overload Checking for the Cumulative Constraint and Its Application Pruning while Sweeping over Task Intervals	Yes Yes	[641] [638]	2005 2003	INAP 2005 CP 2003	14 15	6 11	6 7	631 627	907 927

D.31 7 Works by Diarmuid Grimes

Table 55: Works from bibtex (Total 7)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
AntunesABD20 AntunesABD20	M. Antunes, V. Armant, Kenneth N. Brown, Daniel A. Desmond, G. Escamocher, A. George, D. Grimes, M. O'Keeffe, Y. Lin, B. O'Sullivan, C. Ozturk, L. Quesada, M. Siala, H. Simonis, N. Wilson	Assigning and Scheduling Service Visits in a Mixed Urban/Rural Setting	Yes	[20]	2020	Int. J. Artif. Intell. Tools	31	0	16	1255	1569
AntunesABD18 AntunesABD18	M. Antunes, V. Armant, Kenneth N. Brown, Daniel A. Desmond, G. Escamocher, A. George, D. Grimes, M. O'Keeffe, Y. Lin, B. O'Sullivan, C. Ozturk, L. Quesada, M. Siala, H. Simonis, N. Wilson	Assigning and Scheduling Service Visits in a Mixed Urban/Rural Setting	Yes	[19]	2018	ICTAI 2018	8	1	24	334	715
GrimesH15 GrimesH15	D. Grimes, E. Hebrard	Solving Variants of the Job Shop Scheduling Problem Through Conflict-Directed Search	Yes	[260]	2015	INFORMS Journal on Computing	17	12	41	1328	1643
GrimesIOS14 GrimesIOS14	D. Grimes, G. Ifrim, B. O'Sullivan, H. Simonis	Analyzing the impact of electricity price forecasting on energy cost-aware scheduling	Yes	[262]	2014	Sustain. Comput. Informatics Syst.	16	6	7	1329	1653
GrimesH11 GrimesH11	D. Grimes, E. Hebrard	Models and Strategies for Variants of the Job Shop Scheduling Problem	Yes	[259]	2011	CP 2011	17	5	18	450	828
GrimesH10 GrimesH10	D. Grimes, E. Hebrard	Job Shop Scheduling with Setup Times and Maximal Time-Lags: A Simple Constraint Programming Approach	Yes	[258]	2010	CPAIOR 2010	15	13	20	449	842
GrimesHM09 GrimesHM09	D. Grimes, E. Hebrard, A. Malapert	Closing the Open Shop: Contradicting Conventional Wisdom	Yes	[261]	2009	CP 2009	9	15	12	451	850

D.32 7 Works by Zdenek Hanzálek

Table 56: Works from bibtex (Total 7)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
Mehdizadeh-Somarin23 Mehdizadeh-Somarin23	Z. Mehdizadeh-Somarin, R. Tavakkoli-Moghaddam, M. Rohaninejad, Z. Hanzálek, Behdin Vahedi Nouri	A Constraint Programming Model for a Reconfigurable Job Shop Scheduling Problem with Machine Availability	Yes	[432]	2023	APMS 2023	14	0	0	532	653
abs-2305-19888 abs-2305-19888	V. Heinz, A. Novák, M. Vlk, Z. Hanzálek	Constraint Programming and Constructive Heuristics for Parallel Machine Scheduling with Sequence-Dependent Setups and Common Servers	Yes	[298]	2023	CoRR	42	0	0	1497	1528
HeinzNVH22 HeinzNVH22	V. Heinz, A. Novák, M. Vlk, Z. Hanzálek	Constraint Programming and constructive heuristics for parallel machine scheduling with sequence-dependent setups and common servers	Yes	[297]	2022	Computers Indus- trial Engineering	16	5	25	1344	1540
VlkHT21 VlkHT21	M. Vlk, Z. Hanzálek, S. Tang	Constraint programming approaches to joint routing and scheduling in time-sensitive networks	Yes	[625]	2021	Computers Indus- trial Engineering	14	7	22	1470	1565
BenediktMH20 BenediktMH20	O. Benedikt, I. Módos, Z. Hanzálek	Power of pre-processing: production scheduling with variable energy pricing and power-saving states	Yes	[86]	2020	Constraints An Int. J.	19	1	18	1279	1572
BenediktSMVH18 BenediktSMVH18	O. Benedikt, P. Sucha, I. Módos, M. Vlk, Z. Hanzálek	Energy-Aware Production Scheduling with Power-Saving Modes	Yes	[87]	2018	CPAIOR 2018	10	2	12	367	718
KelbelH11 KelbelH11	J. Kelbel, Z. Hanzálek	Solving production scheduling with earliness/tardiness penalties by constraint programming	Yes	[343]	2011	Journal of Intelli- gent Manufacturing	10	12	14	1363	1685

D.33 7 Works by Roger Kameugne

Table 57: Works from bibtex (Total 7)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
KameugneFND23	R. Kameugne, Séverine Betmbe Fetgo, T.	Horizontally Elastic Edge Finder Rule for	Yes	[338]	2023	CP 2023	17	0	0	483	651
KameugneFND23	Noulamo, Clémentin Tayou Djamégni	Cumulative Constraint Based on Slack and Density									
ThomasKS20	C. Thomas, R. Kameugne, P. Schaus	Insertion Sequence Variables for Hybrid Routing and	Yes	[588]	2020	CPAIOR 2020	18	0	16	599	697
ThomasKS20		Scheduling Problems									
KameugneFGOQ18	R. Kameugne, Séverine Betmbe Fetgo, V.	Horizontally Elastic Not-First/Not-Last Filtering	Yes	[337]	2018	CPAIOR 2018	17	1	12	482	723
KameugneFGOQ18	Gingras, Y. Ouellet, C. Quimper	Algorithm for Cumulative Resource Constraint									
Kameugne15	R. Kameugne	Propagation techniques of resource constraint for	Yes	[336]	2015	Constraints An Int.	2	0	0	1361	1644
Kameugne15		cumulative scheduling				J.					
Kameugne14	R. Kameugne	Techniques de Propagation de la Contrainte de	Yes	[335]	2014	University of	139	0	0	2819	n/a
Kameugne14		Ressource en Ordonnancement Cumulatif				Yaounde I, Cameroon					
KameugneFSN14	R. Kameugne, Laure Pauline Fotso, Joseph D.	A quadratic edge-finding filtering algorithm for	Yes	[340]	2014	Constraints An Int.	27	6	10	1362	1655
KameugneFSN14	Scott, Y. Ngo-Kateu	cumulative resource constraints				J.					
KameugneFSN11	R. Kameugne, Laure Pauline Fotso, Joseph D.	A Quadratic Edge-Finding Filtering Algorithm for	Yes	[339]	2011	CP 2011	15	7	9	484	831
KameugneFSN11	Scott, Y. Ngo-Kateu	Cumulative Resource Constraints									

D.34 7 Works by András Kovács

Table 58: Works from bibtex (Total 7)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
KovacsB11 KovacsB11	A. Kovács, J. Christopher Beck	A global constraint for total weighted completion time for unary resources	Yes	[358]	2011	Constraints An Int. J.	24	4	26	1368	1686
KovacsK11 KovacsK11	A. Kovács, T. Kis	Constraint programming approach to a bilevel scheduling problem	Yes	[360]	2011	Constraints An Int. J.	24	3	24	1369	1687
KovacsB08 KovacsB08	A. Kovács, J. Christopher Beck	A global constraint for total weighted completion time for cumulative resources	Yes	[357]	2008	Eng. Appl. Artif. Intell.	7	5	14	1367	1712
KovacsB07 KovacsB07	A. Kovács, J. Christopher Beck	A Global Constraint for Total Weighted Completion Time	Yes	[356]	2007	CPAIOR 2007	15	2	12	493	876
KovacsV06 KovacsV06	A. Kovács, J. Váncza	Progressive Solutions: A Simple but Efficient Dominance Rule for Practical RCPSP	Yes	[362]	2006	CPAIOR 2006	13	2	7	497	885
KovacsEKV05 KovacsEKV05	A. Kovács, P. Egri, T. Kis, J. Váncza	Proterv-II: An Integrated Production Planning and Scheduling System	Yes	[359]	2005	CP 2005	1	2	3	494	901
KovacsV04 KovacsV04	A. Kovács, J. Váncza	Completable Partial Solutions in Constraint Programming and Constraint-Based Scheduling	Yes	[361]	2004	CP 2004	15	3	12	496	913

D.35 7 Works by Arnaud Malapert

Table 59: Works from bibtex (Total 7)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
BonninMNE24 BonninMNE24	C. Bonnin, A. Malapert, M. Nattaf, M. Espinouse	Toward a Global Constraint for Minimizing the Flowtime	Yes	[114]	2024	ICORES 2024	12	0	0	384	645
NattafM20 NattafM20	M. Nattaf, A. Malapert	Filtering Rules for Flow Time Minimization in a Parallel Machine Scheduling Problem	Yes	[469]	2020	CP 2020	16	0	6	545	695
MalapertN19 MalapertN19	A. Malapert, M. Nattaf	A New CP-Approach for a Parallel Machine Scheduling Problem with Time Constraints on Machine Qualifications	Yes	[425]	2019	CPAIOR 2019	17	1	7	530	710
MalapertCGJLR13 MalapertCGJLR13	A. Malapert, H. Cambazard, C. Gu��ret, N. Jussien, A. Langevin, L. Rousseau	An Optimal Constraint Programming Approach to the Open-Shop Problem	Yes	[424]	2013	ICAPS 2013	2	0	0	529	805
MalapertCGJLR12 MalapertCGJLR12	A. Malapert, H. Cambazard, C. Gu��ret, N. Jussien, A. Langevin, L. Rousseau	An Optimal Constraint Programming Approach to the Open-Shop Problem	Yes	[423]	2012	INFORMS Journal on Computing	17	23	21	1391	1671
Malapert11 Malapert11	A. Malapert	Techniques d'ordonnancement d'atelier et de fourn��es bas��es sur la programmation par contraintes. (Shop and batch scheduling with constraints)	Yes	[422]	2011	��cole des mines de Nantes, France	194	0	0	2825	n/a
GrimesHM09 GrimesHM09	D. Grimes, E. Hebrard, A. Malapert	Closing the Open Shop: Contradicting Conventional Wisdom	Yes	[261]	2009	CP 2009	9	15	12	451	850

D.36 7 Works by Barry O’Sullivan

Table 60: Works from bibtex (Total 7)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
ArmstrongGOS22	E. Armstrong, M. Garraffa, B. O’Sullivan, H. Simonis	A Two-Phase Hybrid Approach for the Hybrid Flexible Flowshop with Transportation Times	Yes	[27]	2022	CPAIOR 2022	13	0	14	339	661
ArmstrongGOS21	E. Armstrong, M. Garraffa, B. O’Sullivan, H. Simonis	The Hybrid Flexible Flowshop with Transportation Times	Yes	[26]	2021	CP 2021	18	1	0	338	678
AntunesABD20	M. Antunes, V. Armant, Kenneth N. Brown, Daniel A. Desmond, G. Escamocher, A. George, D. Grimes, M. O’Keeffe, Y. Lin, B. O’Sullivan, C. Ozturk, L. Quesada, M. Siala, H. Simonis, N. Wilson	Assigning and Scheduling Service Visits in a Mixed Urban/Rural Setting	Yes	[20]	2020	Int. J. Artif. Intell. Tools	31	0	16	1255	1569
AntunesABD18	M. Antunes, V. Armant, Kenneth N. Brown, Daniel A. Desmond, G. Escamocher, A. George, D. Grimes, M. O’Keeffe, Y. Lin, B. O’Sullivan, C. Ozturk, L. Quesada, M. Siala, H. Simonis, N. Wilson	Assigning and Scheduling Service Visits in a Mixed Urban/Rural Setting	Yes	[19]	2018	ICTAI 2018	8	1	24	334	715
HurleyOS16	B. Hurley, B. O’Sullivan, H. Simonis	ICON Loop Energy Show Case	Yes	[321]	2016	Data Mining and Constraint Programming - Foundations of a Cross-Disciplinary Approach	14	0	16	2852	n/a
GrimesIOS14	D. Grimes, G. Ifrim, B. O’Sullivan, H. Simonis	Analyzing the impact of electricity price forecasting on energy cost-aware scheduling	Yes	[262]	2014	Sustain. Comput. Informatics Syst.	16	6	7	1329	1653
IfrimOS12	G. Ifrim, B. O’Sullivan, H. Simonis	Properties of Energy-Price Forecasts for Scheduling	Yes	[322]	2012	CP 2012	16	6	20	476	815

D.37 7 Works by Gabriela P. Henning

Table 61: Works from bibtex (Total 7)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
NovaraNH16 NovaraNH16	Franco M. Novara, Juan M. Novas, Gabriela P. Henning	A novel constraint programming model for large-scale scheduling problems in multiproduct multistage batch plants: Limited resources and campaign-based operation	Yes	[475]	2016	Computers Chemical Engineering	17	18	31	1415	1637
NovasH14 NovasH14	Juan M. Novas, Gabriela P. Henning	Integrated scheduling of resource-constrained flexible manufacturing systems using constraint programming	Yes	[479]	2014	Expert Syst. Appl.	14	35	26	1419	1656
NovasH12 NovasH12	Juan M. Novas, Gabriela P. Henning	A comprehensive constraint programming approach for the rolling horizon-based scheduling of automated wet-etch stations	Yes	[478]	2012	Computers Chemical Engineering	17	17	15	1418	1673
NovasH10 NovasH10	Juan M. Novas, Gabriela P. Henning	Reactive scheduling framework based on domain knowledge and constraint programming	Yes	[477]	2010	Computers Chemical Engineering	20	48	19	1417	1698
ZeballosQH10 ZeballosQH10	L. Zeballos, O. Quiroga, Gabriela P. Henning	A constraint programming model for the scheduling of flexible manufacturing systems with machine and tool limitations	Yes	[658]	2010	Eng. Appl. Artif. Intell.	20	33	28	1483	1699
QuirogaZH05 QuirogaZH05	O. Quiroga, L. Zeballos, Gabriela P. Henning	A Constraint Programming Approach to Tool Allocation and Resource Scheduling in FMS	Yes	[516]	2005	ICRA 2005	6	2	7	565	903
ZeballosH05 ZeballosH05	L. Zeballos, Gabriela P. Henning	A Constraint Programming Approach to FMS Scheduling. Consideration of Storage and Transportation Resources	Yes	[657]	2005	Inteligencia Artif.	10	0	0	1482	1731

D.38 6 Works by Yves Deville

Table 62: Works from bibtex (Total 6)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
DejemeppeD14 DejemeppeD14	C. Dejemeppe, Y. Deville	Continuously Degrading Resource and Interval Dependent Activity Durations in Nuclear Medicine Patient Scheduling	Yes	[175]	2014	CPAIOR 2014	9	0	7	410	787
HoundjiSWD14 HoundjiSWD14	Vinasétan Ratheil Houndji, P. Schaus, Laurence A. Wolsey, Y. Deville	The StockingCost Constraint	Yes	[319]	2014	CP 2014	16	5	7	475	793
SchausHMCMD11 SchausHMCMD11	P. Schaus, Pascal Van Hentenryck, J. Monette, C. Coffrin, L. Michel, Y. Deville	Solving Steel Mill Slab Problems with constraint-based techniques: CP, LNS, and CBLS	Yes	[533]	2011	Constraints An Int. J.	23	14	5	1443	1688
MonetteDH09 MonetteDH09	J. Monette, Y. Deville, Pascal Van Hentenryck	Just-In-Time Scheduling with Constraint Programming	Yes	[447]	2009	ICAPS 2009	8	0	0	537	853
SchausD08 SchausD08	P. Schaus, Y. Deville	A Global Constraint for Bin-Packing with Precedences: Application to the Assembly Line Balancing Problem	Yes	[532]	2008	AAAI 2008	6	0	0	571	868
MonetteDD07 MonetteDD07	J. Monette, Y. Deville, P. Dupont	A Position-Based Propagator for the Open-Shop Problem	Yes	[446]	2007	CPAIOR 2007	14	0	12	536	879

D.39 6 Works by Stefan Heinz

Table 63: Works from bibtex (Total 6)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
HeinzKB13 HeinzKB13	S. Heinz, W. Ku, J. Christopher Beck	Recent Improvements Using Constraint Integer Programming for Resource Allocation and Scheduling	Yes	[293]	2013	CPAIOR 2013	16	9	15	463	801
HeinzSB13 HeinzSB13	S. Heinz, J. Schulz, J. Christopher Beck	Using dual presolving reductions to reformulate cumulative constraints	Yes	[296]	2013	Constraints An Int. J.	36	7	31	1345	1661
HeinzB12 HeinzB12	S. Heinz, J. Christopher Beck	Reconsidering Mixed Integer Programming and MIP-Based Hybrids for Scheduling	Yes	[292]	2012	CPAIOR 2012	17	8	21	462	814
HeinzSSW12 HeinzSSW12	S. Heinz, T. Schlechte, R. Stephan, M. Winkler	Solving steel mill slab design problems	Yes	[294]	2012	Constraints An Int. J.	12	10	9	1346	1667
HeinzS11 HeinzS11	S. Heinz, J. Schulz	Explanations for the Cumulative Constraint: An Experimental Study	Yes	[295]	2011	SEA 2011	10	5	12	464	829
BertholdHLMS10 BertholdHLMS10	T. Berthold, S. Heinz, Marco E. Lübbecke, Rolf H. Möhring, J. Schulz	A Constraint Integer Programming Approach for Resource-Constrained Project Scheduling	Yes	[92]	2010	CPAIOR 2010	5	28	10	370	839

D.40 6 Works by Wim Nuijten

Table 64: Works from bibtex (Total 6)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
BaptisteLPN06 BaptisteLPN06	P. Baptiste, P. Laborie, Claude Le Pape, W. Nuijten	Constraint-Based Scheduling and Planning	No	[47]	2006	Handbook of Con- straint Program- ming ICAPS 2005	39	30	25	No	n/a
GodardLN05 GodardLN05	D. Godard, P. Laborie, W. Nuijten	Randomized Large Neighborhood Search for Cumulative Scheduling	Yes	[247]	2005		9	0	0	444	898
BaptistePN01 BaptistePN01	P. Baptiste, Claude Le Pape, W. Nuijten	Constraint-Based Scheduling	No	[50]	2001	Book	null	296	0	No	n/a
FocacciLN00 FocacciLN00	F. Focacci, P. Laborie, W. Nuijten	Solving Scheduling Problems with Setup Times and Alternative Resources	Yes	[216]	2000	AIPS 2000	10	0	0	423	942
SourdN00 SourdN00	F. Sourd, W. Nuijten	Multiple-Machine Lower Bounds for Shop-Scheduling Problems	Yes	[565]	2000	INFORMS Journal on Computing	12	7	14	1454	1755
NuijtenP98 NuijtenP98	W. Nuijten, Claude Le Pape	Constraint-Based Job Shop Scheduling with \sc Ilog Scheduler	Yes	[481]	1998	J. Heuristics	16	42	0	1421	1761

D.41 6 Works by Erwin Pesch

Table 65: Works from bibtex (Total 6)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
MullerMKP22 MullerMKP22	D. Müller, Marcus Gerhard Müller, D. Kress, E. Pesch	An algorithm selection approach for the flexible job shop scheduling problem: Choosing constraint programming solvers through machine learning	Yes	[453]	2022	European Journal of Operational Research	18	17	59	1405	1544
BlazewiczEP19 BlazewiczEP19	J. Blazewicz, Klaus H. Ecker, E. Pesch, G. Schmidt, M. Sterna, J. Weglarz	Constraint Programming and Disjunctive Scheduling	No	[97]	2019	Handbook on Scheduling	62	38	0	No	n/a
DomdorfPH03 DomdorfPH03	U. Domdorf, E. Pesch, Toản Phan Huy	Machine Learning by Schedule Decomposition — Prospects for an Integration of AI and OR Techniques for Job Shop Scheduling	No	[186]	2003	Advances in Evolutionary Computing	null	0	57	No	n/a
DorndorfHP99 DorndorfHP99	U. Dorndorf, Toản Phan Huy, E. Pesch	A Survey of Interval Capacity Consistency Tests for Time- and Resource-Constrained Scheduling	No	[188]	1999	Project Scheduling	null	18	20	No	n/a
DorndorfPH99 DorndorfPH99	U. Dorndorf, E. Pesch, Toản Phan Huy	Recent Developments in Scheduling	No	[189]	1999	Operations Research Proceedings 1999	null	0	34	No	943
BlazewiczDP96 BlazewiczDP96	J. Błażewicz, W. Domschke, E. Pesch	The job shop scheduling problem: Conventional and new solution techniques	Yes	[126]	1996	European Journal of Operational Research	33	344	127	1283	1767

D.42 6 Works by Emmanuel Poder

Table 66: Works from bibtex (Total 6)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
BeldiceanuCDP11 BeldiceanuCDP11 abs-0907-0939 abs-0907-0939	N. Beldiceanu, M. Carlsson, S. Demassey, E. Poder	New filtering for the <i>cumulative</i> constraint in the context of non-overlapping rectangles	Yes	[80]	2011	Annals of Operations Research	24	8	8	1277	1679
	T. Petit, E. Poder	The Soft Cumulative Constraint	Yes	[501]	2009	CoRR	12	0	0	1489	1710
BeldiceanuCP08 BeldiceanuCP08	N. Beldiceanu, M. Carlsson, E. Poder	New Filtering for the cumulative Constraint in the Context of Non-Overlapping Rectangles	Yes	[81]	2008	CPAIOR 2008	15	8	9	364	860
PoderB08 PoderB08	E. Poder, N. Beldiceanu	Filtering for a Continuous Multi-Resources cumulative Constraint with Resource Consumption and Production	Yes	[502]	2008	ICAPS 2008	8	0	0	558	867
BeldiceanuP07 BeldiceanuP07	N. Beldiceanu, E. Poder	A Continuous Multi-resources <i>cumulative</i> Constraint with Positive-Negative Resource Consumption-Production	Yes	[82]	2007	CPAIOR 2007	15	4	7	365	871
PoderBS04 PoderBS04	E. Poder, N. Beldiceanu, E. Sanlaville	Computing a lower approximation of the compulsory part of a task with varying duration and varying resource consumption	Yes	[503]	2004	European Journal of Operational Research	16	7	8	1428	1732

D.43 6 Works by Vahid Roshanaei

Table 67: Works from bibtex (Total 6)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
NaderiRR23 NaderiRR23	B. Naderi, R. Ruiz, V. Roshanaei	Mixed-Integer Programming vs. Constraint Programming for Shop Scheduling Problems: New Results and Outlook	Yes	[462]	2023	INFORMS Journal on Computing	27	2	50	1408	1522
NaderiR22 NaderiR22	B. Naderi, V. Roshanaei	Critical-Path-Search Logic-Based Benders Decomposition Approaches for Flexible Job Shop Scheduling	No	[460]	2022	INFORMS Journal on Optimization	null	5	49	No	1547
NaderiRBAU21 NaderiRBAU21	B. Naderi, V. Roshanaei, Mehmet A. Begen, Dionne M. Aleman, David R. Urbach	Increased Surgical Capacity without Additional Resources: Generalized Operating Room Planning and Scheduling	No	[461]	2021	Production and Operations Management	null	22	61	No	1562
RoshanaeiBAUB20 RoshanaeiBAUB20	V. Roshanaei, Kyle E.C. Booth, Dionne M. Aleman, David R. Urbach, J. Christopher Beck	Branch-and-check methods for multi-level operating room planning and scheduling	Yes	[523]	2020	International Journal of Production Economics	19	24	43	1437	1583
RoshanaeiLAU17 RoshanaeiLAU17	V. Roshanaei, C. Luong, Dionne M. Aleman, D. Urbach	Propagating logic-based Benders' decomposition approaches for distributed operating room scheduling	Yes	[524]	2017	European Journal of Operational Research	17	61	46	1438	1625
RoshanaeiLAU17a RoshanaeiLAU17a	V. Roshanaei, C. Luong, Dionne M. Aleman, David R. Urbach	Collaborative Operating Room Planning and Scheduling	No	[525]	2017	INFORMS Journal on Computing	null	54	42	No	1626

D.44 5 Works by Cyrille Dejemeppe

Table 68: Works from bibtex (Total 5)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
CauwelaertDS20 CauwelaertDS20	Sasha Van Cauwelaert, C. Dejemeppe, P. Schaus	An Efficient Filtering Algorithm for the Unary Resource Constraint with Transition Times and Optional Activities	Yes	[143]	2020	Journal of Scheduling	19	2	21	1295	1573
CauwelaertDMS16 CauwelaertDMS16 Dejemeppe16 Dejemeppe16	Sascha Van Cauwelaert, C. Dejemeppe, J. Monette, P. Schaus C. Dejemeppe	Efficient Filtering for the Unary Resource with Family-Based Transition Times	Yes	[141]	2016	CP 2016	16	1	12	395	750
DejemeppeCS15 DejemeppeCS15	C. Dejemeppe, Sascha Van Cauwelaert, P. Schaus	Constraint programming algorithms and models for scheduling applications	Yes	[173]	2016	Catholic University of Louvain, Louvain-la-Neuve, Belgium	274	0	0	2810	n/a
DejemeppeD14 DejemeppeD14	C. Dejemeppe, Y. Deville	The Unary Resource with Transition Times	Yes	[174]	2015	CP 2015	16	5	11	409	767
DejemeppeD14 DejemeppeD14	C. Dejemeppe, Y. Deville	Continuously Degrading Resource and Interval Dependent Activity Durations in Nuclear Medicine Patient Scheduling	Yes	[175]	2014	CPAIOR 2014	9	0	7	410	787

D.45 5 Works by Sophie Demassey

Table 69: Works from bibtex (Total 5)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
BeldiceanuCDP11	N. Beldiceanu, M. Carlsson, S. Demassey, E. Poder	New filtering for the <i>cumulative</i> constraint in the context of non-overlapping rectangles	Yes	[80]	2011	Annals of Operations Research	24	8	8	1277	1679
HermenierDL11	F. Hermenier, S. Demassey, X. Lorca	Bin Repacking Scheduling in Virtualized Datacenters	Yes	[302]	2011	CP 2011	15	28	5	467	830
NeronABCDD06	E. Néron, C. Artigues, P. Baptiste, J. Carlier, J. Damay, S. Demassey, P. Laborie	Lower Bounds for Resource Constrained Project Scheduling Problem	No	[483]	2006	Perspectives in Modern Project Scheduling	null	3	34	No	n/a
DemasseyAM05	S. Demassey, C. Artigues, P. Michelon	Constraint-Propagation-Based Cutting Planes: An Application to the Resource-Constrained Project Scheduling Problem	Yes	[177]	2005	INFORMS Journal on Computing	18	43	25	1304	1728
Demassey03	S. Demassey	Méthodes hybrides de programmation par contraintes et programmation linéaire pour le problème d'ordonnancement de projet à contraintes de ressources. (Hybrid Constraint Programming-Integer Linear Programming approaches for the Resource-Constrained Project Scheduling Problem)	Yes	[176]	2003	University of Avignon, France	148	0	0	2811	n/a

D.46 5 Works by Ignacio E. Grossmann

Table 70: Works from bibtex (Total 5)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
HarjunkoskiMBC14 HarjunkoskiMBC14	I. Harjunkoski, Christos T. Maravelias, P. Bongers, Pedro M. Castro, S. Engell, Ignacio E. Grossmann, John N. Hooker, C. Méndez, G. Sand, J. Wassick	Scope for industrial applications of production scheduling models and solution methods	Yes	[281]	2014	Computers Chemical Engineering	33	381	176	1340	1654
CastroGR10 CastroGR10	Pedro M. Castro, Ignacio E. Grossmann, L. Rousseau	Decomposition Techniques for Hybrid MILP/CP Models applied to Scheduling and Routing Problems	No	[139]	2010	Hybrid Optimization	null	0	67	No	n/a
MaraveliasG04 MaraveliasG04	Christos T. Maravelias, Ignacio E. Grossmann	Using MILP and CP for the Scheduling of Batch Chemical Processes	Yes	[428]	2004	CPAIOR 2004	20	15	15	531	915
HarjunkoskiG02 HarjunkoskiG02	I. Harjunkoski, Ignacio E. Grossmann	Decomposition techniques for multistage scheduling problems using mixed-integer and constraint programming methods	Yes	[280]	2002	Computers Chemical Engineering	20	169	11	1339	1738
JainG01 JainG01	V. Jain, Ignacio E. Grossmann	Algorithms for Hybrid MILP/CP Models for a Class of Optimization Problems	Yes	[325]	2001	INFORMS Journal on Computing	19	279	23	1356	1743

D.47 5 Works by Hanyu Gu

Table 71: Works from bibtex (Total 5)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
EtminaniesfahaniGNMS22 EtminaniesfahaniGNMS22	A. Etminaniesfahani, H. Gu, Leila Moslemi Naeni, A. Salehipour	A Forward-Backward Relax-and-Solve Algorithm for the Resource-Constrained Project Scheduling Problem	Yes	[203]	2022	SN Computer Science	10	0	57	1310	1537
GuSSWC14 GuSSWC14	H. Gu, A. Schutt, Peter J. Stuckey, Mark G. Wallace, G. Chu	Exact and Heuristic Methods for the Resource-Constrained Net Present Value Problem	No	[268]	2014	Handbook on Project Management and Scheduling Vol.1	null	5	35	No	n/a
ThiruvadyWGS14 ThiruvadyWGS14	Dhananjay R. Thiruvady, M. Wallace, H. Gu, A. Schutt	A Lagrangian relaxation and ACO hybrid for resource constrained project scheduling with discounted cash flows	Yes	[587]	2014	J. Heuristics	34	19	18	1460	1658
GuSS13 GuSS13	H. Gu, A. Schutt, Peter J. Stuckey	A Lagrangian Relaxation Based Forward-Backward Improvement Heuristic for Maximising the Net Present Value of Resource-Constrained Projects	Yes	[267]	2013	CPAIOR 2013	7	10	24	455	800
GuSW12 GuSW12	H. Gu, Peter J. Stuckey, Mark G. Wallace	Maximising the Net Present Value of Large Resource-Constrained Projects	Yes	[269]	2012	CP 2012	15	5	20	456	813

D.48 5 Works by Narendra Jussien

Table 72: Works from bibtex (Total 5)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
MalapertCGJLR13	A. Malapert, H. Cambazard, C. Gu��ret, N. Jussien, A. Langevin, L. Rousseau	An Optimal Constraint Programming Approach to the Open-Shop Problem	Yes	[424]	2013	ICAPS 2013	2	0	0	529	805
MalapertCGJLR12	A. Malapert, H. Cambazard, C. Gu��ret, N. Jussien, A. Langevin, L. Rousseau	An Optimal Constraint Programming Approach to the Open-Shop Problem	Yes	[423]	2012	INFORMS Journal on Computing	17	23	21	1391	1671
ClercqPBJ11	Alexis De Clercq, T. Petit, N. Beldiceanu, N. Jussien	Filtering Algorithms for Discrete Cumulative Problems with Overloads of Resource	Yes	[152]	2011	CP 2011	16	3	11	401	826
ElkhyariGJ02	A. Elkhyari, C. Gu��ret, N. Jussien	Conflict-Based Repair Techniques for Solving Dynamic Scheduling Problems	Yes	[198]	2002	CP 2002	6	1	6	419	931
ElkhyariGJ02a	A. Elkhyari, C. Gu��ret, N. Jussien	Solving Dynamic Resource Constraint Project Scheduling Problems Using New Constraint Programming Tools	Yes	[199]	2002	PATAT 2002	24	9	20	420	932

D.49 5 Works by Juan M. Novas

Table 73: Works from bibtex (Total 5)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
Novas19 Novas19	Juan M. Novas	Production scheduling and lot streaming at flexible job-shops environments using constraint programming	Yes	[476]	2019	Computers Industrial Engineering	13	30	29	1416	1596
NovaraNH16 NovaraNH16	Franco M. Novara, Juan M. Novas, Gabriela P. Henning	A novel constraint programming model for large-scale scheduling problems in multiproduct multistage batch plants: Limited resources and campaign-based operation	Yes	[475]	2016	Computers Chemical Engineering	17	18	31	1415	1637
NovasH14 NovasH14	Juan M. Novas, Gabriela P. Henning	Integrated scheduling of resource-constrained flexible manufacturing systems using constraint programming	Yes	[479]	2014	Expert Syst. Appl.	14	35	26	1419	1656
NovasH12 NovasH12	Juan M. Novas, Gabriela P. Henning	A comprehensive constraint programming approach for the rolling horizon-based scheduling of automated wet-etch stations	Yes	[478]	2012	Computers Chemical Engineering	17	17	15	1418	1673
NovasH10 NovasH10	Juan M. Novas, Gabriela P. Henning	Reactive scheduling framework based on domain knowledge and constraint programming	Yes	[477]	2010	Computers Chemical Engineering	20	48	19	1417	1698

D.50 5 Works by Kenneth N. Brown

Table 74: Works from bibtex (Total 5)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
AntunesABD20 AntunesABD20	M. Antunes, V. Armant, Kenneth N. Brown, Daniel A. Desmond, G. Escamocher, A. George, D. Grimes, M. O'Keeffe, Y. Lin, B. O'Sullivan, C. Ozturk, L. Quesada, M. Siala, H. Simonis, N. Wilson	Assigning and Scheduling Service Visits in a Mixed Urban/Rural Setting	Yes	[20]	2020	Int. J. Artif. Intell. Tools	31	0	16	1255	1569
AntunesABD18 AntunesABD18	M. Antunes, V. Armant, Kenneth N. Brown, Daniel A. Desmond, G. Escamocher, A. George, D. Grimes, M. O'Keeffe, Y. Lin, B. O'Sullivan, C. Ozturk, L. Quesada, M. Siala, H. Simonis, N. Wilson	Assigning and Scheduling Service Visits in a Mixed Urban/Rural Setting	Yes	[19]	2018	ICTAI 2018	8	1	24	334	715
MurphyMB15 MurphyMB15	Seán Óg Murphy, O. Manzano, Kenneth N. Brown	Design and Evaluation of a Constraint-Based Energy Saving and Scheduling Recommender System	Yes	[455]	2015	CP 2015	17	1	20	542	776
WuBB09 WuBB09	Christine Wei Wu, Kenneth N. Brown, J. Christopher Beck	Scheduling with uncertain durations: Modeling beta-robust scheduling with constraints	Yes	[645]	2009	Computers Opera- tions Research	9	42	5	1475	1709
WuBB05 WuBB05	Christine Wei Wu, Kenneth N. Brown, J. Christopher Beck	Scheduling with Uncertain Start Dates	Yes	[644]	2005	CP 2005	1	0	0	633	908

D.51 5 Works by Bahman Naderi

Table 75: Works from bibtex (Total 5)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
NaderiRR23 NaderiRR23	B. Naderi, R. Ruiz, V. Roshanaei	Mixed-Integer Programming vs. Constraint Programming for Shop Scheduling Problems: New Results and Outlook	Yes	[462]	2023	INFORMS Journal on Computing	27	2	50	1408	1522
NaderiBZ22 NaderiBZ22	B. Naderi, Mehmet A. Begen, G. Zhang	Integrated Order Acceptance and Resource Decisions Under Uncertainty: Robust and Stochastic Approaches	Yes	[459]	2022	SSRN Electronic Journal	29	0	44	1406	1545
NaderiBZ22a NaderiBZ22a	B. Naderi, Mehmet A. Begen, Gregory S. Zaric	Type-2 integrated process-planning and scheduling problem: Reformulation and solution algorithms	Yes	[458]	2022	Computers Operations Research	19	3	44	1407	1546
NaderiR22 NaderiR22	B. Naderi, V. Roshanaei	Critical-Path-Search Logic-Based Benders Decomposition Approaches for Flexible Job Shop Scheduling	No	[460]	2022	INFORMS Journal on Optimization	null	5	49	No	1547
NaderiRBAU21 NaderiRBAU21	B. Naderi, V. Roshanaei, Mehmet A. Begen, Dionne M. Aleman, David R. Urbach	Increased Surgical Capacity without Additional Resources: Generalized Operating Room Planning and Scheduling	No	[461]	2021	Production and Operations Management	null	22	61	No	1562

D.52 5 Works by Mohamed Siala

Table 76: Works from bibtex (Total 5)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
AntunesABD20 AntunesABD20	M. Antunes, V. Armant, Kenneth N. Brown, Daniel A. Desmond, G. Escamocher, A. George, D. Grimes, M. O'Keeffe, Y. Lin, B. O'Sullivan, C. Ozturk, L. Quesada, M. Siala, H. Simonis, N. Wilson	Assigning and Scheduling Service Visits in a Mixed Urban/Rural Setting	Yes	[20]	2020	Int. J. Artif. Intell. Tools	31	0	16	1255	1569
AntunesABD18 AntunesABD18	M. Antunes, V. Armant, Kenneth N. Brown, Daniel A. Desmond, G. Escamocher, A. George, D. Grimes, M. O'Keeffe, Y. Lin, B. O'Sullivan, C. Ozturk, L. Quesada, M. Siala, H. Simonis, N. Wilson	Assigning and Scheduling Service Visits in a Mixed Urban/Rural Setting	Yes	[19]	2018	ICTAI 2018	8	1	24	334	715
Siala15 Siala15	M. Siala	Search, propagation, and learning in sequencing and scheduling problems	Yes	[553]	2015	Constraints An Int. J.	2	4	0	1450	1648
Siala15a Siala15a	M. Siala	Search, propagation, and learning in sequencing and scheduling problems. (Recherche, propagation et apprentissage dans les problèmes de séquençement et d'ordonnancement)	Yes	[554]	2015	INSA France Toulouse,	199	0	0	2830	n/a
SialaAH15 SialaAH15	M. Siala, C. Artigues, E. Hebrard	Two Clause Learning Approaches for Disjunctive Scheduling	Yes	[555]	2015	CP 2015	10	4	17	580	779

D.53 5 Works by Marek Vlk

Table 77: Works from bibtex (Total 5)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
abs-2305-19888 abs-2305-19888	V. Heinz, A. Novák, M. Vlk, Z. Hanzálek	Constraint Programming and Constructive Heuristics for Parallel Machine Scheduling with Sequence-Dependent Setups and Common Servers	Yes	[298]	2023	CoRR	42	0	0	1497	1528
HeinzNVH22 HeinzNVH22	V. Heinz, A. Novák, M. Vlk, Z. Hanzálek	Constraint Programming and constructive heuristics for parallel machine scheduling with sequence-dependent setups and common servers	Yes	[297]	2022	Computers Industrial Engineering	16	5	25	1344	1540
VlkHT21 VlkHT21	M. Vlk, Z. Hanzálek, S. Tang	Constraint programming approaches to joint routing and scheduling in time-sensitive networks	Yes	[625]	2021	Computers Industrial Engineering	14	7	22	1470	1565
BenediktSMVH18 BenediktSMVH18	O. Benedikt, P. Sucha, I. Módos, M. Vlk, Z. Hanzálek	Energy-Aware Production Scheduling with Power-Saving Modes	Yes	[87]	2018	CPAIOR 2018	10	2	12	367	718
BartakV15 BartakV15	R. Barták, M. Vlk	Reactive Recovery from Machine Breakdown in Production Scheduling with Temporal Distance and Resource Constraints	Yes	[59]	2015	ICAART 2015	12	0	0	354	764

D.54 5 Works by Nic Wilson

Table 78: Works from bibtex (Total 5)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
AntunesABD20 AntunesABD20	M. Antunes, V. Armant, Kenneth N. Brown, Daniel A. Desmond, G. Escamocher, A. George, D. Grimes, M. O'Keeffe, Y. Lin, B. O'Sullivan, C. Ozturk, L. Quesada, M. Siala, H. Simonis, N. Wilson	Assigning and Scheduling Service Visits in a Mixed Urban/Rural Setting	Yes	[20]	2020	Int. J. Artif. Intell. Tools	31	0	16	1255	1569
AntunesABD18 AntunesABD18	M. Antunes, V. Armant, Kenneth N. Brown, Daniel A. Desmond, G. Escamocher, A. George, D. Grimes, M. O'Keeffe, Y. Lin, B. O'Sullivan, C. Ozturk, L. Quesada, M. Siala, H. Simonis, N. Wilson	Assigning and Scheduling Service Visits in a Mixed Urban/Rural Setting	Yes	[19]	2018	ICTAI 2018	8	1	24	334	715
BeckW07 BeckW07	J. Christopher Beck, N. Wilson	Proactive Algorithms for Job Shop Scheduling with Probabilistic Durations	Yes	[73]	2007	J. Artif. Intell. Res.	50	27	0	1273	1718
BeckW05 BeckW05	J. Christopher Beck, N. Wilson	Proactive Algorithms for Scheduling with Probabilistic Durations	Yes	[72]	2005	IJCAI 2005	6	0	0	361	891
BeckW04 BeckW04	J. Christopher Beck, N. Wilson	Job Shop Scheduling with Probabilistic Durations	Yes	[71]	2004	ECAI 2004	5	0	0	360	910

E Other Works

E.1 Books from bibtex

Table 79: Works from bibtex (Total 3)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
ArtiguesDN08 ArtiguesDN08		Resource Constrained Project Scheduling	No	[31]	2008	Book	null	63	0	No	n/a
BaptistePN01 BaptistePN01	P. Baptiste, Claude Le Pape, W. Nuijten	Constraint-Based Scheduling	No	[50]	2001	Book	null	296	0	No	n/a
Hooker00 Hooker00	John N. Hooker	Logic Based Methods for Optimization: Combining Optimization and Constraint Satisfaction	No	[306]	2000	Book	null	185	0	No	n/a

E.2 PhDThesis from bibtex

Table 80: Works from bibtex (Total 27)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
Astrand21 Astrand21	M. Åstrand	Short-term Underground Mine Scheduling: An Industrial Application of Constraint Programming	Yes	[35]	2021	Royal Institute of Technology, Stockholm, Sweden	142	0	0	2805	n/a
Godet21a Godet21a	A. Godet	Sur le tri de tâches pour résoudre des problèmes d'ordonnancement avec la programmation par contraintes. (On the use of tasks ordering to solve scheduling problems with constraint programming)	Yes	[248]	2021	IMT Atlantique Bretagne Pays de la Loire, Brest, France	168	0	0	2817	n/a
Groleaz21 Groleaz21	L. Groleaz	The Group Cumulative Scheduling Problem	Yes	[263]	2021	Université de Lyon	153	0	0	2818	n/a
Lemos21 Lemos21	Alexandre Duarte de Almeida Lemos	Solving scheduling problems under disruptions	Yes	[383]	2021	UNIVERSIDADE DE LISBOA INSTITUTO SUPERIOR TÉCNICO	188	0	0	2821	n/a
Zahout21 Zahout21	B. Zahout	Algorithmes exacts et approchés pour l'ordonnancement des travaux multiressources à intervalles fixes dans des systèmes distribués : approche monocritère et multiagent	Yes	[654]	2021	Université de Tours - LIFAT	185	0	0	2831	n/a
Lunardi20 Lunardi20	Willian Tessaro Lunardi	A Real-World Flexible Job Shop Scheduling Problem With Sequencing Flexibility: Mathematical Programming, Constraint Programming, and Metaheuristics	Yes	[416]	2020	University of Luxembourg, Luxembourg City, Luxembourg	181	0	0	2824	n/a
Caballero19 Caballero19	Jordi Coll Caballero	Scheduling Through Logic-Based Tools	Yes	[127]	2019	Universitat de Girona, Spain	194	0	0	2808	n/a
German18 German18	G. German	Constraint programming for lot-sizing problems	Yes	[242]	2018	Université Grenoble Alpes	112	0	0	2816	n/a
Dejemeppe16 Dejemeppe16	C. Dejemeppe	Constraint programming algorithms and models for scheduling applications	Yes	[173]	2016	Catholic University of Louvain, Louvain-la-Neuve, Belgium	274	0	0	2810	n/a
Fahimi16 Fahimi16	H. Fahimi	Efficient algorithms to solve scheduling problems with a variety of optimization criteria	Yes	[206]	2016	Université Laval, Quebec, Canada	120	0	0	2814	n/a
Froger16 Froger16	A. Froger	Maintenance scheduling in the electricity industry : a particular focus on a problem rising in the onshore wind industry	Yes	[224]	2016	Université d'Angers	181	0	0	2815	n/a
Nattaf16 Nattaf16	M. Nattaf	Ordonnancement sous contraintes d'énergie	Yes	[463]	2016	UPS Toulouse - Université Toulouse 3 Paul Sabatier	199	0	0	2828	n/a
Derrien15 Derrien15	A. Derrien	Ordonnancement cumulatif en programmation par contraintes : caractérisation énergétique des raisonnements et solutions robustes. (Cumulative scheduling in constraint programming : energetic characterization of reasoning and robust solutions)	Yes	[179]	2015	École des mines de Nantes, France	113	0	0	2812	n/a
Siala15a Siala15a	M. Siala	Search, propagation, and learning in sequencing and scheduling problems. (Recherche, propagation et apprentissage dans les problèmes de séquençement et d'ordonnancement)	Yes	[554]	2015	INSA Toulouse, France	199	0	0	2830	n/a
Kameugne14 Kameugne14	R. Kameugne	Techniques de Propagation de la Contrainte de Ressource en Ordonnancement Cumulatif	Yes	[335]	2014	University of Yaounde I, Cameroon	139	0	0	2819	n/a
Letort13 Letort13	A. Letort	Passage à l'échelle pour les contraintes d'ordonnancement multi-ressources	Yes	[384]	2013	Ecole des Mines de Nantes	132	0	0	2822	n/a

Table 80: Works from bibtex (Total 27)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
Clerc12 Clercq12	Alexis de Clercq	Ordonnancement cumulatif avec dépassements de capacité : Contrainte globale et décompositions	Yes	[170]	2012	Ecole des Mines de Nantes	196	0	0	2809	n/a
Malapert11 Malapert11	A. Malapert	Techniques d'ordonnancement d'atelier et de fournées basées sur la programmation par contraintes. (Shop and batch scheduling with constraints)	Yes	[422]	2011	École des mines de Nantes, France	194	0	0	2825	n/a
Menana11 Menana11	J. Menana	Automates et programmation par contraintes pour la planification de personnel. (Automata and Constraint Programming for Personnel Scheduling Problems)	Yes	[434]	2011	University of Nantes, France	148	0	0	2827	n/a
Schutt11 Schutt11	A. Schutt	Improving Scheduling by Learning	Yes	[536]	2011	University of Melbourne, Australia	209	0	0	2829	n/a
Lombardi10 Lombardi10	M. Lombardi	Hybrid Methods for Resource Allocation and Scheduling Problems in Deterministic and Stochastic Environments	Yes	[400]	2010	University of Bologna, Italy	175	0	0	2823	n/a
Malik08 Malik08	Abid M. Malik	Constraint Programming Techniques for Optimal Instruction Scheduling	Yes	[426]	2008	University of Waterloo, Ontario, Canada	151	0	0	2826	n/a
Demasse03 Demasse03	S. Demasse	Méthodes hybrides de programmation par contraintes et programmation linéaire pour le problème d'ordonnancement de projet à contraintes de ressources. (Hybrid Constraint Programming-Integer Linear Programming approaches for the Resource-Constrained Project Scheduling Problem)	Yes	[176]	2003	University of Avignon, France	148	0	0	2811	n/a
Elkhyari03 Elkhyari03	A. Elkhyari	Outils d'aide à la décision pour des problèmes d'ordonnancement dynamiques	Yes	[197]	2003	Université de Nantes	333	0	0	2813	n/a
Baptiste02 Baptiste02	P. Baptiste	Résultats de complexité et programmation par contraintes pour l'ordonnancement	Yes	[44]	2002	Université de Technologie de Compiègne	237	0	0	2806	n/a
Layfield02 Layfield02	Colin J. Layfield	A constraint programming pre-processor for duty scheduling	Yes	[382]	2002	University of Leeds, UK	230	0	0	2820	n/a
Beck99 Beck99	J. Christopher Beck	Texture measurements as a basis for heuristic commitment techniques in constraint-directed scheduling	Yes	[62]	1999	University of Toronto, Canada	418	0	0	2807	n/a

Table 81: Automatically Extracted THESIS Properties (Requires Local Copy)

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
Astrand21 [35]	142	distributed, due-date, job-shop, flow-shop, resource, transportation, open-shop, machine, job, re-scheduling, precedence, order, inventory, tardiness, activity, setup-time, preempt, release-date, scheduling, make-span, completion-time, task, sequence dependent setup	RCPSP, parallel machine, HFS, single machine	cumulative, alldifferent, cycle, circuit, disjunctive, Disjunctive constraint, Reified constraint	C++, Julia	Cplex, OPL, Gecode	satellite, drone, agri-culture, semiconductor, robot	mineral industry, mining industry, maritime industry, potash industry, shipping industry	real-world, generated instance, real-life, benchmark	time-tabling, not-first, not-last, edge-finding, NEH	2778	n/a
Baptiste02 [44]	237	re-scheduling, resource, release-date, scheduling, preempt, flow-time, task, job-shop, machine, activity, make-span, flow-shop, job, completion-time, precedence, distributed, inventory, no preempt, setup-time, due-date, open-shop, tardiness, order, lateness, earliness, cmax, sequence dependent setup	Open Shop Scheduling Problem, PJSSP, HFS, single machine, RCPSP, OSSP, parallel machine, JSSP	cumulative, circuit, disjunctive, Cardinality constraint, Disjunctive constraint, alternative constraint, table constraint, Arithmetic constraint	Prolog, C++	Choco Solver, Claire, Ilog Solver, OPL, CHIP, ECLiPSe, Ilog Scheduler, Z3	hoist		real-life, generated instance, benchmark	not-first, energetic reasoning, not-last, edge-finding	2802	n/a
Beck99 [62]	418	due-date, multi-agent, order, distributed, preempt, scheduling, inventory, machine, release-date, job-shop, task, tardiness, activity, transportation, stock level, precedence, make-span, re-scheduling, resource, job, producer/consumer	single machine	cumulative, Disjunctive constraint, circuit, disjunctive	Prolog, C++	Ilog Solver, CHIP, Ilog Scheduler, OPL	robot, medical		benchmark, real-world	not-last, edge-finding, not-first	2804	n/a
Caballero19 [127]	194	resource, machine, setup-time, preempt, lazy clause generation, task, order, activity, distributed, precedence, release-date, cmax, make-span, scheduling, completion-time	psplib, RCPSP	alldifferent, circuit, Cardinality constraint, cycle, Arithmetic constraint, cumulative	C++	SCIP, CHIP, Z3, CPO, Chuffed, MiniZinc, OPL			benchmark, real-life, instance generator	energetic reasoning, GRASP, time-tabling, edge-finding, bi-partite matching	2784	n/a
Clerc12 [170]	196	task, order, machine, job, manpower, activity, job-shop, make-span, resource, scheduling, due-date	psplib	Cumulatives constraint, alldifferent, cumulative, disjunctive, SoftCumulativeSum, circuit, SoftCumulative	Prolog	ECLiPSe, SICStus, Choco Solver, CHIP, Gecode	patient		benchmark	not-last, energetic reasoning, edge-finding, sweep, time-tabling, not-first	2794	n/a

Table 81: Automatically Extracted THESIS Properties (Requires Local Copy)

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
Dejemeppe16 [173]	274	make-span, sequence dependent setup, open-shop, order, job, activity, continuous-process, machine, preempt, release-date, flow-shop, batch process, tardiness, scheduling, completion-time, re-scheduling, resource, setup-time, earliness, due-date, no-wait, task, job-shop, lateness, precedence	PTC, psplib, single machine, RCPSP	disjunctive, cumulative, Element constraint, Reified constraint, Cumulatives constraint, alldifferent, GCC constraint, cycle, circuit, Disjunctive constraint, Cardinality constraint, Regular constraint		Ilog Solver, OPL, Gecode, CHIP, OR-Tools, CPO	medical, patient, super-computer, nurse, physician, robot, container terminal	paper industry	benchmark, instance generator, generated instance, industrial partner, random instance, real-world, bitbucket	not-first, not-last, sweep, edge-finding	2786	n/a
Demasse03 [176]	148	machine, job, precedence, Benders Decomposition, release-date, job-shop, open-shop, activity, flow-shop, order, resource, scheduling, preempt, task	single machine, CuSP, psplib, RCPSP, TCSP	circuit, cumulative, disjunctive, cycle	C++	Cplex, Claire, Ilog Solver			benchmark	not-last, edge-finding, time-tabling, not-first	2800	n/a
Derrien15 [179]	113	scheduling, precedence, order, make-span, task, activity, job-shop, resource, machine, job, preempt, open-shop	psplib, CuSP	Disjunctive constraint, cumulative, alldifferent, circuit, disjunctive		Claire, Choco Solver	robot		benchmark	edge-finding, sweep, time-tabling, energetic reasoning	2790	n/a
Elkhyari03 [197]	333	scheduling, task, job-shop, machine, activity, make-span, flow-shop, cmax, open-shop, tardiness, order, preempt, re-scheduling, resource, job, precedence, release-date	RCPSP, CuSP, parallel machine, Temporal Constraint Satisfaction Problem, single machine	cycle, cumulative, disjunctive		CPO, Choco Solver, Claire			benchmark, Roadef	time-tabling	2801	n/a
Fahimi16 [206]	120	completion-time, flow-shop, precedence, batch process, setup-time, due-date, task, open-shop, order, make-span, machine, job, activity, resource, lateness, job-shop, transportation, sequence dependent setup, preempt, tardiness, scheduling, Benders Decomposition	single machine, CuSP, parallel machine, RCPSP	Disjunctive constraint, Cardinality constraint, Cumulatives constraint, alldifferent, cycle, AllD-iff constraint, cumulative, alternative constraint, disjunctive	Java, C++	Choco Solver, CHIP, Ilog Scheduler, Gecode	aircraft		benchmark, random instance, real-world, Roadef	time-tabling, not-first, not-last, energetic reasoning, edge-finding, max-flow, sweep	2787	n/a

Table 81: Automatically Extracted THESIS Properties (Requires Local Copy)

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
Froger16 [224]	181	preempt, distributed, resource, inventory, scheduling, Benders Decomposition, batch process, re-scheduling, task, order, completion-time, machine, job, manpower, release-date, transportation	single machine, CuSP, TMS	disjunctive, cycle, cumulative	Java	Gurobi, OZ, Choco Solver	satellite, energy-price, offshore	power industry, electricity industry, energy industry, wind industry	benchmark, real-life, real-world, industrial partner, instance generator, Roadeff, generated instance	max-flow	2788	n/a
German18 [242]	112	stock level, setup-time, job, task, activity, earliness, machine, resource, job-shop, cmax, order, inventory, scheduling		Disjunctive constraint, Cardinality constraint, bin-packing, Balance constraint, cumulative, Among constraint, disjunctive	Prolog	Z3, SICS-tus, OPL, Choco Solver, Cplex	nurse		real-world, benchmark, real-life, CSPlib, generated instance		2785	n/a
Godet21a [248]	168	open-shop, release-date, make-span, transportation, machine, lazy clause generation, distributed, resource, lateness, job-shop, flow-shop, precedence, cmax, preempt, due-date, order, scheduling, Benders Decomposition, completion-time, job, task, activity	single machine, RCPSP, parallel machine, JSSP, PMSP, psplib	AllDiff constraint, bin-packing, GeneralizedAllDiff-Prec, disjunctive, BinPacking constraint, cumulative, AllDiffPrec constraint, Disjunctive constraint, Element constraint, alldifferent, Cardinality constraint, cycle circuit, disjunctive constraint, span constraint, cumulative, cycle, noOverlap		OR-Tools, OPL, Claire, Choco Solver, Chuffed, MiniZinc, CHIP	satellite, robot, railway	electricity industry	real-life, github, generated instance, benchmark, random instance	sweep, time-tabling, edge-finding	2779	n/a
Groleaz21 [263]	153	inventory, tardiness, activity, setup-time, preempt, release-date, earliness, scheduling, make-span, completion-time, task, sequence dependent setup, distributed, due-date, job-shop, flow-shop, resource, transportation, cmax, open-shop, machine, job, lateness, re-scheduling, precedence, order	Open Shop Scheduling Problem, single machine, GCSP, RCPSP, OSP, parallel machine		Julia, Java	Choco Solver, Z3, OPL, OR-Tools, Gurobi, CPO, Gecode, SCIP, Cplex	dairy, robot, automotive	food industry, agrifood industry, dairy industry	benchmark, real-life	edge-finding, not-first, not-last	2780	n/a
Kameugne14 [335]	139	resource, job, scheduling, task, job-shop, machine, make-span, flow-shop, completion-time, order, preempt	RCPSP, CuSP, parallel machine, psplib	circuit, Disjunctive constraint, Cumulatives constraint, Balance constraint, cumulative, disjunctive	Java, Prolog, C++	Choco Solver, Claire, Gecode, CHIP, ECLiPSe, SICStus, Cplex, Mistral			Roadeff	not-last, edge-finder, energetic reasoning, time-tabling, edge-finding, not-first	2792	n/a

Table 81: Automatically Extracted THESIS Properties (Requires Local Copy)

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
Layfield02 [382]	230				C	OPL, Z3, OZ,					2803	n/a
Lemos21 [383]	188	transportation, precedence, job-shop, machine, re-scheduling, distributed, multi-agent, task, job, order, resource, scheduling	RCPSP	cycle, alldifferent, cumulative, Cardinality constraint	Java, C++, Python	OPL, Gurobi, Cplex	surgery, COVID, medical, crew-scheduling, railway	railway industry	real-world, github, real-life, benchmark, Roadeff	GRASP, time-tabling	2781	n/a
Letort13 [384]	132	machine, resource, job-shop, precedence, cmax, order, scheduling, job, task	psplib	bin-packing, alldifferent, cumulative, geost, Cumulatives constraint, disjunctive	Java, Prolog	SICStus, Claire, Choco Solver, CHIP	steel mill, datacenter		Roadef, CSPLib, benchmark	energetic reasoning, edge-finding, sweep, not-first, time-tabling, not-last	2793	n/a
Lombardi10 [400]	175	re-scheduling, make-span, job, precedence, Benders Decomposition, lazy clause generation, release-date, distributed, setup-time, job-shop, due-date, activity, completion-time, order, inventory, tardiness, resource, scheduling, preempt, task, machine	single machine, SCC, CTW, RCPSP, TCSP	Disjunctive constraint, cycle, Balance constraint, AllDiff constraint, cumulative, disjunctive, table constraint, span constraint, bin-packing, circuit	C	OPL, Cplex, Ilog Solver	aircraft, pipeline, semiconductor, medical, automotive	semiconductor industry	generated instance, benchmark, real-world, instance generator, real-life	not-last, sweep, edge-finder, edge-finding, energetic reasoning, time-tabling, not-first	2798	n/a
Lunardi20 [416]	181	activity, setup-time, release-date, scheduling, make-span, task, cmax, machine, job, lateness, re-scheduling, no preempt, due-date, job-shop, batch process, preempt, flow-shop, resource, transportation, open-shop, precedence, order, completion-time, tardiness	FJS, parallel machine, single machine	cycle, noOverlap, endBeforeStart, alldifferent, disjunctive	Python	CPO, OPL, Cplex	robot	printing industry, glass industry	industrial partner, instance generator, benchmark, random instance, github, supplementary material, real-world, generated instance, real-life		2783	n/a
Malapert11 [422]	194	tardiness, order, lateness, preempt, cmax, batch process, transportation, resource, scheduling, flow-time, task, job-shop, machine, activity, make-span, no-wait, flow-shop, job, completion-time, precedence, inventory, setup-time, due-date, open-shop	Open Shop Scheduling Problem, single machine	cumulative, diffn, circuit, disjunctive, geost, cycle, alldifferent, Element constraint, bin-packing, Disjunctive constraint, Cumulatives constraint	Prolog, C++, Java	Mistral, Choco Solver, Claire, Gecode, ECLiPSe, SICStus, Cplex, OPL, CHIP, Ilog Scheduler	rectangle-packing, robot, semiconductor, patient		real-world, industrial partner, generated instance, benchmark	edge-finding, not-first, energetic reasoning, not-last, time-tabling, sweep	2795	n/a
Malik08 [426]	151	order, machine, completion-time, activity, distributed, precedence, task, job, resource, make-span, scheduling		alldifferent, Cardinality constraint, cycle			pipeline		real-life, benchmark	edge-finding	2799	n/a

Table 81: Automatically Extracted THESIS Properties (Requires Local Copy)

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
Menana11 [434]	148	machine, task, manpower, activity, distributed, resource, precedence, scheduling		Regular constraint, alldifferent, Cardinality constraint	Prolog	Z3, CHIP, OPL, Claire, Choco Solver	nurse		Roadef, github, benchmark	time-tabling	2796	n/a
Nattaf16 [463]	199	order, tardiness, inventory, scheduling, flow-shop, setup-time, job, task, make-span, machine, resource, job-shop, cmax, preempt, due-date	RCPSP, CECSP, psplib, single machine, CuSP, parallel machine	alldifferent, cumulative, disjunctive	C++	Claire, Cplex	robot	process industry	Roadef	energetic reasoning, edge-finding, sweep	2789	n/a
Schutt11 [536]	209	lazy clause generation, resource, job-shop, precedence, cmax, preempt, order, tardiness, scheduling, completion-time, machine, setup-time, job, task, activity, open-shop, release-date, make-span	RCPSP, Open Shop Scheduling Problem, psplib	disjunctive, Arithmetic constraint, UTVPI constraint, cumulative, circuit, bin-packing, Reified constraint, Disjunctive constraint, Element constraint, alldifferent, cycle, geost	Prolog, C++	CHIP, SICStus, Ilog Scheduler, SCIP, ECLiPSe, Ilog Solver	rectangle-packing	carpet industry	benchmark, real-world, industrial instance, instance generator	sweep, edge-finder, time-tabling, not-first, energetic reasoning, edge-finding, not-last	2797	n/a
Siala15a [554]	199	job-shop, precedence, earliness, cmax, sequence dependent setup, due-date, lazy clause generation, order, tardiness, scheduling, setup-time, task, activity, open-shop, make-span, machine, job, resource	RCPSP, OSP, single machine, TMS	AtMostSeq, table constraint, Balance constraint, cumulative, circuit, Among constraint, AmongSeq constraint, disjunctive, Atmost constraint, Regular constraint, Disjunctive constraint, GCC constraint, Cardinality constraint, Card-Path, MultiAt-MostSeqCard, AtMostSeq-Card, Reified constraint, alldifferent, cycle		CHIP, Ilog Solver, Mistral, OPL, Claire	automotive, rectangle-packing		github, benchmark, random instance, Roadef, real-world, CSPLib	time-tabling, edge-finding, GRASP	2791	n/a

Table 81: Automatically Extracted THESIS Properties (Requires Local Copy)

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
Zahout21 [654]	185	completion-time, machine, job, activity, release-date, make-span, multi-agent, distributed, resource, job-shop, flow-shop, precedence, preempt, due-date, re-scheduling, task, scheduling	CuSP, parallel machine, RCPSP, SCC, TCSP, single machine	cycle, cumulative, circuit, bin-packing		CPO, Cplex, Claire	datacenter, crew-scheduling, satellite		benchmark	GRASP	2782	n/a

E.3 InBook from bibtex

Table 82: Works from bibtex (Total 12)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
SchuttFSW15 SchuttFSW15	A. Schutt, T. Feydy, Peter J. Stuckey, Mark G. Wallace	A Satisfiability Solving Approach	No	[544]	2015	Handbook on Project Management and Scheduling Vol.1	26	3	28	No	n/a
CestaOPS14 CestaOPS14	A. Cesta, A. Oddi, N. Policella, Stephen F. Smith	A Precedence Constraint Posting Approach	No	[144]	2014	Handbook on Project Management and Scheduling Vol.1	null	2	17	No	n/a
GuSSWC14 GuSSWC14	H. Gu, A. Schutt, Peter J. Stuckey, Mark G. Wallace, G. Chu	Exact and Heuristic Methods for the Resource-Constrained Net Present Value Problem	No	[268]	2014	Handbook on Project Management and Scheduling Vol.1	null	5	35	No	n/a
Milano11 Milano11	M. Milano	Constraint Programming Links with Math Programming	No	[440]	2011	Wiley Encyclopedia of Operations Research and Management Science	null	0	28	No	n/a
CastroGR10 CastroGR10	Pedro M. Castro, Ignacio E. Grossmann, L. Rousseau	Decomposition Techniques for Hybrid MILP/CP Models applied to Scheduling and Routing Problems	No	[139]	2010	Hybrid Optimization	null	0	67	No	n/a
Hooker10 Hooker10	John N. Hooker	Hybrid Modeling	No	[312]	2010	Hybrid Optimization	null	9	39	No	n/a
AggounMV08 AggounMV08	A. Aggoun, C. Maravelias, A. Vazacopoulos	Mixed Integer Programming/Constraint Programming Hybrid Methods	No	[10]	2008	Encyclopedia of Optimization	null	0	34	No	n/a
NeronABCDD06 NeronABCDD06	E. Néron, C. Artigues, P. Baptiste, J. Carlier, J. Damay, S. Demassey, P. Laborie	Lower Bounds for Resource Constrained Project Scheduling Problem	No	[483]	2006	Perspectives in Modern Project Scheduling	null	3	34	No	n/a
AjiliW04 AjiliW04	F. Ajili, Mark G. Wallace	Hybrid Problem Solving in ECLiPSe	No	[12]	2004	Constraint and Integer Programming	null	4	24	No	n/a
DannaP04 DannaP04	E. Danna, Claude Le Pape	Two Generic Schemes for Efficient and Robust Cooperative Algorithms	No	[162]	2004	Constraints and Integer Programming	null	2	34	No	n/a
DomdorfPH03 DomdorfPH03	U. Domdorf, E. Pesch, Toản Phan Huy	Machine Learning by Schedule Decomposition — Prospects for an Integration of AI and OR Techniques for Job Shop Scheduling	No	[186]	2003	Advances in Evolutionary Computing	null	0	57	No	n/a
DorndorfHPP99 DorndorfHPP99	U. Dorndorf, Toản Phan Huy, E. Pesch	A Survey of Interval Capacity Consistency Tests for Time- and Resource-Constrained Scheduling	No	[188]	1999	Project Scheduling	null	18	20	No	n/a

E.4 InCollection from bibtex

Table 83: Works from bibtex (Total 7)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
BlazewiczEP19 BlazewiczEP19	J. Blazewicz, Klaus H. Ecker, E. Pesch, G. Schmidt, M. Sterna, J. Weglarz	Constraint Programming and Disjunctive Scheduling	No	[97]	2019	Handbook on Scheduling	62	38	0	No	n/a
Hooker19 Hooker19	John N. Hooker	Logic-Based Benders Decomposition for Large-Scale Optimization	Yes	[314]	2019	Large Scale Optimization in Supply Chains and Smart Manufacturing	26	8	0	2851	n/a
HurleyOS16 HurleyOS16	B. Hurley, B. O'Sullivan, H. Simonis	ICON Loop Energy Show Case	Yes	[321]	2016	Data Mining and Constraint Programming - Foundations of a Cross-Disciplinary Approach	14	0	16	2852	n/a
Bartak14 Bartak14	R. Barták	Planning and Scheduling	No	[55]	2014	Computing Handbook, Third Edition: Computer Science and Software Engineering	null	0	0	No	n/a
BaptisteLPN06 BaptisteLPN06	P. Baptiste, P. Laborie, Claude Le Pape, W. Nuijten	Constraint-Based Scheduling and Planning	No	[47]	2006	Handbook of Constraint Programming	39	30	25	No	n/a
KanetAG04 KanetAG04	John J. Kanet, S. Ahire, Michael F. Gorman	Constraint Programming for Scheduling	Yes	[341]	2004	Handbook of Scheduling - Algorithms, Models, and Performance Analysis	22	0	0	2853	n/a
BreitingerL95 BreitingerL95	S. Breitinger, Hendrik C. R. Lock	Using Constraint Logic Programming for Industrial Scheduling Problems	No	[120]	1995	Logic Programming: Formal Methods and Practical Applications, Studies in Computer Science and Artificial Intelligence	27	0	0	No	n/a

Table 84: Automatically Extracted INCOLLECTION Properties (Requires Local Copy)

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
Hooker19 [314]	26	machine, job, task, activity, release-date, make-span, transportation, distributed, resource, job-shop, sequence dependent setup, due-date, order, tardiness, inventory, scheduling, Benders Decomposition	parallel machine, single machine	cycle, disjunctive, cumulative, circuit		OPL, MiniZinc	container terminal, satellite, torpedo, yard crane, operating room, patient, railway, aircraft		industrial instance	in-time-tabling	2845	n/a
HurleyOS16 [321]	14	re-scheduling, resource, scheduling, task, machine, distributed, order		cumulative			energy-price, super-computer, datacentre		real-world, benchmark		2846	n/a
KanetAG04 [341]	22	precedence, order, make-span, completion-time, task, tardiness, activity, earliness, due-date, job-shop, resource, machine, job, inventory, setup-time, transportation, scheduling	single machine, parallel machine	Disjunctive constraint, alldifferent, disjunctive		ECLiPSe, Cplex, Ilog Solver, OPL	patient			time-tabling	2849	n/a

F Background Works

Table 85: Works from bibtex (Total 23)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
HartmannB22 HartmannB22	S. Hartmann, D. Briskorn	An updated survey of variants and extensions of the resource-constrained project scheduling problem	Yes	[283]	2022	European Journal of Operational Research	14	55	196	No	n/a
LamGSHD20 LamGSHD20	E. Lam, G. Gange, Peter J. Stuckey, Pascal Van Hentenryck, Jip J. Dekker	Nutmeg: a MIP and CP Hybrid Solver Using Branch-and-Check	Yes	[378]	2020	SN Operations Research Forum	27	7	28	No	n/a
RahmanianiCGR17 RahmanianiCGR17	R. Rahmaniani, Teodor Gabriel Crainic, M. Gendreau, W. Rei	The Benders decomposition algorithm: A literature review	Yes	[517]	2017	European Journal of Operational Research	17	386	113	No	n/a
HartmannB10 HartmannB10	S. Hartmann, D. Briskorn	A survey of variants and extensions of the resource-constrained project scheduling problem	Yes	[282]	2010	European Journal of Operational Research	14	577	177	No	n/a
YunesAH10 YunesAH10	T. Yunes, Ionuț D. Aron, John N. Hooker	An Integrated Solver for Optimization Problems	Yes	[649]	2010	Operations Research CP 2007	16	25	38	No	n/a
NethercoteSBBDT07 NethercoteSBBDT07	N. Nethercote, Peter J. Stuckey, R. Becket, S. Brand, Gregory J. Duck, G. Tack	MiniZinc: Towards a Standard CP Modelling Language	Yes	[470]	2007	CP 2007	15	344	5	No	n/a
KolischH06 KolischH06	R. Kolisch, S. Hartmann	Experimental investigation of heuristics for resource-constrained project scheduling: An update	Yes	[351]	2006	European Journal of Operational Research	15	503	62	No	n/a
BockmayrH05 BockmayrH05	A. Bockmayr, John N. Hooker	Constraint Programming	Yes	[102]	2005	Handbooks in Operations Research and Management Science	42	12	52	No	n/a
AronHY2004 AronHY2004	I. Aron, John N. Hooker, Tallys H. Yunes	SIMPL: A System for Integrating Optimization Techniques	Yes	[28]	2004	CPAIOR 2004	16	16	23	No	n/a
BruckerDMNP99 BruckerDMNP99	P. Brucker, A. Drexl, R. Möhring, K. Neumann, E. Pesch	Resource-constrained project scheduling: Notation, classification, models, and methods	Yes	[123]	1999	European Journal of Operational Research	39	990	137	No	n/a
Shaw98 Shaw98	P. Shaw	Using Constraint Programming and Local Search Methods to Solve Vehicle Routing Problems	Yes	[550]	1998	CP 1998	15	630	11	No	n/a
KolischS97 KolischS97	R. Kolisch, A. Sprecher	PSPLIB - A project scheduling problem library	Yes	[352]	1997	European Journal of Operational Research	12	840	18	No	n/a
CarlierP94 CarlierP94	J. Carlier, E. Pinson	Adjustment of heads and tails for the job-shop problem	Yes	[136]	1994	European Journal of Operational Research	16	151	10	No	n/a
Taillard93 Taillard93	E. Taillard	Benchmarks for basic scheduling problems	Yes	[573]	1993	European Journal of Operational Research	8	1568	6	No	n/a
ApplegateC91 ApplegateC91	D. Applegate, W. Cook	A Computational Study of the Job-Shop Scheduling Problem	Yes	[23]	1991	ORSA Journal on Computing	8	536	0	No	n/a
DechterMP91 DechterMP91	R. Dechter, I. Meiri, J. Pearl	Temporal constraint networks	Yes	[172]	1991	Artificial Intelligence	35	879	28	No	n/a
CarlierP90 CarlierP90	J. Carlier, E. Pinson	A practical use of Jackson's preemptive schedule for solving the job shop problem	Yes	[135]	1990	Annals of Operations Research	19	112	11	No	n/a
CarlierP89 CarlierP89	J. Carlier, E. Pinson	An Algorithm for Solving the Job-Shop Problem	Yes	[134]	1989	Management Science	14	516	0	No	n/a
AdamsBZ88 AdamsBZ88	J. Adams, E. Balas, D. Zawack	The Shifting Bottleneck Procedure for Job Shop Scheduling	Yes	[6]	1988	Management Science	12	1054	0	No	n/a
DincbasHSAGB88 DincbasHSAGB88	M. Dincbas, Pascal Van Hentenryck, H. Simonis, A. Aggoun, T. Graf, F. Berthier	The Constraint Logic Programming Language CHIP	Yes	[184]	1988	FGCS 1988	10	0	0	No	n/a

Table 85: Works from bibtex (Total 23)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School		Pages	Nr Cites	Nr Refs	b	c
BlazewiczLK83	J. Blazewicz, Jan Karel Lenstra, A. H. G.	Scheduling subject to resource constraints:	Yes	[98]	1983	Discret.	Appl.	14	947	6	No	n/a
BlazewiczLK83	Rinnooy Kan	classification and complexity				Math.						
Lauriere78 Lauriere78	J. Lauriere	A language and a program for stating and solving	No	[381]	1978	Artificial	Intelli-	null	149	14	No	n/a
		combinatorial problems				gence						
Benders62 Benders62	Jacques F. Benders	Partitioning procedures for solving mixed-variables	Yes	[85]	1962	Numerische	Mathe-	15	2583	6	No	n/a
		programming problems				matik						