CP Papers on Scheduling

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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: 659)

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 [616]	AkramNHRSA23 [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]
BonfillGSV15 [105]	BogaerdtW19 [617]	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]	BreitingerL95 [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]	Demassey03 [176]	DemasseyAM05 [177]	DemirovicS18 [178]	Derrien15 [179]	DerrienP14 [180]
DerrienPZ14 [181]	DilkinaDH05 [183]	DincbasSH90 [185]	DomdorfPH03 [186]	DoomsH08 [187]	DorndorfHP99 [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]
ErtlK91 [201]	EscobetPQPRA19 [202]	EtminaniesfahaniGNMS22 [203]	EvenSH15 [204]	EvenSH15a [205]	Fahimi16 [206]
FahimiOQ18 [207]	FahimiQ23 [208]	FalaschiGMP97 [209]	FallahiAC20 [210]	FanXG21 [211]	FarsiTM22 [212]
Fatemi-AnarakiTFV23 [213]	FetgoD22 [215]	FocacciLN00 [216]	FontaineMH16 [217]	ForbesHJST24 [218]	FortinZDF05 [219]
FoxAS82 [220]	FrankK05 [221]	FriedrichFMRSST14 [222]	FrimodigS19 [223]	Froger16 [224]	FrohnerTR19 [225]
FrostD98 [226]	GalleguillosKSB19 [227]	GarganiR07 [228]	GarridoAO09 [229]	GarridoOS08 [230]	GayHLS15 [231]

Table 1: Key Overview (Total: 659)

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]
GokGSTO20 [251]	GokPTGO23 [275]	GokgurHO18 [252]	GoldwaserS17 [253]	GoldwaserS18 [254]	Goltz95 [255]
GombolayWS18 [256]	GomesHS06 [257]	GomesM17 [258]	GrimesH10 [259]	GrimesH11 [260]	GrimesH15 [261]
GrimesHM09 [262]	GrimesIOS14 [263]	Groleaz21 [264]	GroleazNS20 [266]	GroleazNS20a [265]	GruianK98 [267]
GuSS13 [268]	GuSSWC14 [269]	GuSW12 [270]	GuoHLW20 [271]	GuoZ23 [272]	GurEA19 [682]
GurPAE23 [273]	GuyonLPR12 [274]	HachemiGR11 [276]	Ham18 [277]	Ham18a [278]	HamC16 [280]
HamPK21 [279]	HanenKP21 [281]	HarjunkoskiG02 [282]	HarjunkoskiMBC14 [283]	HauderBRPA20 [287]	He0GLW18 [288]
HebrardALLCMR22 [289]	HebrardHJMPV16 [290]	HebrardTW05 [291]	HechingH16 [292]	HeckmanB11 [293]	HeinzB12 [294]
HeinzKB13 [295]	HeinzNVH22 [299]	HeinzS11 [297]	HeinzSB13 [298]	HeinzSSW12 [296]	HeipckeCCS00 [301]
HentenryckM04 [302]	HentenryckM08 [303]	HermenierDL11 [304]	HillBCGN22 [305]	HillTV21 [306]	HoYCLLCLC18 [307]
HoeveGSL07 [619]	Hooker00 [308]	Hooker04 [309]	Hooker05 [310]	Hooker05a [311]	Hooker06 [312]
Hooker07 [313]	Hooker10 [314]	Hooker17 [315]	Hooker19 [316]	HookerH17 [318]	HookerO03 [317]
HookerY02 [319]	HoundjiSW19 [320]	HoundjiSWD14 [321]	HubnerGSV21 [322]	HurleyOS16 [323]	IfrimOS12 [324]
IsikYA23 [325]	JainG01 [327]	JainM99 [326]	Jans09 [328]	JelinekB16 [329]	JourdanFRD94 [330]
JungblutK22 [331]	JuvinHHL23 [332]	JuvinHL22 [333]	JuvinHL23 [334]	JuvinHL23a [335]	KamarainenS02 [336]
Kameugne14 [337]	Kameugne15 [338]	KameugneFGOQ18 [339]	KameugneFND23 [340]	KameugneFSN11 [341]	KameugneFSN14 [34
KanetAG04 [343]	KelarevaTK13 [344]	KelbelH11 [345]	KeriK07 [346]	KhayatLR06 [347]	KhemmoudjPB06 [34
KimCMLLP23 [349]	KlankeBYE21 [350]	KletzanderM17 [351]	KoehlerBFFHPSSS21 [352]	KorbaaYG00 [356]	KorbaaYG99 [355]
KoschB14 [357]	KovacsB07 [358]	KovacsB08 [359]	KovacsB11 [360]	KovacsEKV05 [361]	KovacsK11 [362]
KovacsTKSG21 [365]	KovacsV04 [363]	KovacsV06 [364]	KreterSS15 [366]	KreterSS17 [367]	KreterSSZ18 [368]
KrogtLPHJ07 [618]	KuB16 [369]	KuchcinskiW03 [370]	KucukY19 [372]	Kumar03 [371]	Laborie03 [373]
Laborie09 [374]	Laborie18a [375]	LaborieRSV18 [376]	LacknerMMWW21 [377]	LacknerMMWW23 [378]	LahimerLH11 [379]
LammaMM97 [381]	LauLN08 [382]	Layfield02 [384]	Lemos21 [385]	Letort13 [386]	LetortBC12 [387]
LetortCB13 [388]	LetortCB15 [389]	LiFJZLL22 [391]	LiW08 [390]	LiessM08 [392]	LimBTBB15 [395]
LimHTB16 [394]	LimRX04 [393]	Limtanyakul07 [396]	LimtanyakulS12 [397]	LipovetzkyBPS14 [398]	LiuCGM17 [400]
LiuJ06 [401]	LiuLH19 [399]	Lombardi10 [402]	LombardiBM15 [403]	LombardiBMB11 [404]	LombardiM09 [405]
LombardiM10 [407]	LombardiM10a [406]	LombardiM12 [409]	LombardiM12a [408]	LombardiM13 [410]	LombardiMB13 [411]
LombardiMRB10 [412]	LopesCSM10 [413]	LopezAKYG00 [414]	LorigeonBB02 [415]	LouieVNB14 [416]	Lunardi20 [418]
LunardiBLRV20 [417]	LuoB22 [420]	LuoVLBM16 [419]	Madi-WambaB16 [421]	Madi-WambaLOBM17 [422]	MakMS10 [423]
Malapert11 [424]	MalapertCGJLR12 [425]	MalapertCGJLR13 [426]	MalapertN19 [427]	Malik08 [428]	MalikMB08 [429]
MaraveliasG04 [430]	MarliereSPR23 [431]	MartinPY01 [432]	MartnezAJ22 [433]	Mason01 [434]	Mehdizadeh-Somarin
MejiaY20 [436]	MelgarejoLS15 [11]	Menana11 [437]	MenciaSV12 [438]	MenciaSV13 [439]	MengZRZL20 [440]
Mercier-AubinGQ20 [442]	MercierH08 [441]	Milano11 [443]	MilanoORT02 [444]	MilanoW06 [445]	MilanoW09 [446]
MoffittPP05 [447]	MokhtarzadehTNF20 [448]	MonetteDD07 [449]	MonetteDH09 [450]	MontemanniD23 [452]	MontemanniD23a [45

Table 1: Key Overview (Total: 659)

1	2	3	4	5	6
MossigeGSMC17 [453]	MouraSCL08 [455]	MouraSCL08a [454]	MullerMKP22 [456]	MurinR19 [457]	MurphyMB15 [458]
Muscettola02 [459]	MusliuSS18 [460]	NaderiBZ22 [462]	NaderiBZ22a [461]	NaderiR22 [463]	NaderiRBAU21 [464]
NaderiRR23 [465]	Nattaf16 [466]	NattafAL15 [467]	NattafAL17 [468]	NattafALR16 [469]	NattafDYW19 [470]
NattafHKAL19 [471]	NattafM20 [472]	NeronABCDD06 [486]	NishikawaSTT18 [475]	NishikawaSTT18a [476]	NishikawaSTT19 [477]
NouriMHD23 [614]	NovaraNH16 [478]	Novas19 [479]	NovasH10 [480]	NovasH12 [481]	NovasH14 [482]
NuijtenA94 [483]	NuijtenA96 [485]	NuijtenP98 [484]	OddiPCC03 [487]	OhrimenkoSC09 [488]	OrnekO16 [489]
OrnekOS20 [490]	OuelletQ13 [491]	OuelletQ18 [492]	OuelletQ22 [493]	OujanaAYB22 [494]	OzturkTHO10 [495]
OzturkTHO12 [680]	OzturkTHO13 [496]	OzturkTHO15 [681]	PandeyS21a [497]	PapaB98 [500]	Pape94 [498]
PapeB97 [499]	ParkUJR19 [501]	PembertonG98 [502]	PenzDN23 [503]	PerezGSL23 [504]	PesantRR15 [506]
PoderB08 [508]	PoderBS04 [509]	PohlAK22 [510]	Polo-MejiaALB20 [511]	PopovicCGNC22 [512]	PourDERB18 [513]
PovedaAA23 [514]	Pralet17 [515]	PraletLJ15 [516]	PrataAN23 [517]	Puget95 [518]	QinDCS20 [520]
QinWSLS21 [519]	QuSN06 [521]	QuirogaZH05 [522]	RendlPHPR12 [524]	RiahiNS018 [525]	RodosekW98 [526]
Rodriguez07 [527]	Rodriguez07b [528]	RodriguezDG02 [529]	RodriguezS09 [530]	RoshanaeiBAUB20 [531]	RoshanaeiLAU17 [53
RoshanaeiLAU17a [533]	RossiTHP07 [534]	RuggieroBBMA09 [535]	SacramentoSP20 [536]	Sadykov04 [537]	SadykovW06 [538]
SakkoutW00 [539]	SchausD08 [540]	SchausHMCMD11 [541]	SchildW00 [542]	SchnellH15 [543]	Schutt11 [544]
SchuttCSW12 [545]	SchuttFS13 [547]	SchuttFS13a [546]	SchuttFSW09 [548]	SchuttFSW11 [550]	SchuttFSW13 [551]
SchuttFSW15 [552]	SchuttS16 [553]	SchuttW10 [554]	SchuttWS05 [555]	SerraNM12 [556]	ShaikhK23 [557]
ShiYXQ22 [559]	ShinBBHO18 [560]	Siala15 [561]	Siala15a [562]	SialaAH15 [563]	SimoninAHL12 [564]
SimoninAHL15 [565]	Simonis07 [569]	Simonis95 [567]	Simonis95a [566]	Simonis99 [568]	SimonisC95 [571]
SimonisCK00 [570]	SimonisH11 [572]	SourdN00 [573]	SquillaciPR23 [574]	SubulanC22 [575]	SunLYL10 [577]
SureshMOK06 [578]	SvancaraB22 [579]	SzerediS16 [580]	TanT18 [582]	TangB20 [583]	TangLWSK18 [584]
TardivoDFMP23 [585]	TasselGS23 [586]	Tay92 [588]	Teppan22 [589]	TerekhovDOB12 [590]	TerekhovTDB14 [591
Tesch16 [592]	Tesch18 [593]	ThiruvadyBME09 [594]	ThiruvadyWGS14 [595]	ThomasKS20 [596]	Thorsteinsson01 [597
Timpe02 [598]	Tom19 [599]	TopalogluO11 [600]	TorresL00 [601]	TouatBT22 [602]	Touraivane95 [603]
TranAB16 [604]	TranB12 [605]	TranDRFWOVB16 [606]	TranPZLDB18 [607]	TranTDB13 [608]	TranVNB17 [609]
TranVNB17a [610]	TranWDRFOVB16 [611]	TrojetHL11 [612]	Tsang03 [613]	ValleMGT03 [615]	VanczaM01 [620]
VerfaillieL01 [621]	Vilim02 [622]	Vilim03 [623]	Vilim04 [624]	Vilim05 [625]	Vilim09 [626]
Vilim09a [627]	Vilim11 [628]	VilimBC04 [629]	VilimBC05 [630]	VilimLS15 [631]	VillaverdeP04 [632]
VlkHT21 [633]	Wallace06 [636]	Wallace94 [634]	Wallace96 [635]	WallaceY20 [637]	WangB20 [638]
WangB23 [639]	WangMD15 [640]	WariZ19 [641]	WatsonB08 [642]	WessenCS20 [643]	WikarekS19 [644]
WinterMMW22 [645]	Wolf03 [646]	Wolf05 [647]	Wolf09 [650]	Wolf11 [648]	WolfS05 [649]
WolinskiKG04 [651]	WuBB05 [652]	WuBB09 [653]	YangSS19 [654]	YounespourAKE19 [655]	YoungFS17 [656]
YunusogluY22 [658]	YuraszeckMC23 [659]	YuraszeckMCCR23 [661]	YuraszeckMPV22 [660]	Zahout21 [662]	ZarandiASC20 [664]
ZarandiB12 [214]	ZarandiKS16 [663]	ZeballosH05 [665]	ZeballosQH10 [666]	ZhangBB22 [668]	ZhangJZL22 [667]
ZhangLS12 [671]	ZhangW18 [670]	ZhangYW21 [669]	Zhou96 [672]	Zhou97 [673]	ZhouGL15 [674]
ZhuS02 [675]	ZhuSZW23 [676]	ZibranR11 [677]	ZibranR11a [678]	ZouZ20 [679]	abs-0907-0939 [507]

Table 1: Key Overview (Total: 659)

1	2	3	4	5	6
abs-1009-0347 [549]	abs-1901-07914 [77]	abs-1902-01193 [14]	abs-1902-09244 [286]	abs-1911-04766 [237]	abs-2102-08778 [156]
abs-2211-14492 [576]	abs-2305-19888 [300]	abs-2306-05747 [587]	abs-2312-13682 [505]	abs-2402-00459 [474]	

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 329)

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	387	651
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	330	652
Bit-Monnot23 Bit-Monnot23	A. Bit-Monnot	Enhancing Hybrid CP-SAT Search for Disjunctive Scheduling	Yes	[96]	2023	ECAI 2023	8	0	0	376	653
EfthymiouY23 EfthymiouY23	N. Efthymiou, N. Yorke-Smith	Predicting the Optimal Period for Cyclic Hoist Scheduling Problems	Yes	[195]	2023	CPAIOR 2023	16	0	23	421	654
JuvinHHL23 JuvinHHL23	C. Juvin, E. Hebrard, L. Houssin, P. Lopez	An Efficient Constraint Programming Approach to Preemptive Job Shop Scheduling	Yes	[332]	2023	CP 2023	16	0	0	483	655
JuvinHL23 JuvinHL23	C. Juvin, L. Houssin, P. Lopez	Constraint Programming for the Robust Two-Machine Flow-Shop Scheduling Problem with Budgeted Uncertainty	Yes	[334]	2023	CPAIOR 2023	16	0	11	484	656
KameugneFND23 KameugneFND23	R. Kameugne, Sévérine Betmbe Fetgo, T. Noulamo, Clémentin Tayou Djamégni	Horizontally Elastic Edge Finder Rule for Cumulative Constraint Based on Slack and Density	Yes	[340]	2023	CP 2023	17	0	0	487	657
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	[349]	2023	CPAIOR 2023	16	0	13	492	658
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	[435]	2023	APMS 2023	14	0	0	536	659
PerezGSL23 PerezGSL23	G. Perez, G. Glorian, W. Suijlen, A. Lallouet	A Constraint Programming Model for Scheduling the Unloading of Trains in Ports	Yes	[504]	2023	ICTAI 2023	7	0	0	560	660
PovedaAA23 PovedaAA23	G. Povéda, N. Álvarez, C. Artigues	Partially Preemptive Multi Skill/Mode Resource-Constrained Project Scheduling with Generalized Precedence Relations and Calendars	Yes	[514]	2023	CP 2023	21	0	0	564	661
SquillaciPR23 SquillaciPR23	S. Squillaci, C. Pralet, S. Roussel	Scheduling Complex Observation Requests for a Constellation of Satellites: Large Neighborhood Search Approaches	Yes	[574]	2023	CPAIOR 2023	17	0	19	593	662
TardivoDFMP23 TardivoDFMP23	F. Tardivo, A. Dovier, A. Formisano, L. Michel, E. Pontelli	Constraint Propagation on GPU: A Case Study for the Cumulative Constraint	Yes	[585]	2023	CPAIOR 2023	18	0	30	599	663
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	[586]	2023	ICAPS 2023	9	0	0	600	664
WangB23 WangB23	R. Wang, N. Barnier	Dynamic All-Different and Maximal Cliques Constraints for Fixed Job Scheduling	Yes	[639]	2023	ICTAI 2023	8	0	0	629	665
YuraszeckMC23 YuraszeckMC23	F. Yuraszeck, G. Mejía, D. Canut-de-Bon	A competitive constraint programming approach for the group shop scheduling problem	Yes	[659]	2023	ANT 2023	6	1	15	642	666
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	342	667
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	389	668
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	442	669
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	[289]	2022	IJCAI 2022	7	0	0	463	670
JungblutK22 JungblutK22	P. Jungblut, D. Kranzlmüller	Optimal Schedules for High-Level Programming Environments on FPGAs with Constraint Programming	Yes	[331]	2022	IPDPS 2022	4	0	0	482	671

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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	[391]	2022	ICNSC 2022	6	0	31	513	672
LuoB22 LuoB22	Yiqing L. Luo, J. Christopher Beck	Packing by Scheduling: Using Constraint Programming to Solve a Complex 2D Cutting Stock Problem	Yes	[420]	2022	CPAIOR 2022	17	0	28	528	673
OuelletQ22 OuelletQ22	Y. Ouellet, C. Quimper	A MinCumulative Resource Constraint	Yes	[493]	2022	CPAIOR 2022	17	1	22	556	674
OujanaAYB22 OujanaAYB22	S. Oujana, L. Amodeo, F. Yalaoui, D. Brodart	Solving a realistic hybrid and flexible flow shop scheduling problem through constraint programming: industrial case in a packaging company	Yes	[494]	2022	CoDIT 2022	6	1	21	557	675
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	[512]	2022	CP 2022	15	0	0	563	676
SvancaraB22 SvancaraB22	J. Svancara, R. Barták	Tackling Train Routing via Multi-agent Pathfinding and Constraint-based Scheduling	Yes	[579]	2022	ICAART 2022	8	0	0	595	677
Teppan22 Teppan22	Erich Christian Teppan	Types of Flexible Job Shop Scheduling: A Constraint Programming Experiment	Yes	[589]	2022	ICAART 2022	8	0	0	601	678
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	[602]	2022	ICAART 2022	8	0	0	608	679
WinterMMW22 WinterMMW22	F. Winter, S. Meiswinkel, N. Musliu, D. Walkiewicz	Modeling and Solving Parallel Machine Scheduling with Contamination Constraints in the Agricultural Industry	Yes	[645]	2022	CP 2022	18	0	0	632	680
ZhangBB22 ZhangBB22	J. Zhang, Giovanni Lo Bianco, J. Christopher Beck	Solving Job-Shop Scheduling Problems with QUBO-Based Specialized Hardware	Yes	[668]	2022	ICAPS 2022	9	0	0	643	681
ZhangJZL22 ZhangJZL22	H. Zhang, Y. Ji, Z. Zhao, S. Liu	Constraint Programming for Modeling and Solving a Hybrid Flow Shop Scheduling Problem	Yes	[667]	2022	ICNSC 2022	6	0	21	644	682
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	339	683
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	341	684
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	345	685
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	347	686
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	369	687
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	439	688
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	441	689
HanenKP21 HanenKP21	C. Hanen, Alix Munier Kordon, T. Pedersen	Two Deadline Reduction Algorithms for Scheduling Dependent Tasks on Parallel Processors	Yes	[281]	2021	CPAIOR 2021	17	1	24	461	690
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	[306]	2021	CPAIOR 2021	19	0	38	472	691
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	[350]	2021	CPAIOR 2021	16	3	13	493	692
KovacsTKSG21 KovacsTKSG21	B. Kovács, P. Tassel, W. Kohlenbrein, P. Schrott-Kostwein, M. Gebser	Utilizing Constraint Optimization for Industrial Machine Workload Balancing	Yes	[365]	2021	CP 2021	17	0	0	499	693

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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	[377]	2021	CP 2021	18	0	0	508	694
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	338	695
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	359	696
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	448	697
GokGSTO20 GokGSTO20	Yagmur S. Gök, D. Guimarans, Peter J. Stuckey, M. Tomasella, C. Ozturk	Robust Resource Planning for Aircraft Ground Operations	Yes	[251]	2020	CPAIOR 2020	17	2	14	449	698
GroleazNS20 GroleazNS20	L. Groleaz, Samba Ndojh Ndiaye, C. Solnon	Solving the Group Cumulative Scheduling Problem with CPO and ACO	Yes	[266]	2020	CP 2020	17	1	25	456	699
GroleazNS20a GroleazNS20a	L. Groleaz, Samba Ndojh Ndiaye, C. Solnon	ACO with automatic parameter selection for a scheduling problem with a group cumulative constraint	Yes	[265]	2020	GECCO 2020	9	3	28	457	700
Mercier-AubinGQ20 Mercier-AubinGQ20	A. Mercier-Aubin, J. Gaudreault, C. Quimper	Leveraging Constraint Scheduling: A Case Study to the Textile Industry	Yes	[442]	2020	CPAIOR 2020	13	2	13	538	701
NattafM20 NattafM20	M. Nattaf, A. Malapert	Filtering Rules for Flow Time Minimization in a Parallel Machine Scheduling Problem	Yes	[472]	2020	CP 2020	16	0	6	549	702
TangB20 TangB20	Tanya Y. Tang, J. Christopher Beck	CP and Hybrid Models for Two-Stage Batching and Scheduling	Yes	[583]	2020	CPAIOR 2020	16	6	12	598	703
ThomasKS20 ThomasKS20	C. Thomas, R. Kameugne, P. Schaus	Insertion Sequence Variables for Hybrid Routing and Scheduling Problems	Yes	[596]	2020	CPAIOR 2020	18	0	16	605	704
WangB20 WangB20	R. Wang, N. Barnier	Global Propagation of Transition Cost for Fixed Job Scheduling	Yes	[638]	2020	ECAI 2020	8	0	0	628	705
WessenCS20 WessenCS20	J. Wessén, M. Carlsson, C. Schulte	Scheduling of Dual-Arm Multi-tool Assembly Robots and Workspace Layout Optimization	Yes	[643]	2020	CPAIOR 2020	10	2	11	631	706
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	349	707
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	365	708
BogaerdtW19 BogaerdtW19	Pim van den Bogaerdt, Mathijs de Weerdt	Lower Bounds for Uniform Machine Scheduling Using Decision Diagrams	Yes	[617]	2019	CPAIOR 2019	16	1	16	380	709
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	407	710
FrimodigS19 FrimodigS19	S. Frimodig, C. Schulte	Models for Radiation Therapy Patient Scheduling	Yes	[223]	2019	CP 2019	17	3	26	430	711
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	431	712
GalleguillosKSB19 GalleguillosKSB19	C. Galleguillos, Z. Kiziltan, A. Sîrbu, Özalp Babaoglu	Constraint Programming-Based Job Dispatching for Modern HPC Applications	Yes	[227]	2019	CP 2019	18	1	27	433	713
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	440	714
KucukY19 KucukY19	M. Küçük, Seyda Topaloglu Yildiz	A Constraint Programming Approach for Agile Earth Observation Satellite Scheduling Problem	Yes	[372]	2019	RAST 2019	5	0	0	504	715
LiuLH19 LiuLH19	K. Liu, S. Löffler, P. Hofstedt	Solving the Talent Scheduling Problem by Parallel Constraint Programming	Yes	[399]	2019	AIAI 2019	9	1	5	521	716

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MalapertN19 MalapertN19	A. Malapert, M. Nattaf	A New CP-Approach for a Parallel Machine Scheduling Problem with Time Constraints on Machine Qualifications	Yes	[427]	2019	CPAIOR 2019	17	1	7	534	717
MurinR19 MurinR19	S. Murín, H. Rudová	Scheduling of Mobile Robots Using Constraint Programming	Yes	[457]	2019	CP 2019	16	2	22	545	718
ParkUJR19 ParkUJR19	H. Park, J. Um, J. Jung, M. Ruskowski	Developing a Production Scheduling System for Modular Factory Using Constraint Programming	Yes	[501]	2019	RAAD 2019	8	1	3	558	719
Tom19 Tom19	M. Tom	Fuzzy Multi-Constraint Programming Model for Weekly Meals Scheduling	Yes	[599]	2019	FUZZ-IEEE 2019	6	0	21	607	720
YangSS19 YangSS19	M. Yang, A. Schutt, Peter J. Stuckey	Time Table Edge Finding with Energy Variables	Yes	[654]	2019	CPAIOR 2019	10	1	14	640	721
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	337	722
ArbaouiY18 ArbaouiY18	T. Arbaoui, F. Yalaoui	Solving the Unrelated Parallel Machine Scheduling Problem with Additional Resources Using Constraint Programming	Yes	[24]	2018	ACIIDS 2018	10	2	14	340	723
AstrandJZ18 AstrandJZ18	M. Åstrand, M. Johansson, A. Zanarini	Fleet Scheduling in Underground Mines Using Constraint Programming	Yes	[37]	2018	CPAIOR 2018	9	9	10	348	724
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	370	725
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	394	726
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	414	727
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	[288]	2018	CP 2018	18	6	26	462	728
HoYCLLCLC18 HoYCLLCLC18	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	[307]	2018	AICCC 2018	6	2	14	473	729
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	[339]	2018	CPAIOR 2018	17	1	12	486	730
Laborie18a Laborie18a	P. Laborie	An Update on the Comparison of MIP, CP and Hybrid Approaches for Mixed Resource Allocation and Scheduling	Yes	[375]	2018	CPAIOR 2018	9	18	10	507	731
MusliuSS18 MusliuSS18	N. Musliu, A. Schutt, Peter J. Stuckey	Solver Independent Rotating Workforce Scheduling	Yes	[460]	2018	CPAIOR 2018	17	7	23	548	732
NishikawaSTT18 NishikawaSTT18	H. Nishikawa, K. Shimada, I. Taniguchi, H. Tomiyama	Scheduling of Malleable Fork-Join Tasks with Constraint Programming	Yes	[475]	2018	CANDAR 2018	6	2	14	550	733
NishikawaSTT18a NishikawaSTT18a	H. Nishikawa, K. Shimada, I. Taniguchi, H. Tomiyama	Scheduling of Malleable Tasks Based on Constraint Programming	Yes	[476]	2018	TENCON 2018	6	1	9	551	734
OuelletQ18 OuelletQ18	Y. Ouellet, C. Quimper	A O(n \log ^2 n) Checker and O(n^2 \log n) Filtering Algorithm for the Energetic Reasoning	Yes	[492]	2018	CPAIOR 2018	18	6	16	555	735
RiahiNS018 RiahiNS018	V. Riahi, M. A. Hakim Newton, K. Su, A. Sattar	Local Search for Flowshops with Setup Times and Blocking Constraints	Yes	[525]	2018	ICAPS 2018	9	0	0	571	736
TanT18 TanT18	Y. Tan, D. Terekhov	Logic-Based Benders Decomposition for Two-Stage Flexible Flow Shop Scheduling with Unrelated Parallel Machines	Yes	[582]	2018	Canadian AI 2018	12	1	23	597	737
Tesch18 Tesch18	A. Tesch	Improving Energetic Propagations for Cumulative Scheduling	Yes	[593]	2018	CP 2018	17	5	21	603	738
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	377	739

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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	393	740
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	406	741
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	443	742
GoldwaserS17 GoldwaserS17	A. Goldwaser, A. Schutt	Optimal Torpedo Scheduling	Yes	[253]	2017	CP 2017	16	0	10	450	743
Hooker17 Hooker17	John N. Hooker	Job Sequencing Bounds from Decision Diagrams	Yes	[315]	2017	CP 2017	14	6	24	477	744
KletzanderM17 KletzanderM17	L. Kletzander, N. Musliu	A Multi-stage Simulated Annealing Algorithm for the Torpedo Scheduling Problem	Yes	[351]	2017	CPAIOR 2017	15	1	9	494	745
LiuCGM17 LiuCGM17	T. Liu, Roberto Di Cosmo, M. Gabbrielli, J. Mauro	NightSplitter: A Scheduling Tool to Optimize (Sub)group Activities	Yes	[400]	2017	CP 2017	17	0	15	519	746
Madi-WambaLOBM17 Madi-WambaLOBM17	G. Madi-Wamba, Y. Li, A. Orgerie, N. Beldiceanu, J. Menaud	Green Energy Aware Scheduling Problem in Virtualized Datacenters	Yes	[422]	2017	ICPADS 2017	8	1	8	531	747
MossigeGSMC17 MossigeGSMC17	M. Mossige, A. Gotlieb, H. Spieker, H. Meling, M. Carlsson	Time-Aware Test Case Execution Scheduling for Cyber-Physical Systems	Yes	[453]	2017	CP 2017	18	6	33	542	748
Pralet17 Pralet17	C. Pralet	An Incomplete Constraint-Based System for Scheduling with Renewable Resources	Yes	[515]	2017	CP 2017	19	1	30	565	749
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	[610]	2017	IJCAI 2017	5	1	0	613	750
YoungFS17 YoungFS17	Kenneth D. Young, T. Feydy, A. Schutt	Constraint Programming Applied to the Multi-Skill Project Scheduling Problem	Yes	[656]	2017	CP 2017	10	6	21	641	751
AmadiniGM16 AmadiniGM16	R. Amadini, M. Gabbrielli, J. Mauro	Parallelizing Constraint Solvers for Hard RCPSP Instances	Yes	[17]	2016	LION 2016	7	2	16	335	752
BonfiettiZLM16 BonfiettiZLM16	A. Bonfietti, A. Zanarini, M. Lombardi, M. Milano	The Multirate Resource Constraint	Yes	[113]	2016	CP 2016	17	0	11	386	753
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	388	754
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	390	755
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	397	756
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	398	757
FontaineMH16 FontaineMH16	D. Fontaine, Laurent D. Michel, Pascal Van Hentenryck	Parallel Composition of Scheduling Solvers	Yes	[217]	2016	CPAIOR 2016	11	3	0	427	758
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	445	759
GingrasQ16 GingrasQ16	V. Gingras, C. Quimper	Generalizing the Edge-Finder Rule for the Cumulative Constraint	Yes	[246]	2016	IJCAI 2016	7	0	0	446	760
HechingH16 HechingH16	Aliza R. Heching, John N. Hooker	Scheduling Home Hospice Care with Logic-Based Benders Decomposition	Yes	[292]	2016	CPAIOR 2016	11	10	0	465	761
JelinekB16 JelinekB16	J. Jelínek, R. Barták	Using Constraint Logic Programming to Schedule Solar Array Operations on the International Space Station	Yes	[329]	2016	PADL 2016	10	0	5	481	762
LimHTB16 LimHTB16	B. Lim, Hassan L. Hijazi, S. Thiébaux, Menkes van den Briel	Online HVAC-Aware Occupancy Scheduling with Adaptive Temperature Control	Yes	[394]	2016	CP 2016	18	2	23	515	763
LuoVLBM16 LuoVLBM16	R. Luo, Richard Anthony Valenzano, Y. Li, J. Christopher Beck, Sheila A. McIlraith	Using Metric Temporal Logic to Specify Scheduling Problems	Yes	[419]	2016	KR 2016	4	0	0	529	764

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Madi-WambaB16 Madi-WambaB16	G. Madi-Wamba, N. Beldiceanu	The TaskIntersection Constraint	Yes	[421]	2016	CPAIOR 2016	16	0	0	530	765
SchuttS16 SchuttS16	A. Schutt, Peter J. Stuckey	Explaining Producer/Consumer Constraints	Yes	[553]	2016	CP 2016	17	3	23	582	766
SzerediS16 SzerediS16	R. Szeredi, A. Schutt	Modelling and Solving Multi-mode Resource-Constrained Project Scheduling	Yes	[580]	2016	CP 2016	10	9	14	596	767
Tesch16 Tesch16	A. Tesch	A Nearly Exact Propagation Algorithm for Energetic Reasoning in \mathcal O(n^2 \log n)	Yes	[592]	2016	CP 2016	27	4	14	602	768
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	[606]	2016	SOCS 2016	9	3	0	611	769
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	[611]	2016	AAAI 2016	9	0	0	614	770
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	357	771
BofillGSV15 BofillGSV15	M. Bofill, M. Garcia, J. Suy, M. Villaret	MaxSAT-Based Scheduling of B2B Meetings	Yes	[105]	2015	CPAIOR 2015	9	7	8	379	772
BurtLPS15 BurtLPS15	Christina N. Burt, N. Lipovetzky, Adrian R. Pearce, Peter J. Stuckey	Scheduling with Fixed Maintenance, Shared Resources and Nonlinear Feedrate Constraints: A Mine Planning Case Study	Yes	[125]	2015	CPAIOR 2015	17	0	8	392	773
DejemeppeCS15 DejemeppeCS15	C. Dejemeppe, Sascha Van Cauwelaert, P. Schaus	The Unary Resource with Transition Times	Yes	[174]	2015	CP 2015	16	5	11	412	774
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	425	775
GayHLS15 GayHLS15	S. Gay, R. Hartert, C. Lecoutre, P. Schaus	Conflict Ordering Search for Scheduling Problems	Yes	[231]	2015	CP 2015	9	20	15	435	776
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	436	777
GayHS15a GayHS15a	S. Gay, R. Hartert, P. Schaus	Time-Table Disjunctive Reasoning for the Cumulative Constraint	Yes	[233]	2015	CPAIOR 2015	16	5	12	437	778
KreterSS15 KreterSS15	S. Kreter, A. Schutt, Peter J. Stuckey	Modeling and Solving Project Scheduling with Calendars	Yes	[366]	2015	CP 2015	17	7	16	502	779
LimBTBB15 LimBTBB15	B. Lim, Menkes van den Briel, S. Thiébaux, R. Bent, S. Backhaus	Large Neighborhood Search for Energy Aware Meeting Scheduling in Smart Buildings	Yes	[395]	2015	CPAIOR 2015	15	4	18	514	780
LombardiBM15 LombardiBM15	M. Lombardi, A. Bonfietti, M. Milano	Deterministic Estimation of the Expected Makespan of a POS Under Duration Uncertainty	Yes	[403]	2015	CP 2015	16	0	8	522	781
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	537	782
MurphyMB15 MurphyMB15	Seán Óg Murphy, O. Manzano, Kenneth N. Brown	Design and Evaluation of a Constraint-Based Energy Saving and Scheduling Recommender System	Yes	[458]	2015	CP 2015	17	1	20	546	783
PesantRR15 PesantRR15	G. Pesant, G. Rix, L. Rousseau	A Comparative Study of MIP and CP Formulations for the B2B Scheduling Optimization Problem	Yes	[506]	2015	CPAIOR 2015	16	1	7	561	784
PraletLJ15 PraletLJ15	C. Pralet, S. Lemai-Chenevier, J. Jaubert	Scheduling Running Modes of Satellite Instruments Using Constraint-Based Local Search	Yes	[516]	2015	CP 2015	16	0	8	566	785
SialaAH15 SialaAH15	M. Siala, C. Artigues, E. Hebrard	Two Clause Learning Approaches for Disjunctive Scheduling	Yes	[563]	2015	CP 2015	10	4	17	586	786
VilimLS15 VilimLS15	P. Vilím, P. Laborie, P. Shaw	Failure-Directed Search for Constraint-Based Scheduling	Yes	[631]	2015	CPAIOR 2015	17	31	19	626	787
ZhouGL15 ZhouGL15	J. Zhou, Y. Guo, G. Li	On complex hybrid flexible flowshop scheduling problems based on constraint programming	Yes	[674]	2015	FSKD 2015	5	0	16	647	788
AlesioNBG14 AlesioNBG14	Stefano Di Alesio, S. Nejati, Lionel C. Briand, A. Gotlieb	Worst-Case Scheduling of Software Tasks - A Constraint Optimization Model to Support Performance Testing	Yes	[182]	2014	CP 2014	18	3	19	334	789

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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	358	790
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	374	791
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	378	792
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	384	793
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	413	794
DerrienP14 DerrienP14	A. Derrien, T. Petit	A New Characterization of Relevant Intervals for Energetic Reasoning	Yes	[180]	2014	CP 2014	9	14	0	415	795
DerrienPZ14 DerrienPZ14	A. Derrien, T. Petit, S. Zampelli	A Declarative Paradigm for Robust Cumulative Scheduling	Yes	[181]	2014	CP 2014	9	3	10	416	796
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	419	797
FriedrichFMRSST14 FriedrichFMRSST14	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	798
GaySS14 GaySS14	S. Gay, P. Schaus, Vivian De Smedt	Continuous Casting Scheduling with Constraint Programming	Yes	[234]	2014	CP 2014	15	7	11	438	799
HoundjiSWD14 HoundjiSWD14	Vinasétan Ratheil Houndji, P. Schaus, Laurence A. Wolsey, Y. Deville	The StockingCost Constraint	Yes	[321]	2014	CP 2014	16	5	7	479	800
KoschB14 KoschB14	S. Kosch, J. Christopher Beck	A New MIP Model for Parallel-Batch Scheduling with Non-identical Job Sizes	Yes	[357]	2014	CPAIOR 2014	16	4	18	496	801
LipovetzkyBPS14 LipovetzkyBPS14	N. Lipovetzky, Christina N. Burt, Adrian R. Pearce, Peter J. Stuckey	Planning for Mining Operations with Time and Resource Constraints	Yes	[398]	2014	ICAPS 2014	9	0	0	518	802
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	[416]	2014	ICRA 2014	7	16	9	527	803
BonfiettiLM13 BonfiettiLM13	A. Bonfietti, M. Lombardi, M. Milano	De-Cycling Cyclic Scheduling Problems	Yes	[110]	2013	ICAPS 2013	5	0	0	383	804
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	401	805
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	403	806
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	[268]	2013	CPAIOR 2013	7	10	24	459	807
HeinzKB13 HeinzKB13	S. Heinz, W. Ku, J. Christopher Beck	Recent Improvements Using Constraint Integer Programming for Resource Allocation and Scheduling	Yes	[295]	2013	CPAIOR 2013	16	9	15	467	808
KelarevaTK13 KelarevaTK13	E. Kelareva, K. Tierney, P. Kilby	CP Methods for Scheduling and Routing with Time-Dependent Task Costs	Yes	[344]	2013	CPAIOR 2013	17	16	28	489	809
LetortCB13 LetortCB13	A. Letort, M. Carlsson, N. Beldiceanu	A Synchronized Sweep Algorithm for the k-dimensional cumulative Constraint	Yes	[388]	2013	CPAIOR 2013	16	3	10	512	810
LombardiM13 LombardiM13	M. Lombardi, M. Milano	A Min-Flow Algorithm for Minimal Critical Set Detection in Resource Constrained Project Scheduling	Yes	[410]	2013	ICAPS 2013	2	0	0	526	811
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	[426]	2013	ICAPS 2013	2	0	0	533	812
OuelletQ13 OuelletQ13	P. Ouellet, C. Quimper	Time-Table Extended-Edge-Finding for the Cumulative Constraint	Yes	[491]	2013	CP 2013	16	12	14	554	813
SchuttFS13 SchuttFS13	A. Schutt, T. Feydy, Peter J. Stuckey	Scheduling Optional Tasks with Explanation	Yes	[547]	2013	CP 2013	17	10	20	579	814

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SchuttFS13a SchuttFS13a	A. Schutt, T. Feydy, Peter J. Stuckey	Explaining Time-Table-Edge-Finding Propagation for the Cumulative Resource Constraint	Yes	[546]	2013	CPAIOR 2013	17	20	27	580	815
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	[608]	2013	ICAPS 2013	9	0	0	612	816
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	375	817
BonfiettiLBM12 BonfiettiLBM12	A. Bonfietti, M. Lombardi, L. Benini, M. Milano	Global Cyclic Cumulative Constraint	Yes	[108]	2012	CPAIOR 2012	16	2	11	382	818
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	385	819
GuSW12 GuSW12	H. Gu, Peter J. Stuckey, Mark G. Wallace	Maximising the Net Present Value of Large Resource-Constrained Projects	Yes	[270]	2012	CP 2012	15	5	20	460	820
HeinzB12 HeinzB12	S. Heinz, J. Christopher Beck	Reconsidering Mixed Integer Programming and MIP-Based Hybrids for Scheduling	Yes	[294]	2012	CPAIOR 2012	17	8	21	466	821
IfrimOS12 IfrimOS12	G. Ifrim, B. O'Sullivan, H. Simonis	Properties of Energy-Price Forecasts for Scheduling	Yes	[324]	2012	CP 2012	16	6	20	480	822
LetortBC12 LetortBC12	A. Letort, N. Beldiceanu, M. Carlsson	A Scalable Sweep Algorithm for the cumulative Constraint	Yes	[387]	2012	CP 2012	16	18	12	511	823
RendlPHPR12 RendlPHPR12	A. Rendl, M. Prandtstetter, G. Hiermann, J. Puchinger, Günther R. Raidl	Hybrid Heuristics for Multimodal Homecare Scheduling	Yes	[524]	2012	CPAIOR 2012	17	14	14	570	824
SchuttCSW12 SchuttCSW12	A. Schutt, G. Chu, Peter J. Stuckey, Mark G. Wallace	Maximising the Net Present Value for Resource-Constrained Project Scheduling	Yes	[545]	2012	CPAIOR 2012	17	18	21	578	825
SerraNM12 SerraNM12	T. Serra, G. Nishioka, Fernando J. M. Marcellino	The Offshore Resources Scheduling Problem: Detailing a Constraint Programming Approach	Yes	[556]	2012	CP 2012	17	0	8	585	826
SimoninAHL12 SimoninAHL12	G. Simonin, C. Artigues, E. Hebrard, P. Lopez	Scheduling Scientific Experiments on the Rosetta/Philae Mission	Yes	[564]	2012	CP 2012	15	3	8	587	827
TranB12 TranB12	Tony T. Tran, J. Christopher Beck	Logic-based Benders Decomposition for Alternative Resource Scheduling with Sequence Dependent Setups	Yes	[605]	2012	ECAI 2012	6	0	0	610	828
ZhangLS12 ZhangLS12	X. Zhang, Z. Lv, X. Song	Model and Solution for Hot Strip Rolling Scheduling Problem Based on Constraint Programming Method	Yes	[671]	2012	CIT 2012	4	1	3	645	829
BajestaniB11 BajestaniB11	Maliheh Aramon Bajestani, J. Christopher Beck	Scheduling an Aircraft Repair Shop	Yes	[41]	2011	ICAPS 2011	8	0	0	350	830
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	381	831
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	400	832
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	404	833
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	420	834
GrimesH11 GrimesH11	D. Grimes, E. Hebrard	Models and Strategies for Variants of the Job Shop Scheduling Problem	Yes	[260]	2011	CP 2011	17	5	18	454	835
HeinzS11 HeinzS11	S. Heinz, J. Schulz	Explanations for the Cumulative Constraint: An Experimental Study	Yes	[297]	2011	SEA 2011	10	5	12	468	836
HermenierDL11 HermenierDL11	F. Hermenier, S. Demassey, X. Lorca	Bin Repacking Scheduling in Virtualized Datacenters	Yes	[304]	2011	CP 2011	15	28	5	471	837
KameugneFSN11 KameugneFSN11	R. Kameugne, Laure Pauline Fotso, Joseph D. Scott, Y. Ngo-Kateu	A Quadratic Edge-Finding Filtering Algorithm for Cumulative Resource Constraints	Yes	[341]	2011	CP 2011	15	7	9	488	838
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	[379]	2011	CPAIOR 2011	14	3	15	509	839

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LombardiBMB11 LombardiBMB11	M. Lombardi, A. Bonfietti, M. Milano, L. Benini	Precedence Constraint Posting for Cyclic Scheduling Problems	Yes	[404]	2011	CPAIOR 2011	17	1	13	523	840
SimonisH11 SimonisH11	H. Simonis, T. Hadzic	A Resource Cost Aware Cumulative	Yes	[572]	2011	CSCLP 2011	14	3	9	592	841
Vilim11 Vilim11	P. Vilím	Timetable Edge Finding Filtering Algorithm for Discrete Cumulative Resources	Yes	[628]	2011	CPAIOR 2011	16	28	6	624	842
Wolf11 Wolf11	A. Wolf	Constraint-Based Modeling and Scheduling of Clinical Pathways	Yes	[648]	2011	CSCLP 2011	17	5	19	636	843
ZibranR11 ZibranR11	Minhaz F. Zibran, Chanchal K. Roy	Conflict-Aware Optimal Scheduling of Code Clone Refactoring: A Constraint Programming Approach	Yes	[677]	2011	ICPC 2011	4	17	18	649	844
ZibranR11a ZibranR11a	Minhaz F. Zibran, Chanchal K. Roy	A Constraint Programming Approach to Conflict-Aware Optimal Scheduling of Prioritized Code Clone Refactoring	Yes	[678]	2011	SCAM 2011	10	26	27	650	845
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	373	846
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	405	847
Davenport10 Davenport10	Andrew J. Davenport	Integrated Maintenance Scheduling for Semiconductor Manufacturing	Yes	[165]	2010	CPAIOR 2010	5	9	2	410	848
GrimesH10 GrimesH10	D. Grimes, E. Hebrard	Job Shop Scheduling with Setup Times and Maximal Time-Lags: A Simple Constraint Programming Approach	Yes	[259]	2010	CPAIOR 2010	15	13	20	453	849
LombardiM10 LombardiM10	M. Lombardi, M. Milano	Constraint Based Scheduling to Deal with Uncertain Durations and Self-Timed Execution	Yes	[407]	2010	CP 2010	15	1	11	525	850
MakMS10 MakMS10	K. Mak, J. Ma, W. Su	A constraint programming approach for production scheduling of multi-period virtual cellular manufacturing systems	Yes	[423]	2010	ICNC 2010	5	1	3	532	851
SchuttW10 SchuttW10	A. Schutt, A. Wolf	A New $O(n^2 \log n)$ Not-First/Not-Last Pruning Algorithm for Cumulative Resource Constraints	Yes	[554]	2010	CP 2010	15	13	14	583	852
SunLYL10 SunLYL10	Z. Sun, H. Li, M. Yao, N. Li	Scheduling Optimization Techniques for FlexRay Using Constraint-Programming	Yes	[577]	2010	GreenCom 2010	6	4	8	594	853
Acuna-AgostMFG09 Acuna-AgostMFG09	R. Acuna-Agost, P. Michelon, D. Feillet, S. Gueye	Constraint Programming and Mixed Integer Linear Programming for Rescheduling Trains under Disrupted Operations	Yes	[5]	2009	CPAIOR 2009	2	3	2	332	854
AronssonBK09 AronssonBK09	M. Aronsson, M. Bohlin, P. Kreuger	MILP formulations of cumulative constraints for railway scheduling - A comparative study	Yes	[29]	2009	ATMOS 2009	13	0	0	343	855
Baptiste09 Baptiste09	P. Baptiste	Constraint-Based Schedulers, Do They Really Work?	Yes	[45]	2009	CP 2009	1	0	0	351	856
GrimesHM09 GrimesHM09	D. Grimes, E. Hebrard, A. Malapert	Closing the Open Shop: Contradicting Conventional Wisdom	Yes	[262]	2009	CP 2009	9	15	12	455	857
Laborie09 Laborie09	P. Laborie	IBM ILOG CP Optimizer for Detailed Scheduling Illustrated on Three Problems	Yes	[374]	2009	CPAIOR 2009	15	53	2	506	858
LombardiM09 LombardiM09	M. Lombardi, M. Milano	A Precedence Constraint Posting Approach for the RCPSP with Time Lags and Variable Durations	Yes	[405]	2009	CP 2009	15	7	12	524	859
MonetteDH09 MonetteDH09	J. Monette, Y. Deville, Pascal Van Hentenryck	Just-In-Time Scheduling with Constraint Programming	Yes	[450]	2009	ICAPS 2009	8	0	0	541	860
RodriguezS09 RodriguezS09	J. Rodriguez, S. Sobieraj	A study of an incremental texture-based heuristic for the train routing and scheduling problem	Yes	[530]	2009	null 2009	14	0	0	574	861
SchuttFSW09 SchuttFSW09	A. Schutt, T. Feydy, Peter J. Stuckey, M. Wallace	Why Cumulative Decomposition Is Not as Bad as It Sounds	Yes	[548]	2009	CP 2009	16	34	11	581	862
ThiruvadyBME09 ThiruvadyBME09	Dhananjay R. Thiruvady, C. Blum, B. Meyer, Andreas T. Ernst	Hybridizing Beam-ACO with Constraint Programming for Single Machine Job Scheduling	Yes	[594]	2009	HM 2009	15	13	12	604	863
Vilim09 Vilim09	P. Vilím	Edge Finding Filtering Algorithm for Discrete Cumulative Resources in $O(kn \log n)$	Yes	[626]	2009	CP 2009	15	25	4	622	864

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Vilim09a Vilim09a	P. Vilím	Max Energy Filtering Algorithm for Discrete Cumulative Resources	Yes	[627]	2009	CPAIOR 2009	15	13	4	623	865
Wolf09 Wolf09	A. Wolf, G. Schrader	Linear Weighted-Task-Sum – Scheduling Prioritized Tasks on a Single Resource	Yes	[650]	2009	INAP 2009	17	1	12	635	866
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	354	867
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	367	868
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	372	869
DoomsH08 DoomsH08	G. Dooms, Pascal Van Hentenryck	Gap Reduction Techniques for Online Stochastic Project Scheduling	Yes	[187]	2008	CPAIOR 2008	16	1	2	418	870
HentenryckM08 HentenryckM08	Pascal Van Hentenryck, L. Michel	The Steel Mill Slab Design Problem Revisited	Yes	[303]	2008	CPAIOR 2008	5	13	3	470	871
LauLN08 LauLN08	Hoong Chuin Lau, Kong Wei Lye, Viet Bang Nguyen	A Combinatorial Auction Framework for Solving Decentralized Scheduling Problems (Extended Abstract)	Yes	[382]	2008	CPAIOR 2008	5	0	4	510	872
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	[455]	2008	CP 2008	16	11	10	543	873
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	[454]	2008	CSE 2008	8	5	14	544	874
PoderB08 PoderB08	E. Poder, N. Beldiceanu	Filtering for a Continuous Multi-Resources cumulative Constraint with Resource Consumption and Production	Yes	[508]	2008	ICAPS 2008	8	0	0	562	875
SchausD08 SchausD08	P. Schaus, Y. Deville	A Global Constraint for Bin-Packing with Precedences: Application to the Assembly Line Balancing Problem	Yes	[540]	2008	AAAI 2008	6	0	0	577	876
WatsonB08 WatsonB08	J. Watson, J. Christopher Beck	A Hybrid Constraint Programming / Local Search Approach to the Job-Shop Scheduling Problem	Yes	[642]	2008	CPAIOR 2008	15	14	17	630	877
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	[616]	2007	CPAIOR 2007	15	2	8	333	878
BeldiceanuP07 BeldiceanuP07	N. Beldiceanu, E. Poder	A Continuous Multi-resources cumulative Constraint with Positive-Negative Resource Consumption-Production	Yes	[82]	2007	CPAIOR 2007	15	4	7	368	879
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	411	880
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	434	881
HoeveGSL07 HoeveGSL07	Willem-Jan van Hoeve, Carla P. Gomes, B. Selman, M. Lombardi	Optimal Multi-Agent Scheduling with Constraint Programming	Yes	[619]	2007	AAAI 2007	6	0	0	474	882
KeriK07 KeriK07	A. Kéri, T. Kis	Computing Tight Time Windows for RCPSPWET with the Primal-Dual Method	Yes	[346]	2007	CPAIOR 2007	14	1	13	490	883
KovacsB07 KovacsB07	A. Kovács, J. Christopher Beck	A Global Constraint for Total Weighted Completion Time	Yes	[358]	2007	CPAIOR 2007	15	2	12	497	884
KrogtLPHJ07 KrogtLPHJ07	Roman van der Krogt, J. Little, K. Pulliam, S. Hanhilammi, Y. Jin	Scheduling for Cellular Manufacturing	Yes	[618]	2007	CP 2007	13	2	3	503	885
Limtanyakul07 Limtanyakul07	K. Limtanyakul	Scheduling of Tests on Vehicle Prototypes Using Constraint and Integer Programming	Yes	[396]	2007	GOR 2007	6	2	3	517	886
MonetteDD07 MonetteDD07	J. Monette, Y. Deville, P. Dupont	A Position-Based Propagator for the Open-Shop Problem	Yes	[449]	2007	CPAIOR 2007	14	0	12	540	887

Table 2: Works from bibtex (Total 329)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
Rodriguez07b Rodriguez07b	J. Rodriguez	A study of the use of state resources in a constraint-based model for routing and scheduling trains	Yes	[528]	2007	null 2007	14	0	0	573	888
RossiTHP07 RossiTHP07	R. Rossi, A. Tarim, B. Hnich, Steven D. Prestwich	Replenishment Planning for Stochastic Inventory Systems with Shortage Cost	Yes	[534]	2007	CPAIOR 2007	15	6	10	575	889
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	360	890
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	371	891
GomesHS06 GomesHS06	Carla P. Gomes, Willem-Jan van Hoeve, B. Selman	Constraint Programming for Distributed Planning and Scheduling	Yes	[257]	2006	AAAI 2006	2	0	0	452	892
KhemmoudjPB06 KhemmoudjPB06	Mohand Ou Idir Khemmoudj, M. Porcheron, H. Bennaceur	When Constraint Programming and Local Search Solve the Scheduling Problem of Electricité de France Nuclear Power Plant Outages	Yes	[348]	2006	CP 2006	13	8	8	491	893
KovacsV06 KovacsV06	A. Kovács, J. Váncza	Progressive Solutions: A Simple but Efficient Dominance Rule for Practical RCPSP	Yes	[364]	2006	CPAIOR 2006	13	2	7	501	894
LiuJ06 LiuJ06	Y. Liu, Y. Jiang	LP-TPOP: Integrating Planning and Scheduling Through Constraint Programming	Yes	[401]	2006	PRICAI 2006	5	0	0	520	895
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	[521]	2006	SoC 2006	4	2	5	568	896
Wallace06 Wallace06	M. Wallace	Hybrid Algorithms in Constraint Programming	Yes	[636]	2006	CSCLP 2006	32	1	35	627	897
AbrilSB05 AbrilSB05	M. Abril, Miguel A. Salido, F. Barber	Distributed Constraints for Large-Scale Scheduling Problems	Yes	[4]	2005	CP 2005	1	0	0	331	898
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	346	899
BeckW05 BeckW05	J. Christopher Beck, N. Wilson	Proactive Algorithms for Scheduling with Probabilistic Durations	Yes	[72]	2005	IJCAI 2005	6	0	0	364	900
CarchraeBF05 CarchraeBF05	T. Carchrae, J. Christopher Beck, Eugene C. Freuder	Methods to Learn Abstract Scheduling Models	Yes	[133]	2005	CP 2005	1	0	0	395	901
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	402	902
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	417	903
FortinZDF05 FortinZDF05	J. Fortin, P. Zielinski, D. Dubois, H. Fargier	Interval Analysis in Scheduling	Yes	[219]	2005	CP 2005	15	13	11	428	904
FrankK05 FrankK05	J. Frank, E. Kürklü	Mixed Discrete and Continuous Algorithms for Scheduling Airborne Astronomy Observations	Yes	[221]	2005	CPAIOR 2005	18	4	4	429	905
Geske05 Geske05	U. Geske	Railway Scheduling with Declarative Constraint Programming	Yes	[243]	2005	INAP 2005	18	2	3	444	906
GodardLN05 GodardLN05	D. Godard, P. Laborie, W. Nuijten	Randomized Large Neighborhood Search for Cumulative Scheduling	Yes	[247]	2005	ICAPS 2005	9	0	0	447	907
HebrardTW05 HebrardTW05	E. Hebrard, P. Tyler, T. Walsh	Computing Super-Schedules	Yes	[291]	2005	CP 2005	1	0	3	464	908
Hooker05a Hooker05a	John N. Hooker	Planning and Scheduling to Minimize Tardiness	Yes	[311]	2005	CP 2005	14	30	10	476	909
KovacsEKV05 KovacsEKV05	A. Kovács, P. Egri, T. Kis, J. Váncza	Proterv-II: An Integrated Production Planning and Scheduling System	Yes	[361]	2005	CP 2005	1	2	3	498	910
MoffittPP05 MoffittPP05	Michael D. Moffitt, B. Peintner, Martha E. Pollack	Augmenting Disjunctive Temporal Problems with Finite-Domain Constraints	Yes	[447]	2005	AAAI 2005	6	0	0	539	911
QuirogaZH05 QuirogaZH05	O. Quiroga, L. Zeballos, Gabriela P. Henning	A Constraint Programming Approach to Tool Allocation and Resource Scheduling in FMS	Yes	[522]	2005	ICRA 2005	6	2	7	569	912
SchuttWS05 SchuttWS05	A. Schutt, A. Wolf, G. Schrader	Not-First and Not-Last Detection for Cumulative Scheduling in $O(n^3 \log n)$	Yes	[555]	2005	INAP 2005	15	6	4	584	913

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Vilim05 Vilim05	P. Vilím	Computing Explanations for the Unary Resource Constraint	Yes	[625]	2005	CPAIOR 2005	14	5	8	621	914
Wolf05 Wolf05	A. Wolf	Better Propagation for Non-preemptive Single-Resource Constraint Problems	Yes	[647]	2005	CSCLP 2005	15	4	8	634	915
WolfS05 WolfS05	A. Wolf, G. Schrader	$O(n \log n)$ Overload Checking for the Cumulative Constraint and Its Application	Yes	[649]	2005	INAP 2005	14	6	6	637	916
WuBB05 WuBB05	Christine Wei Wu, Kenneth N. Brown, J. Christopher Beck	Scheduling with Uncertain Start Dates	Yes	[652]	2005	CP 2005	1	0	0	639	917
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	344	918
BeckW04 BeckW04	J. Christopher Beck, N. Wilson	Job Shop Scheduling with Probabilistic Durations	Yes	[71]	2004	ECAI 2004	5	0	0	363	919
HentenryckM04 HentenryckM04	Pascal Van Hentenryck, L. Michel	Scheduling Abstractions for Local Search	Yes	[302]	2004	CPAIOR 2004	16	12	14	469	920
Hooker04 Hooker04	John N. Hooker	A Hybrid Method for Planning and Scheduling	Yes	[309]	2004	CP 2004	12	39	9	475	921
KovacsV04 KovacsV04	A. Kovács, J. Váncza	Completable Partial Solutions in Constraint Programming and Constraint-Based Scheduling	Yes	[363]	2004	CP 2004	15	3	12	500	922
LimRX04 LimRX04	A. Lim, B. Rodrigues, Z. Xu	Solving the Crane Scheduling Problem Using Intelligent Search Schemes	Yes	[393]	2004	CP 2004	5	5	6	516	923
MaraveliasG04 MaraveliasG04	Christos T. Maravelias, Ignacio E. Grossmann	Using MILP and CP for the Scheduling of Batch Chemical Processes	Yes	[430]	2004	CPAIOR 2004	20	15	15	535	924
Sadykov04 Sadykov04	R. Sadykov	A Hybrid Branch-And-Cut Algorithm for the One-Machine Scheduling Problem	Yes	[537]	2004	CPAIOR 2004	7	11	7	576	925
Vilim04 Vilim04	P. Vilím	O(n log n) Filtering Algorithms for Unary Resource Constraint	Yes	[624]	2004	CPAIOR 2004	13	22	5	620	926
VilimBC04 VilimBC04	P. Vilím, R. Barták, O. Cepek	Unary Resource Constraint with Optional Activities	Yes	[629]	2004	CP 2004	15	13	4	625	927
VillaverdeP04 VillaverdeP04	K. Villaverde, E. Pontelli	An Investigation of Scheduling in Distributed Constraint Logic Programming	No	[632]	2004	ISCA 2004	6	0	0	No	928
WolinskiKG04 WolinskiKG04	C. Wolinski, K. Kuchcinski, Maya B. Gokhale	A Constraints Programming Approach to Communication Scheduling on SoPC Architectures	Yes	[651]	2004	DSD 2004	8	0	9	638	929
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	362	930
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	409	931
Kumar03 Kumar03	T. K. Satish Kumar	Incremental Computation of Resource-Envelopes in Producer-Consumer Models	Yes	[371]	2003	CP 2003	15	4	2	505	932
OddiPCC03 OddiPCC03	A. Oddi, N. Policella, A. Cesta, G. Cortellessa	Generating High Quality Schedules for a Spacecraft Memory Downlink Problem	Yes	[487]	2003	CP 2003	15	8	6	553	933
ValleMGT03 ValleMGT03	Carmelo Del Valle, Antonio A. Márquez, Rafael M. Gasca, M. Toro	On Selecting and Scheduling Assembly Plans Using Constraint Programming	Yes	[615]	2003	KES 2003	8	7	7	615	934
Vilim03 Vilim03	P. Vilím	Computing Explanations for Global Scheduling Constraints	Yes	[623]	2003	CP 2003	1	1	1	619	935
Wolf03 Wolf03	A. Wolf	Pruning while Sweeping over Task Intervals	Yes	[646]	2003	CP 2003	15	11	7	633	936
Bartak02 Bartak02	R. Barták	Visopt ShopFloor: On the Edge of Planning and Scheduling	Yes	[54]	2002	CP 2002	16	6	4	355	937
Bartak02a Bartak02a	R. Barták	Visopt ShopFloor: Going Beyond Traditional Scheduling	Yes	[53]	2002	ERCIM/CologNet 2002	15	1	9	356	938
BeldiceanuC02 BeldiceanuC02	N. Beldiceanu, M. Carlsson	A New Multi-resource cumulatives Constraint with Negative Heights	Yes	[79]	2002	CP 2002	17	33	9	366	939
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	422	940
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	423	941

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HookerY02 HookerY02	John N. Hooker, H. Yan	A Relaxation of the Cumulative Constraint	Yes	[319]	2002	CP 2002	5	8	7	478	942
KamarainenS02 KamarainenS02	O. Kamarainen, Hani El Sakkout	Local Probing Applied to Scheduling	Yes	[336]	2002	CP 2002	17	9	13	485	943
Muscettola02 Muscettola02	N. Muscettola	Computing the Envelope for Stepwise-Constant Resource Allocations	Yes	[459]	2002	CP 2002	16	14	4	547	944
Vilim02 Vilim02	P. Vilím	Batch Processing with Sequence Dependent Setup Times	Yes	[622]	2002	CP 2002	1	6	1	618	945
ZhuS02 ZhuS02	Kenny Qili Zhu, Andrew E. Santosa	A Meeting Scheduling System Based on Open Constraint Programming	Yes	[675]	2002	CAiSE 2002	5	0	5	648	946
Thorsteinsson01 Thorsteinsson01	Erlendur S. Thorsteinsson	Branch-and-Check: A Hybrid Framework Integrating Mixed Integer Programming and Constraint Logic Programming	Yes	[597]	2001	CP 2001	15	67	12	606	947
VanczaM01 VanczaM01	J. Váncza, A. Márkus	A Constraint Engine for Manufacturing Process Planning	Yes	[620]	2001	CP 2001	15	2	19	616	948
VerfaillieL01 VerfaillieL01	G. Verfaillie, M. Lemaître	Selecting and Scheduling Observations for Agile Satellites: Some Lessons from the Constraint Reasoning Community Point of View	Yes	[621]	2001	CP 2001	15	11	6	617	949
AngelsmarkJ00 AngelsmarkJ00	O. Angelsmark, P. Jonsson	Some Observations on Durations, Scheduling and Allen's Algebra	Yes	[18]	2000	CP 2000	5	1	9	336	950
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	426	951
DorndorfPH99 DorndorfPH99	U. Dorndorf, E. Pesch, Toàn Phan Huy	Recent Developments in Scheduling	No	[189]	1999	Operations Research Proceedings 1999	null	0	34	No	952
KorbaaYG99 KorbaaYG99	O. Korbaa, P. Yim, J. Gentina	Solving transient scheduling problem for cyclic production using timed Petri nets and constraint programming	Yes	[355]	1999	ECC 1999	8	1	0	495	953
Simonis99 Simonis99	H. Simonis	Building Industrial Applications with Constraint Programming	Yes	[568]	1999	CCL'99 1999	39	5	18	590	954
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	399	955
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	432	956
GruianK98 GruianK98	F. Gruian, K. Kuchcinski	Operation Binding and Scheduling for Low Power Using Constraint Logic Programming	Yes	[267]	1998	EUROMICRO 1998	8	5	10	458	957
PembertonG98 PembertonG98	Joseph C. Pemberton, Flavius Galiber III	A constraint-based approach to satellite scheduling	Yes	[502]	1998	DIMACS 1998	14	26	0	559	958
RodosekW98 RodosekW98	R. Rodosek, M. Wallace	A Generic Model and Hybrid Algorithm for Hoist Scheduling Problems	Yes	[526]	1998	CP 1998	15	19	10	572	959
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	353	960
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	361	961
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 Schedulingt Problem	No	[117]	1997	PACT 1997	18	0	0	No	962
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	396	963
PapeB97 PapeB97	Claude Le Pape, P. Baptiste	A Constraint Programming Library for Preemptive and Non-Preemptive Scheduling	No	[499]	1997	PACT 1997	20	0	0	No	964
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	391	965

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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	408	966
Zhou96 Zhou96	J. Zhou	A Constraint Program for Solving the Job-Shop Problem	Yes	[672]	1996	CP 1996	15	10	7	646	967
Goltz95 Goltz95	H. Goltz	Reducing Domains for Search in CLP(FD) and Its Application to Job-Shop Scheduling	Yes	[255]	1995	CP 1995	14	7	7	451	968
Puget95 Puget95	J. Puget	Applications of Constraint Programming	Yes	[518]	1995	CP 1995	4	6	2	567	969
Simonis95 Simonis95	H. Simonis	The CHIP System and Its Applications	Yes	[567]	1995	CP 1995	4	7	3	588	970
Simonis95a Simonis95a	H. Simonis	Application Development with the CHIP System	Yes	[566]	1995	CONTESSA 1995	21	1	12	589	971
SimonisC95 SimonisC95	H. Simonis, T. Cornelissens	Modelling Producer/Consumer Constraints	Yes	[571]	1995	CP 1995	14	17	8	591	972
Touraivane95 Touraivane95	Touraïvane	Constraint Programming and Industrial Applications	Yes	[603]	1995	CP 1995	3	2	1	609	973
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	[330]	1994	ILPS 1994	1	0	0	No	974
NuijtenA94 NuijtenA94	W. P. M. Nuijten, Emile H. L. Aarts	Constraint Satisfaction for Multiple Capacitated Job Shop Scheduling	Yes	[483]	1994	ECAI 1994	5	0	0	552	975
Wallace94 Wallace94	M. Wallace	Applying Constraints for Scheduling	No	[634]	1994	Constraint Programming 1994	19	0	0	No	976
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	352	977
ErtlK91 ErtlK91	M. Anton Ertl, A. Krall	Optimal Instruction Scheduling using Constraint Logic Programming	Yes	[201]	1991	PLILP 1991	12	14	14	424	978
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	979

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, preemptive, transportation, machine, make-span, activity, flow-shop, order, resource		cycle, noOverlap, endBeforeStart, alwaysIn, cumulative		CPO, Cplex	steel cable	mining industry	real-world	genetic algorithm, large neighborhood search	2	652
AbrilSB05 [4]	1	distributed, multi-agent, scheduling, order					railway				248	898
Acuna-AgostMFG09 [5]	2	re-scheduling, order, scheduling, transportation					railway		Roadef		204	854
AkkerDH07 [616]	15	due-date, cmax, machine, job, lateness, sequence dependent setup, preempt, resource, no-wait, scheduling, precedence, order, make-span, completion-time, release-date, preemptive, planned maintenance, unavailability	parallel machine, RCPSP, single machine, Resource-constrained Project Scheduling Problem	cumulative		Cplex				column generation, simulated annealing	228	878
AlesioNBG14 [182]	18	preempt, preemptive, periodic, scheduling, completion-time, resource, task, job-shop, distributed, make-span, open-shop, order, job, activity		alldifferent		OPL, Cplex	automotive		benchmark	genetic algorithm, meta heuristic	139	789
AmadiniGM16 [17]	7	make-span, scheduling, resource, task, distributed, precedence	RCPSP, Resource-constrained Project Scheduling Problem	cumulative		MiniZinc, Choco Solver, Gurobi, Gecode, OR-Tools			benchmark, real-life, github	lazy clause generation	102	752
AngelsmarkJ00 [18]	5	resource, job, order, scheduling, task, job-shop									300	950
AntunesABD18 [19]	8	earliness, scheduling, machine, periodic, order, lateness, Logic-Based Benders Decomposition, activity, due-date, stochastic, re-scheduling, task, Benders Decomposition		bin-packing, BinPacking constraint		Cplex	maintenance scheduling, workforce scheduling	electricity industry	real-world, industry partner, industrial partner	column generation, genetic algorithm, large neighborhood search, meta heuristic	72	722
AntuoriHHEN20 [21]	16	stochastic, due-date, task, job-shop, precedence, release-date, resource, periodic, job, order, completion-time, tardiness, scheduling, machine, Pareto		alldifferent, circuit, Element constraint, cycle, Channeling constraint		Choco Solver	torpedo		random instance, generated instance, gitlab, benchmark, industrial instance	large neighborhood search, machine learning, neural network, reinforcement learning	45	695

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
AntuoriHHEN21 [22]	16	transportation, stochastic, 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, deep learning, large neighborhood search, machine learning, neural network, reinforcement learning	33	683
ArbaouiY18 [24]	10	order, sequence dependent setup, resource, job, scheduling, setup-time, machine, make-span, no-wait, completion-time, cmax, unavailability	single machine, parallel machine	Pulse constraint, alternative constraint, noOverlap, cumulative	C++	Cplex			benchmark	genetic algorithm, mat heuristic, meta heuristic	73	723
ArmstrongGOS21 [26]	18	machine, flow-shop, job-shop, job, order, sequence dependent setup, preemptive, cmax, transportation, scheduling, make-span, completion-time, preempt, resource, setup-time, precedence, task, multi-objective	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, ant colony, genetic algorithm, memetic algorithm, meta heuristic	34	684
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, mat heuristic, meta heuristic	17	667
AronssonBK09 [29]	13	job-shop, transportation, order, job, task		cumulative	Prolog	CHIP, Cplex	railway		real-world, real-life	sweep	205	855
ArtiguesBF04 [30]	13	batch process, cmax, resource, completion-time, one-machine scheduling, scheduling, machine, job, preemptive, 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, Lagrangian relaxation, meta heuristic	268	918
ArtiguesHQT21 [32]	8	order, preemptive, resource, preempt, scheduling, release-date, machine, job	RCPSP, Resource-constrained Project Scheduling Problem	cumulative		Cplex	evacuation, wildfire				35	685
ArtiouchineB05 [34]	15	release-date, completion-time, job, resource, activity, open-shop, machine, preemptive, 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	249	899

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
Astrand0F21 [36]	18	open-shop, task, precedence, make-span, order, job, activity, scheduling, resource, machine, job-shop	Partial Order Schedule	cycle, disjunctive, Disjunctive constraint		Gecode	farming, forestry, agriculture, drone, robot, satellite	potash industry, mining industry, mineral industry	benchmark, real-life, real-world, generated instance	genetic algorithm, large neighborhood search	36	686
AstrandJZ18 [37]	9	task, make-span, order, activity, scheduling, resource, machine, periodic, multi-objective	single machine	disjunctive, cumulative, cycle		Gecode	hoist, robot	potash industry		time-tabling	74	724
BadicaBIL19 [40]	11	completion-time, resource, distributed, order, activity, machine, multi-agent, make-span, scheduling		cycle, Arithmetic constraint		ECLiPSe, Gecode	business process		github		57	707
BajestaniB11 [41]	8	re-scheduling, Benders Decomposition, scheduling, machine, stochastic, transportation, order, tardiness, make-span, Logic-Based Benders Decomposition, resource, periodic, single-machine scheduling, inventory, due-date, job, breakdown	JSSP, single machine	cycle, Cardinality constraint, cumulative, circuit		Ilog Solver, Cplex	railway, maintenance scheduling, aircraft				180	830
Baptiste09 [45]	1	scheduling									206	856
BaptisteLV92 [51]	6										327	977
BaptisteP97 [48]	15	resource, preempt, preemptive, job-shop, scheduling, re-scheduling, due-date, task, precedence, release-date, flow-shop, make-span, order, job, activity	RCPSP, Resource-constrained Project Scheduling Problem	Disjunctive constraint, disjunctive, cumulative	C++	Claire, CHIP			benchmark	edge-finding, edge-finder	310	960
BarlattCG08 [52]	5	scheduling, resource, setup-time, task, job-shop, transportation, job, machine, flow-shop					automotive, pipeline		real-world		217	867
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	287	937
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	288	938
BartakV15 [59]	12	scheduling, make-span, machine, job, lateness, re-scheduling, job-shop, resource, precedence, order, activity, setup-time, breakdown, reactive scheduling							real-world, real-life	sweep	121	771
BartoliniBBLM14 [60]	16	tardiness, make-span, scheduling, resource, task, job, activity, machine		alternative constraint, cumulative			supercomputer, high performance computing			large neighborhood search	140	790

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

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
BarzegaranZP20 [61]	9	resource, re-scheduling, distributed, machine, scheduling, order, task			Java	OR-Tools	automotive, robot			meta heuristic	46	696
Beck06 [63]	10	due-date, order, scheduling, machine, job-shop, tardiness, flow-shop, make-span, resource, job				Ilog Scheduler			benchmark	machine learning, meta heuristic	240	890
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	311	961
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, stochastic, completion-time, machine, setup-time	RCPSP			Ilog Scheduler	robot		benchmark, real-world	meta heuristic	280	930
BeckW04 [71]	5	job-shop, machine, activity, distributed, one-machine scheduling, flow-shop, resource, job, stochastic, order, make-span, scheduling	single machine			Ilog Scheduler				edge-finding, time-tabling, genetic algorithm	269	919
BeckW05 [72]	6	job-shop, activity, flow-shop, resource, job, stochastic, order, make-span, scheduling		Balance constraint		Ilog Scheduler				edge-finder	250	900
BehrensLM19 [76]	7	order, resource, machine, scheduling, setup-time, task, distributed, multi-agent, make-span			Python	OR-Tools, MiniZinc	robot		github, real-world		58	708
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	289	939
BeldiceanuCP08 [81]	15	scheduling, order, resource, task		disjunctive, geost, cumulative	Prolog	CHIP, SICStus, OPL	rectangle-packing, perfect-square		benchmark	edge-finding, sweep	218	868
BeldiceanuP07 [82]	15	preempt, task, preemptive, resource, order, scheduling, release-date, due-date		disjunctive, cumulative						sweep	229	879
BenderWS21 [84]	16	activity, order, resource, scheduling, preempt, task, machine, make-span, job, distributed, setup-time, preemptive	RCPSP	noOverlap	Python		agriculture			meta heuristic	37	687
BenediktSMVH18 [87]	10	single-machine scheduling, job-shop, scheduling, order, preempt, resource, job, machine, multi-objective	single machine, parallel machine	noOverlap		Gurobi	energy-price		github, random instance, generated instance	column generation, machine learning	75	725

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
BeniniBGM06 [88]	15	Benders Decomposition, Logic-Based Benders Decomposition, task, distributed, precedence, make-span, order, activity, tardiness, scheduling, resource, setup-time		cycle, cumulative		ECLiPSe, Cplex, Ilog Solver	automotive, pipeline		real-life	column generation	241	891
BeniniLMR08 [89]	15	resource, Benders Decomposition, Logic-Based Benders Decomposition, task, distributed, precedence, make-span, order, activity, machine, preempt, release-date, tardiness, preemptive, periodic, scheduling	SCC	circuit		Ilog Scheduler, Cplex	medical, pipeline		benchmark	simulated annealing	219	869
BertholdHLMS10 [92]	5	scheduling, order, preempt, precedence, completion-time, job, resource	psplib, RCPSP	disjunctive, cumulative		Cplex, SCIP, Z3					196	846
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		141	791
BillautHL12 [95]	15	tardiness, job-shop, setup-time, due-date, open-shop, stochastic, precedence, release-date, flow-shop, make-span, order, job, scheduling, completion-time, resource, machine, cmax, multi-objective, reactive scheduling	single machine	cycle		Cplex, Mistral			random instance		167	817
Bit-Monnot23 [96]	8	distributed, job, open-shop, task, precedence, scheduling, machine, order, make-span, job-shop, resource, activity	OSP, Open Shop Scheduling Problem, Partial Order Schedule	Disjunctive constraint, cycle, cumulative, disjunctive		OR-Tools, CPO, MiniZinc, Mistral			benchmark, real-world, github	genetic algorithm, large neighborhood search, lazy clause generation, particle swarm	3	653
BofillCSV17 [103]	9	precedence, make-span, order, activity, machine, preempt, cmax, preemptive, scheduling, resource	RCPSP, psplib, Resource-constrained Project Scheduling Problem	cumulative		Z3, SCIP			benchmark	energetic reasoning, lazy clause generation	89	739
BofillEGPSV14 [104]	16	machine, order, scheduling, task		Channeling constraint		Cplex, Gecode, MiniZinc, SCIP	meeting scheduling		industrial instance	time-tabling, lazy clause generation	142	792
BofillGSV15 [105]	9	machine, scheduling, order		Channeling constraint, Cardinality constraint		Cplex	high school timetabling, meeting scheduling		industrial instance	time-tabling	122	772

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
BogaerdtW19 [617]	16	scheduling, completion-time, setup-time, job-shop, single-machine scheduling, precedence, order, job, machine, tardiness	single machine, parallel machine	noOverlap	C	OPL, Cplex	railway		benchmark		59	709
BonfiettiLBM11 [107]	15	scheduling, order, make-span, precedence, task, job, resource, activity, periodic, machine, job-shop, cyclic scheduling	RCPSP	cumulative, cycle		Ilog Solver	hoist, robot		benchmark, generated instance, industrial instance		181	831
BonfiettiLBM12 [108]	16	scheduling, order, make-span, precedence, job, resource, activity, periodic, distributed, machine, job-shop, cyclic scheduling	RCPSP	cumulative, cycle		Ilog Solver	hoist, robot		benchmark	time-tabling	168	818
BonfiettiLM13 [110]	5	scheduling, make-span, job-shop, precedence, resource, activity, periodic, job, order, cyclic scheduling	RCPSP, Resource-constrained Project Scheduling Problem	cycle, cumulative		Cplex					154	804
BonfiettiLM14 [111]	16	scheduling, machine, open-shop, stochastic, distributed, make-span, task, job-shop, precedence, resource, activity, job, order, reactive scheduling	RCPSP, psplib, Partial Order Schedule	cumulative					benchmark, real-world	large neighborhood search	143	793
BonfiettiM12 [112]	3	job, task, scheduling, machine, precedence, job-shop, resource, activity, periodic, cyclic scheduling	RCPSP	cumulative			hoist		industrial instance		169	819
BonfiettiZLM16 [113]	17	resource, activity, periodic, scheduling, order, make-span, precedence, cyclic scheduling	RCPSP	cumulative, cycle, disjunctive		OR-Tools	automotive	automotive industry, control system industry	generated instance, github, industrial instance, benchmark, real-world	sweep, edge-finder	103	753
BonninMNE24 [114]	12	open-shop, order, job, activity, flow-time, machine, preempt, precedence, release-date, flow-shop, make-span, preemptive, scheduling, completion-time, resource, task, job-shop, single-machine scheduling	single machine	noOverlap, Flowtime constraint, Completion constraint, disjunctive, cumulative, Disjunctive constraint	C++	Cplex	patient, COVID, vaccine		benchmark, real-life	edge-finding, sweep, time-tabling, particle swarm	1	651
BoothNB16 [115]	17	distributed, resource, machine, Benders Decomposition, precedence, order, activity, scheduling, Logic-Based Benders Decomposition, task, re-scheduling		cumulative, noOverlap, disjunctive	C++	Cplex	robot, medical		real-world	large neighborhood search	104	754

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
BoudreaultSLQ22 [118]	16	activity, machine, transportation, distributed, order, make-span, scheduling, cmax, resource, preempt, precedence, task, multi-objective	RCPSP, psplib, Resource-constrained Project Scheduling Problem	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, large neighborhood search, lazy clause generation, meta heuristic	18	668
BridiLBBM16 [122]	2	task, distributed, make-span, order, job, activity, scheduling, resource, machine, periodic									105	755
BrusoniCLMMT96 [124]	10	no-wait, due-date, scheduling, order, resource, activity, precedence, task, distributed, job-shop, job		disjunctive, Disjunctive constraint	Prolog		railway, train schedule				315	965
BurtLPS15 [125]	17	task, job, job-shop, resource, machine, Benders Decomposition, stochastic, precedence, order, tardiness, periodic, single-machine scheduling, scheduling, make-span, completion-time, bi-objective, unavailability	parallel machine, single machine	cumulative, cycle		Gurobi, Gecode, Cplex, MiniZinc			industry partner, real-world, benchmark	MINLP, MIQP, quadratic programming	123	773
CappartS17 [130]	16	re-scheduling, resource, scheduling, task, machine, activity, job, precedence, job-shop, completion-time, order, breakdown, multi-objective	TMS	cumulative, span constraint, noOverlap, alternative constraint		OPL	train schedule, railway		bitbucket, real-life, random instance	large neighborhood search	90	740
CappartTSR18 [131]	17	Logic-Based Benders Decomposition, resource, periodic, setup-time, producer/consumer, activity, Benders Decomposition, scheduling, transportation, order, Pareto, multi-objective	Partial Order Schedule	cumulative, circuit, disjunctive, noOverlap		Cplex, CPO, MiniZinc, OPL	medical, patient		bitbucket, real-life, CSPlib	column generation, large neighborhood search	76	726
CarchraeBF05 [133]	1	scheduling, task, make-span, order	Partial Order Schedule								251	901
Caseau97 [138]	4	preempt, preemptive, order, scheduling, task, make-span, job, resource, job-shop		cumulative			robot		benchmark	edge-finding	313	963
CatusseCBL16 [140]	7	release-date, order, resource, due-date, scheduling, machine, job, stochastic, task	parallel machine, single machine	disjunctive	Julia	OPL	astronomy, telescope			column generation, large neighborhood search, meta heuristic	106	756

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
CauwelaertDMS16 [141]	16	batch process, preemptive, 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	107	757
CestaOS98 [145]	1	job, resource, scheduling				robot					305	955
ChapadosJR11 [146]	6	activity, task, scheduling, order		cycle, cumulative		OPL		retail industry		time-tabling, column generation	182	832
ChuGNSW13 [148]	7	distributed, resource, machine, job, scheduling, precedence, order, task		cumulative, alldifferent, Cardinality constraint, disjunctive		CHIP				not-first, not-last, edge-finding	155	805
ChuX05 [149]	15	scheduling, machine, single-machine scheduling, release-date, order, one-machine scheduling, completion-time, Logic-Based Benders Decomposition, resource, job, due-date, Benders Decomposition	single machine	disjunctive, cumulative, Disjunctive constraint		ECLiPSe				MINLP	252	902
CireCH13 [150]	7	tardiness, scheduling, Benders Decomposition, precedence, task, order, make-span, stochastic, machine, job, resource, Logic-Based Benders Decomposition		circuit, cumulative		SCIP, OPL, Cplex					156	806
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	183	833
CobanH10 [153]	5	job, make-span, distributed, tardiness, Benders Decomposition, Logic-Based Benders Decomposition, preempt, re-scheduling, preemptive, order, scheduling		disjunctive, circuit		OPL, Cplex					197	847
CohenHB17 [155]	17	machine, order, activity, scheduling, task		noOverlap, alternative constraint		Cplex, OPL	music festival			time-tabling, machine learning, simulated annealing, support vector regression	91	741

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
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	genetic algorithm, large neighborhood search, machine learning	60	710
Colombani96 [158]	15	job, scheduling, resource, preempt, due-date, job-shop, task, order, activity, stochastic, machine, precedence, release-date		disjunctive		CHIP				simulated annealing	316	966
DannaP03 [163]	5	job-shop, order, tardiness, scheduling, machine, job, activity, earliness, resource		disjunctive		Cplex, Ilog Solver, Ilog Scheduler			benchmark	genetic algorithm, large neighborhood search	281	931
Davenport10 [165]	5	order, resource, release-date, tardiness, periodic, scheduling, completion-time, earliness, due-date, planned maintenance				Cplex	semiconductor maintenance scheduling				198	848
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		large neighborhood search	230	880
DejemeppeCS15 [174]	16	make-span, task, precedence, setup-time, preemptive, 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, Lagrangian relaxation, ant colony, genetic algorithm	124	774
DejemeppeD14 [175]	9	make-span, precedence, job-shop, resource, activity, setup-time, job, scheduling, order, Pareto, bi-objective, multi-objective		cumulative			medical, patient		bitbucket	large neighborhood search	144	794
DemirovicS18 [178]	18	scheduling, task, precedence, order, resource, activity		Disjunctive constraint, cumulative, disjunctive		MiniZinc, Gurobi	high school timetabling		benchmark, real-world	timetabling, column generation, large neighborhood search, mat heuristic, meta heuristic, simulated annealing	77	727

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
DerrienP14 [180]	9	resource, scheduling, make-span, activity, order	psplib, CuSP	cumulative	Java	Choco Solver			random instance	sweep, edge-finding, energetic reasoning	145	795
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, large neighborhood search	146	796
DilkinaDH05 [183]	5	stochastic, machine, precedence, make-span, job, scheduling, job-shop, order				OPL				simulated annealing, systematic local search	253	903
DoomsH08 [187]	16	scheduling, stochastic, completion-time, machine, job, activity, online scheduling, resource, job-shop, task, order	RCPSP					service industry			220	870
DoulabiRP14 [190]	9	due-date, task, order, activity, scheduling, resource		Cardinality constraint, bin-packing, Element constraint		Cplex	medical, patient, nurse, surgery, operating room			column generation	147	797
EdisO11 [192]	7	task, job, resource, make-span, scheduling, flow-time, Logic-Based Benders Decomposition, tardiness, due-date, machine, completion-time, activity, lateness, earliness, Benders Decomposition, preempt	parallel machine	bin-packing, noOverlap, cumulative		OPL, Cplex				Lagrangian relaxation, genetic algorithm, meta heuristic	184	834
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	deep learning, machine learning, meta heuristic, neural network, reinforcement learning	4	654
ElkhyariGJ02 [198]	6	precedence, scheduling, machine, preempt, make-span, resource, activity, due-date, re-scheduling, task, breakdown	RCPSP, Resource-constrained Project Scheduling Problem	cumulative, disjunctive, table constraint							290	940
ElkhyariGJ02a [199]	24	activity, re-scheduling, order, scheduling, online scheduling, open-shop, due-date, task, precedence, resource, breakdown	RCPSP, psplib, Resource-constrained Project Scheduling Problem	cumulative, Disjunctive constraint, Arithmetic constraint, disjunctive		OPL	high school timetabling		benchmark, real-life	time-tabling, genetic algorithm	291	941
ErtlK91 [201]	12	setup-time, task, resource, scheduling, order, machine		cycle	Prolog		pipeline		real-world, benchmark		328	978

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EvenSH15 [204]	18	transportation, machine, distributed, resource, preempt, preemptive, order, scheduling, Benders Decomposition, completion-time, task		cumulative, disjunctive, Disjunctive constraint		OPL, Choco Solver	emergency service, evacuation		real-life, real-world	sweep, ant colony, column generation, mat heuristic	125	775
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, Pareto		Disjunctive constraint, disjunctive					real-world	edge-finding	301	951
FontaineMH16 [217]	11	order, Logic-Based Benders Decomposition, job-shop, resource, scheduling, machine, job, task, completion-time, Benders Decomposition, make-span, precedence	parallel machine	disjunctive		MiniZinc, Gurobi, CHIP			benchmark	column generation, large neighborhood search, machine learning, meta heuristic	108	758
FortinZDF05 [219]	15	resource, task, order, activity, stochastic, precedence, temporal constraint reasoning, make-span, scheduling	psplib								254	904
FrankK05 [221]	18	order, stochastic, job, periodic, resource, precedence, scheduling, due-date, task		cycle			satellite, aircraft, astronomy, telescope		benchmark		255	905
FrimodigS19 [223]	17	order, stochastic, 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	large neighborhood search	61	711
FrohnerTR19 [225]	9	order, scheduling, distributed, multi-objective			Java, Python	MiniZinc, Gecode, Gurobi	nurse		benchmark, real-world	ant colony, meta heuristic	62	712
FrostD98 [226]	1	scheduling, order					maintenance scheduling	power industry			306	956
GalleguillosKSB19 [227]	18	resource, order, job, activity, make-span, re-scheduling, machine, distributed, stochastic, scheduling	JSSP, Resource-constrained Project Scheduling Problem	alternative constraint, cumulative	Python	OR-Tools	datacenter, super-computer, high performance computing			large neighborhood search, machine learning, neural network	63	713
GarganiR07 [228]	13	machine, inventory, order, resource		bin-packing, Channeling constraint, Element constraint	C++	OPL	steel mill	steel industry	real-life, CSPlib	column generation, large neighborhood search	231	881
GayHLS15 [231]	9	resource, scheduling, precedence, task, order, make-span, activity	RCPSP, OSP, psplib	cumulative, disjunctive					bitbucket, benchmark	time-tabling, edge-finding	126	776

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
GayHS15 [232]	9	resource, task, order, scheduling, preemptive, precedence, preempt		Cumulatives constraint, cumulative, table constraint, disjunctive		Choco Solver, OR-Tools, Gecode			bitbucket	time-tabling, sweep	127	777
GayHS15a [233]	16	task, preemptive, order, machine, manpower, preempt, resource, scheduling	psplib, RCPSP	Cumulatives constraint, cumulative, disjunctive	Java				benchmark, real-world, bitbucket	time-tabling, not-first, not-last, energetic reasoning, edge-finding, sweep	128	778
GaySS14 [234]	15	machine, completion-time, activity, setup-time, continuous-process, resource, job, order, make-span, scheduling, precedence, manpower, job-shop	Partial Order Schedule	cycle, cumulative, disjunctive			steel mill		real-life, CSPlib	sweep, Lagrangian relaxation, ant colony, large neighborhood search, meta heuristic	149	799
GeibingerKKMMW21 [236]	10	scheduling, distributed		Cardinality constraint		MiniZinc, OR-Tools, Gurobi, Cplex, Gecode	nurse, physician, COVID, medical, patient	pharmaceutical industry	real-world		38	688
GeibingerMM19 [238]	16	precedence, release-date, resource, activity, re-scheduling, job, order, completion-time, scheduling, due-date, make-span, task, multi-objective	RCPSP, Resource-constrained Project Scheduling Problem	alternative constraint, cumulative, endBeforeStart, Pulse constraint, noOverlap	Java	Cplex, Gecode, MiniZinc, CPO	automotive		real-world, benchmark, real-life, generated instance, industrial partner	time-tabling	64	714
GeibingerMM21 [239]	9	precedence, release-date, resource, activity, job, order, completion-time, tardiness, scheduling, machine, due-date, task	RCPSP, Resource-constrained Project Scheduling Problem	disjunctive, cumulative		Chuffed, Cplex, CPO	nurse, train schedule, operating room		github, real-world, benchmark, real-life, generated instance	time-tabling, large neighborhood search, lazy clause generation, machine learning, simulated annealing	39	689

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GeitzGSSW22 [240]	18	setup-time, sequence dependent setup, task, lateness, precedence, batch process, make-span, preemptive, order, job, scheduling, completion-time, resource, machine, preempt, producer/consumer, job-shop, transportation	single machine, RCPSP, JSSP	cumulative		OPL	robot		real-world, real-life, github	sweep, not-last, lazy clause generation, machine learning, meta heuristic, simulated annealing	19	669
GelainPRVW17 [241]	16	order, resource, scheduling					meeting scheduling		real-life, CSPlib, benchmark		92	742
Geske05 [243]	18	machine, re-scheduling, activity, distributed, task, job, order, resource, scheduling, lateness, job-shop		cumulative	Prolog	SICStus, CHIP	train schedule, railway	railway industry	real-life	genetic algorithm	256	906
GilesH16 [245]	16	setup-time, activity, transportation, resource, inventory, task, order, scheduling		disjunctive, cumulative		Cplex	pipeline	chemical industry, processing industry, petrochemical industry, chemical processing industry			109	759
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	110	760
GodardLN05 [247]	9	job-shop, activity, completion-time, order, earliness, tardiness, resource, scheduling, machine, make-span, job, precedence	JSSP, Resource-constrained Project Scheduling Problem	cumulative, disjunctive, table constraint		Ilog Solver, Ilog Scheduler			benchmark	large neighborhood search	257	907
GodetLHS20 [249]	8	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, large neighborhood search, lazy clause generation	47	697
GokGSTO20 [251]	17	distributed, task, job-shop, resource, multi-agent, job, stochastic, setup-time, scheduling, precedence, order, tardiness, activity, bi-objective	RCPSP, Resource-constrained Project Scheduling Problem	cumulative, circuit, disjunctive	Python	Gecode, Z3, MiniZinc, Gurobi	aircraft		real-world, Roadef	GRASP, genetic algorithm, large neighborhood search, mat heuristic	48	698

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

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
GoldwaserS17 [253]	16	scheduling, machine, transportation, order, Logic-Based Benders Decomposition, resource, due-date, Benders Decomposition		cumulative, disjunctive	Python	Gurobi, Gecode	torpedo	steel industry	github, generated instance, instance generator	column generation, lazy clause generation, simulated annealing	93	743
Goltz95 [255]	14	task, job, order, resource, scheduling, precedence, job-shop, due-date, machine, completion-time		cumulative, disjunctive	Prolog	CHIP			benchmark	edge-finding	318	968
GomesHS06 [257]	2	order, scheduling, distributed, task, multi-agent				Ilog Solver			real-life		242	892
GrimesH10 [259]	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, genetic algorithm, meta heuristic, simulated annealing	199	849
GrimesH11 [260]	17	cmax, machine, job, job-shop, flow-shop, no-wait, open-shop, scheduling, precedence, order, make-span, completion-time, tardiness, release-date, earliness, task, due-date, resource	RCPSP	disjunctive, Disjunctive constraint, cumulative		Cplex, Ilog Solver, OPL, Ilog Scheduler			benchmark	edge-finding, genetic algorithm, large neighborhood search, lazy clause generation, memetic algorithm, meta heuristic	185	835
GrimesHM09 [262]	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, meta heuristic, particle swarm	207	857
GroleazNS20 [266]	17	precedence, release-date, preemptive, job, scheduling, resource, machine, preempt, due-date, tardiness, job-shop, setup-time, order, inventory	GCSP, Resource-constrained Project Scheduling Problem	circuit, noOverlap, cycle, cumulative		OR-Tools, CPO		food industry	industrial instance, benchmark	ant colony, large neighborhood search, mat heuristic, meta heuristic	49	699

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
GroleazNS20a [265]	9	scheduling, machine, transportation, order, tardiness, release-date, precedence, resource, setup-time, preempt, inventory, due-date, distributed, job, preemptive, multi-objective	parallel machine, RCPSP, Resource-constrained Project Scheduling Problem	noOverlap, cumulative, cycle		Cplex, CPO		food industry	industrial partner, benchmark	GRASP, ant colony, genetic algorithm, machine learning, meta heuristic, swarm intelligence	50	700
GruianK98 [267]	8	task, resource, re-scheduling, scheduling, order, activity		cumulative, cycle, circuit, diffn		OPL, CHIP	pipeline, aircraft		benchmark	genetic algorithm, meta heuristic	307	957
GuSS13 [268]	7	activity, order, precedence, make-span, resource, distributed, scheduling, machine, single-machine scheduling, net present value	single machine, Resource-constrained Project Scheduling Problem	cumulative					benchmark	edge-finding, edge-finder, time-tabling, Lagrangian relaxation, genetic algorithm, lazy clause generation, meta heuristic	157	807
GuSW12 [270]	15	activity, order, precedence, make-span, resource, job, preempt, scheduling, preemptive, cmax, net present value	Resource-constrained Project Scheduling Problem	cumulative	C++				benchmark	Lagrangian relaxation, ant colony, lazy clause generation	170	820
HanenKP21 [281]	17	job-shop, resource, machine, precedence, order, tardiness, preempt, release-date, preemptive, scheduling, make-span, completion-time, task, cmax, job, lateness, due-date	RCPSP, CuSP, parallel machine, Resource-constrained Project Scheduling Problem	cumulative	Python	Claire	pipeline		Roadef, generated instance, random instance	energetic reasoning	40	690
He0GLW18 [288]	18	machine, transportation, multi-agent, distributed, precedence, re-scheduling, order, scheduling, multi-objective			Python	Gurobi	energy-price, real-time pricing		real-world, bit-bucket	quadratic programming	78	728
HebrardALLCMR22 [289]	7	order, scheduling, activity		cumulative	Julia	Claire	deep space			sweep	20	670
HebrardTW05 [291]	1	job-shop, order, job, machine, scheduling									258	908
HechingH16 [292]	11	order, scheduling, manpower, re-scheduling, job, Benders Decomposition, stochastic, Logic-Based Benders Decomposition, task		circuit, noOverlap		OPL, Cplex	patient, medical		real-world	mat heuristic	111	761

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
HeinzB12 [294]	17	Logic-Based Benders Decomposition, precedence, due-date, order, tardiness, scheduling, completion-time, machine, job, activity, release-date, single-machine scheduling, earliness, resource, Benders Decomposition	single machine	cumulative, Channeling constraint, cycle, alternative constraint, IloAlternative		SCIP, Ilog Solver, OPL, Cplex, Ilog Scheduler				GRASP	171	821
HeinzKB13 [295]	16	release-date, Logic-Based Benders Decomposition, job-shop, resource, machine, job, scheduling, Benders Decomposition, order, tardiness	single machine	cumulative, Channeling constraint		SCIP, Cplex, OPL				meta heuristic	158	808
HeinzS11 [297]	10	preempt, order, scheduling, completion-time, machine, job, resource	psplib, RCPSP, Resource-constrained Project Scheduling Problem	disjunctive, cumulative		SCIP, Cplex			benchmark	time-tabling, energetic reasoning	186	836
HentenryckM04 [302]	16	resource, activity, job, completion-time, tardiness, scheduling, machine, open-shop, order, due-date, make-span, task, job-shop, precedence		disjunctive, cumulative, cycle					benchmark	meta heuristic	270	920
HentenryckM08 [303]	5	order		bin-packing			steel mill		CSPlib	large neighborhood search	221	871
HermenierDL11 [304]	15	task, precedence, distributed, resource, periodic, completion-time, producer/consumer, machine, no-wait, order, scheduling		bin-packing, disjunctive, table constraint, alldifferent, cumulative, cycle		Choco Solver	datacenter			meta heuristic	187	837
HillTV21 [306]	19	machine, job, activity, resource, release-date, precedence, single-machine scheduling, preempt, scheduling, flow-shop, task, preemptive, order, make-span, bi-objective, net present value	RCPSP, psplib, single machine, Resource-constrained Project Scheduling Problem	cycle, cumulative, alternative constraint					real-world	genetic algorithm, lazy clause generation, machine learning	41	691
HoYCLLCLC18 [307]	6	task, stochastic, distributed, order, job, scheduling, resource, machine, re-scheduling, sustainability			C		medical, patient, nurse		real-world		79	729
HoeveGSL07 [619]	6	resource, multi-agent, scheduling, re-scheduling, job, precedence, distributed, task, job-shop, machine, order		disjunctive		Ilog Scheduler, Cplex			benchmark	edge-finding	232	882

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
Hooker04 [309]	12	machine, task, release-date, make-span, distributed, resource, Logic-Based Benders Decomposition, precedence, order, tardiness, scheduling, Benders Decomposition		disjunctive, cumulative, circuit		OPL, Ilog Scheduler, Cplex			random instance	MINLP	271	921
Hooker05a [311]	14	release-date, scheduling, Logic-Based Benders Decomposition, make-span, task, machine, job, due-date, resource, Benders Decomposition, precedence, order, tardiness		circuit, cumulative, disjunctive		Ilog Scheduler, OPL, Cplex				MINLP	259	909
Hooker17 [315]	14	job, resource, due-date, order, tardiness, scheduling		circuit					benchmark, random instance		94	744
HookerY02 [319]	5	scheduling, Logic-Based Benders Decomposition, machine, job, resource, Benders Decomposition, order	RCPSP	cumulative, disjunctive							292	942
HoundjiSWD14 [321]	16	scheduling, machine, transportation, order, precedence, resource, inventory, due-date	single machine	circuit, Cardinality constraint, Element constraint, GCC constraint					bitbucket, generated instance		150	800
IfrimOS12 [324]	16	order, periodic, scheduling, task, machine, job, re-scheduling, stochastic, distributed, due-date, resource, sustainability		disjunctive			datacenter, energy-price		real-life	genetic algorithm, machine learning, neural network	172	822
JelinekB16 [329]	10	completion-time, order, scheduling, task		cumulative, table constraint	Prolog	SICStus, OPL			real-life		112	762
JungblutK22 [331]	4	distributed, machine, make-span, scheduling, resource, preempt, task, order		circuit		MiniZinc			benchmark, github, real-world		21	671
JuvinHHL23 [332]	16	resource, job, scheduling, Logic-Based Benders Decomposition, task, job-shop, preemptive, due-date, machine, make-span, flow-shop, completion-time, precedence, Benders Decomposition, cmax, setup-time, order, preempt	JSSP, parallel machine	disjunctive, Disjunctive constraint, PreemptiveNoOverlap, alldifferent, noOverlap, endBeforeStart, AllDiffPrec constraint, cumulative	C++	CPO, Mistral			github, benchmark, supplementary material	not-last, edge-finding, not-first, genetic algorithm	5	655
JuvinHL23 [334]	16	precedence, order, tardiness, setup-time, scheduling, make-span, completion-time, task, cmax, machine, job, stochastic, job-shop, flow-shop, breakdown		noOverlap, endBeforeStart		Cplex, CPO			real-world		6	656

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
KamarainenS02 [336]	17	job-shop, preemptive, resource, earliness, activity, job, order, scheduling, machine, precedence, transportation, preempt	KRFP			ECLiPSe			real-world, benchmark	genetic algorithm, meta heuristic, simulated annealing	293	943
KameugneFGOQ18 [339]	17	cmax, precedence, make-span, completion-time, resource, task, scheduling, order	RCPSP, CuSP, Resource-constrained Project Scheduling Problem	Disjunctive constraint, cumulative, disjunctive	Java	CHIP, Choco Solver			real-world, benchmark	time-tabling, sweep, not-last, energetic reasoning, not-first	80	730
KameugneFND23 [340]	17	precedence, cmax, preempt, make-span, task, completion-time, machine, resource, order, scheduling	RCPSP, psplib, CuSP, Resource-constrained Project Scheduling Problem	Disjunctive constraint, disjunctive, Cumulatives constraint, cumulative	Java	Choco Solver, CHIP			benchmark	sweep, energetic reasoning, not-last, not-first, edge-finder, time-tabling, edge-finding, lazy clause generation	7	657
KameugneFSN11 [341]	15	completion-time, job-shop, preemptive, 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	188	838
KelarevaTK13 [344]	17	re-scheduling, task, Benders Decomposition, precedence, scheduling, transportation, setup-time, order, tardiness, make-span, resource, activity, inventory, multi-objective, net present value	Liner Shipping Fleet Repositioning Problem, BPCTOP, LSFRP, Bulk Port Cargo Throughput Optimisation Problem, Resource-constrained Project Scheduling Problem	alldifferent		Cplex, SCIP, MiniZinc	earth observation, shipping line, satellite		real-world	lazy clause generation	159	809
KeriK07 [346]	14	due-date, activity, earliness, resource, tardiness, job, temporal constraint reasoning, order, make-span, scheduling, precedence, cmax, job-shop	RCPSP, Resource-constrained Project Scheduling Problem	cycle	C++					edge-finding	233	883

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
KhemmoudjPB06 [348]	13	distributed, resource, stock level, order, scheduling, unavailability		cycle, cumulative	C++	CHIP			real-world	meta heuristic	243	893
KimCMLLP23 [349]	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	Lagrangian relaxation, genetic algorithm, large neighborhood search, mat heuristic, meta heuristic	8	658
KlankeBYE21 [350]	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	692
KletzanderM17 [351]	15	machine, resource, order, scheduling, transportation	parallel machine				torpedo	steel industry		genetic algorithm, meta heuristic, neural network, simulated annealing	95	745
KorbaaYG99 [355]	8	resource, scheduling, transportation, make-span, job, periodic, task, job-shop, machine, flow-shop, order, cyclic scheduling		circuit, cycle	Prolog	Ilog Solver, CHIP, OZ	robot, hoist				303	953
KoschB14 [357]	16	resource, lateness, job-shop, release-date, Logic-Based Benders Decomposition, 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	column generation, meta heuristic	151	801
KovacsB07 [358]	15	order, tardiness, activity, preempt, release-date, earliness, single-machine scheduling, scheduling, make-span, completion-time, job, preemptive, due-date, job-shop, flow-shop, resource, machine	parallel machine, single machine	Completion constraint, cumulative	C++	Ilog Solver			benchmark	column generation	234	884
KovacsEKV05 [361]	1	scheduling, resource, setup-time, job-shop, precedence, job	Resource-constrained Project Scheduling Problem						real-life		260	910

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
KovacsTKSG21 [365]	17	precedence, job-shop, preempt, order, tardiness, inventory, distributed, resource, due-date, scheduling, machine, flow-shop, job, re-scheduling, task, preemptive, release-date, breakdown, planned maintenance, unavailability	RCPSP, single machine	cumulative		Gurobi, OR-Tools, Cplex			github, supplementary material, real-world, benchmark	machine learning, meta heuristic, neural network, re-inforcement learning	43	693
KovacsV04 [363]	15	scheduling, make-span, task, job, job-shop, resource, machine, precedence, order	single machine, Resource-constrained Project Scheduling Problem	disjunctive, cumulative		Ilog Scheduler			industrial partner, benchmark, real-life	edge-finding	272	922
KovacsV06 [364]	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		244	894
KreterSS15 [366]	17	order, preempt, resource, scheduling, task, preemptive, machine, activity, make-span, completion-time, periodic, unavailability	RCPSP, parallel machine, Resource-constrained Project Scheduling Problem	cumulative, diffn, Element constraint, Calendar constraint		Cplex, MiniZ-inc, CHIP, Chuffed			benchmark	lazy clause generation	129	779
KrogtLPHJ07 [618]	13	resource, due-date, job-shop, precedence, order, job, inventory, activity, machine, scheduling		circuit	Prolog	OPL	semiconductor, aircraft	semiconductor industry	real-world		235	885
KucukY19 [372]	5	distributed, resource, sequence dependent setup, task, order, scheduling, stochastic, setup-time, multi-objective		disjunctive, noOverlap, cycle		Cplex	earth observation, satellite		benchmark, generated instance	time-tabling, ant colony, column generation, genetic algorithm, large neighborhood search, meta heuristic, simulated annealing	65	715
Kumar03 [371]	15	order, scheduling, producer/consumer, activity, resource		cycle						max-flow, bi-partite matching	282	932

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
Laborie09 [374]	15	task, machine, job, sequence dependent setup, inventory, due-date, job-shop, preempt, resource, precedence, order, tardiness, activity, setup-time, release-date, earliness, preemptive, scheduling, breakdown		noOverlap, endBeforeStart, cumulative, disjunctive, alternative constraint	C	CPO, OPL	satellite, aircraft		real-world, benchmark	genetic algorithm, large neighborhood search	208	858
Laborie18a [375]	9	resource, job, release-date, scheduling, Logic-Based Benders Decomposition, task, due-date, machine, precedence, Benders Decomposition		cumulative, alternative constraint		Ilog Scheduler, CPO, OPL			real-world, real-life, benchmark	energetic reasoning, large neighborhood search	81	731
LacknerMMWW21 [377]	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, ant colony, genetic algorithm, large neighborhood search, meta heuristic, particle swarm, simulated annealing	44	694
LahimerLH11 [379]	14	resource, machine, preempt, cmax, task, precedence, make-span, preemptive, order, job, scheduling, completion-time	parallel machine, RCPSP, Resource-constrained Project Scheduling Problem	Disjunctive constraint, disjunctive	C++	Ilog Scheduler			benchmark	energetic reasoning, ant colony, genetic algorithm, memetic algorithm	189	839
LauLN08 [382]	5	job, order, resource, scheduling, transportation, job-shop, machine, distributed, inventory, flow-shop							real-world, benchmark	Lagrangian relaxation	222	872
LetortBC12 [387]	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, meta heuristic	173	823
LetortCB13 [388]	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, meta heuristic	160	810

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
LiFJZLL22 [391]	6	completion-time, task, tardiness, buffer-capacity, flow-time, blocking constraint, distributed, job-shop, batch process, flow-shop, transportation, machine, job, stochastic, setup-time, no-wait, scheduling, order, make-span, multi-objective	single machine	Blocking constraint		OPL	robot		benchmark	genetic algorithm, machine learning, memetic algorithm, meta heuristic	22	672
LimBTBB15 [395]	15	scheduling, order, tardiness, earliness, job-shop, multi-agent, machine, job, re-scheduling, stochastic				OPL	HVAC, meeting scheduling		benchmark	time-tabling, MINLP, large neighborhood search, meta heuristic	130	780
LimHTB16 [394]	18	machine, activity, online scheduling, multi-agent, distributed, re-scheduling, order, scheduling, stochastic		cumulative		OPL	HVAC, energy-price, real-time pricing, meeting scheduling		real-world	large neighborhood search, meta heuristic	113	763
LimRX04 [393]	5	scheduling, machine, preempt, completion-time, transportation, preemptive, job, stochastic, order					container terminal		generated instance	simulated annealing	273	923
Limtanyakul07 [396]	6	make-span, task, release-date, machine, resource, job, order, scheduling, due-date, precedence		cumulative		OPL	robot	automobile industry	real-life	energetic reasoning	236	886
LipovetzkyBPS14 [398]	9	make-span, scheduling, resource, precedence, Benders Decomposition, task, order, transportation, breakdown		disjunctive		Cplex	crew-scheduling		real-life, real-world, industrial partner, industry partner, benchmark, generated instance		152	802
LiuCGM17 [400]	17	order, scheduling, machine, task, activity, transportation, cmax		Element constraint	Python	OR-Tools, OPL, MiniZinc		tourism industry	github	column generation, simulated annealing	96	746
LiuJ06 [401]	5	make-span, resource, task, order, scheduling, multi-objective		disjunctive, Disjunctive constraint, cycle							245	895
LiuLH19 [399]	9	order, resource, scheduling		Channeling constraint		Choco Solver			benchmark, CSPlib	time-tabling, meta heuristic	66	716

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
LombardiBM15 [403]	16	task, completion-time, precedence, scheduling, machine, stochastic, order, make-span, job-shop, resource, activity, distributed, job	JSSP, RCPSP, psplib, Partial Order Schedule, Resource-constrained Project Scheduling Problem						benchmark, real-world	large neighborhood search	131	781
LombardiBMB11 [404]	17	order, make-span, task, precedence, stochastic, resource, activity, periodic, completion-time, scheduling, machine, cyclic scheduling	RCPSP	cycle, cumulative	C++		hoist		benchmark, industrial instance, real-life		190	840
LombardiM09 [405]	15	precedence, make-span, order, activity, scheduling, resource, preempt, preemptive, completion-time, task, stochastic	RCPSP, Resource-constrained Project Scheduling Problem	Balance constraint		Ilog Solver			instance generator, real-world		209	859
LombardiM10 [407]	15	precedence, make-span, order, activity, scheduling, resource, completion-time, task, stochastic	RCPSP, Partial Order Schedule, Resource-constrained Project Scheduling Problem	Disjunctive constraint, disjunctive, cumulative		Ilog Solver			real-world, benchmark		200	850
LombardiM13 [410]	2	precedence, make-span, order, activity, scheduling, resource, task	RCPSP, psplib, Resource-constrained Project Scheduling Problem								161	811
LouieVNB14 [416]	7	order, resource, job, periodic, scheduling, task, machine, activity		cycle		OPL	patient, robot				153	803
LuoB22 [420]	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, forging industry	real-life, industry partner, real-world, generated instance, github, industrial instance		23	673
LuoVLBM16 [419]	4	task, job, job-shop, resource, machine, precedence, order, activity, scheduling					nurse			time-tabling	114	764
Madi-WambaB16 [421]	16	precedence, task, resource, job, order, scheduling, sustainability		cumulative, TaskIntersection constraint	Java	Choco Solver, CHIP			real-world, benchmark, random instance, generated instance		115	765

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Madi-WambaLOBM17 [422]	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	97	747
MakMS10 [423]	5	inventory, task, job, resource, scheduling, due-date, order, machine, activity, transportation, precedence		cycle						genetic algorithm	201	851
MalapertCGJLR13 [426]	2	flow-shop, preemptive, 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	ant colony, genetic algorithm, meta heuristic, particle swarm	162	812
MalapertN19 [427]	17	sequence dependent setup, order, job, flow-time, machine, cmax, make-span, scheduling, completion-time, resource, setup-time, task, single-machine scheduling, bi-objective, breakdown	PMSP, PTC, parallel machine, single machine	noOverlap, cumulative, alternative constraint, alwaysIn		Cplex, CPO	semiconductor		benchmark, generated instance, industrial instance, Roadef		67	717
MaraveliasG04 [430]	20					OZ					274	924
Mehdizadeh-Somarin23 [435]	14	make-span, preempt, multi-agent, completion-time, tardiness, preemptive, scheduling, cmax, job, setup-time, precedence, order, online scheduling, stochastic, job-shop, re-scheduling, machine, flow-shop, single-machine scheduling, task, periodic, bi-objective, reactive scheduling, sustainability, unavailability	JSSP, parallel machine, single machine		Python	Cplex	COVID, robot		random instance	genetic algorithm, machine learning, meta heuristic, reinforcement learning, simulated annealing	9	659
MelgarejoLS15 [11]	17	tardiness, scheduling, machine, order, task, precedence, transportation, setup-time, resource, one-machine scheduling, job	single machine	alldifferent, noOverlap, circuit, Disjunctive constraint, disjunctive, table constraint		Cplex			real-world, benchmark	ant colony, large neighborhood search, meta heuristic, simulated annealing	132	782
Mercier-AubinGQ20 [442]	13	order, Benders Decomposition, Logic-Based Benders Decomposition, job, make-span, preemptive, sequence dependent setup, tardiness, resource, precedence, completion-time, machine, activity, due-date, preempt, task, setup-time, earliness, job-shop, scheduling	RCPSP	circuit, cumulative, disjunctive, cycle	C++, Python	OPL, MiniZinc		textile industry, manufacturing industry	industrial instance, industrial partner	genetic algorithm, large neighborhood search, lazy clause generation	51	701

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MoffittPP05 [447]	6	order, activity, machine, cmax, make-span, scheduling, resource	Temporal Constraint Satisfaction Problem	cycle, disjunctive			meeting scheduling				261	911
MonetteDD07 [449]	14	machine, precedence, make-span, preemptive, 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	237	887
MonetteDH09 [450]	8	machine, precedence, release-date, tardiness, make-span, preemptive, job, scheduling, completion-time, resource, preempt, earliness, due-date, task, job-shop, order, activity, distributed		cycle, disjunctive, cumulative					benchmark	not-last, large neighborhood search	210	860
MossigeGSMC17 [453]	18	activity, job, order, completion-time, scheduling, machine, precedence, distributed, preempt, make-span, task, job-shop, preemptive, resource, net present value	single machine, FJS, RCPSP, Resource-constrained Project Scheduling Problem	Cumulatives constraint, cumulative, cycle, disjunctive	Prolog	CHIP, SIC-Stus	robot, rectangle-packing		real-world, benchmark, random instance, CSPlib, generated instance, industrial partner	genetic algorithm, lazy clause generation, meta heuristic	98	748
MouraSCL08 [455]	16	scheduling, preempt, transportation, precedence, distributed, preemptive, activity, order, inventory, resource		table constraint, Element constraint, Channeling constraint, cycle, disjunctive	C++	Ilog Solver, Ilog Scheduler	pipeline			max-flow, genetic algorithm	223	873
MouraSCL08a [454]	8	order, scheduling, resource, transportation, re-scheduling, due-date, inventory, distributed, reactive scheduling		Channeling constraint, disjunctive, cumulative	C++	Ilog Scheduler, Ilog Solver	pipeline		real-world, benchmark	MINLP, genetic algorithm, meta heuristic	224	874
MurinR19 [457]	16	job-shop, Logic-Based Benders Decomposition, 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	genetic algorithm, large neighborhood search, meta heuristic	68	718
MurphyMB15 [458]	17	scheduling, task, machine, activity, periodic, stochastic, order, re-scheduling, resource		cycle, circuit, Disjunctive constraint, cumulative, disjunctive	Java	Choco Solver	meeting scheduling		real-world		133	783
Muscettola02 [459]	16	job-shop, resource, activity, job, cmax, stochastic, precedence, scheduling, order		cycle, Balance constraint						edge-finding, max-flow	294	944
MusliuSS18 [460]	17	distributed, activity, order, scheduling, manpower, task, machine, cyclic scheduling		Regular constraint, cycle, Cardinality constraint		Gecode, Gurobi, MiniZinc	operating room, nurse, workforce scheduling		generated instance, benchmark, real-life	column generation	82	732

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

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
NattafM20 [472]	16	setup-time, scheduling, order, make-span, completion-time, flow-time, resource, machine, job, bi-objective	single machine, PMSP, parallel machine, PTC	cumulative, noOverlap		CPO, Cplex	semiconductor		benchmark, industrial instance		52	702
NishikawaSTT18 [475]	6	order, precedence, scheduling, make-span, resource, activity, task, distributed		alternative constraint, endBeforeStart		Cplex	pipeline, robot		real-world, benchmark	genetic algorithm	83	733
NishikawaSTT18a [476]	6	order, make-span, scheduling, resource, precedence, task, activity, distributed, re-scheduling		endBeforeStart, alternative constraint		Cplex	nurse, pipeline, robot		benchmark, real-life, real-world	genetic algorithm	84	734
NuijtenA94 [483]	5	resource, scheduling, preempt, machine, make-span, job, precedence, job-shop, preemptive, completion-time, order	JSSP	disjunctive, Disjunctive constraint	C++	Ilog Solver, CPO				time-tabling	325	975
OddiPCC03 [487]	15	distributed, resource, machine, preempt, single-machine scheduling, scheduling, precedence, order, completion-time, task, activity, periodic	single machine	cycle	Java		satellite, earth observation		benchmark	meta heuristic	283	933
OuelletQ13 [491]	16	scheduling, task, preemptive, make-span, completion-time, precedence, order, preempt, resource	RCPSP, CuSP, psplib, Resource-constrained Project Scheduling Problem	Cumulatives constraint, cumulative, disjunctive		Choco Solver			benchmark	edge-finder, energetic reasoning, time-tabling, sweep, edge-finding, not-first, not-last	163	813
OuelletQ18 [492]	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	85	735
OuelletQ22 [493]	17	scheduling, task, activity, completion-time, order, preempt, resource		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, lazy clause generation	24	674

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
OujanaAYB22 [494]	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, multi-objective	HFF, PMSP, parallel machine, FJS	span constraint, noOverlap, disjunctive		CPO, OPL	robot, COVID	steel industry, food industry	industrial instance, real-world, benchmark, real-life	genetic algorithm, meta heuristic, particle swarm	25	675
ParkUJR19 [501]	8	machine, order, tardiness, preempt, scheduling, make-span, completion-time, task, flow-time, cmax, job, lateness, stochastic, no preempt, distributed, due-date, job-shop, flow-shop, resource, open-shop	parallel machine, single machine	endBeforeStart, cycle, noOverlap				trade industry	real-world	meta heuristic	69	719
PembertonG98 [502]	14	preemptive, scheduling, machine, stochastic, periodic, order, job-shop, resource, activity, preempt, job, task		geost, cycle		Ilog Solver, OPL	robot, satellite, telescope				308	958
PerezGSL23 [504]	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	large neighborhood search, mat heuristic, meta heuristic	10	660
PesantRR15 [506]	16	transportation, scheduling, activity, order		cumulative, Cardinality constraint, Regular constraint, table constraint		Ilog Solver, Gecode, Gurobi	meeting scheduling			lazy clause generation	134	784
PoderB08 [508]	8	resource, release-date, preempt, due-date, preemptive, order, scheduling, producer/consumer, task, activity		cumulative		CHIP				sweep	225	875
PopovicCGNC22 [512]	15	order, completion-time, scheduling, machine, transportation, stochastic, make-span, task, resource, activity, periodic, bi-objective, sustainability	TMS	Balance constraint, cumulative, noOverlap, alwaysIn	C++, Prolog	SICStus, Cplex, CHIP	pipeline, maintenance scheduling	electricity industry		machine learning	26	676
PovedaAA23 [514]	21	make-span, resource, job, precedence, Benders Decomposition, release-date, task, job-shop, preemptive, activity, order, scheduling, preempt, unavailability	RCPSP, Resource-constrained Project Scheduling Problem	Calendar constraint, cumulative, disjunctive	Python	Cplex, MiniZinc, Chuffed, CPO	automotive, aircraft		github, benchmark, industrial instance, real-world, real-life	GRASP, genetic algorithm, large neighborhood search, lazy clause generation, meta heuristic, simulated annealing	11	661

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
Pralet17 [515]	19	setup-time, job, activity, job-shop, sequence dependent setup, resource, scheduling, precedence, due-date, order, make-span, machine	JSSP, RCPSP, psplib, Resource-constrained Project Scheduling Problem	cycle, cumulative, disjunctive		CPO, Cplex, CHIP	satellite		benchmark	genetic algorithm, large neighborhood search, meta heuristic	99	749
PraletLJ15 [516]	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			large neighborhood search	135	785
Puget95 [518]	4	resource, task, job, order, scheduling, transportation, manpower, job-shop, activity		disjunctive		OPL	maintenance scheduling		benchmark		319	969
QuSN06 [521]	4	task, scheduling, precedence, distributed, resource		circuit	Prolog	SICStus					246	896
QuirogaZH05 [522]	6	machine, release-date, tardiness, scheduling, completion-time, resource, earliness, due-date, task, precedence, flow-shop, make-span, order, inventory, activity, flow-time, breakdown, multi-objective				Ilog Solver, OPL, ECLiPSe, Ilog Scheduler	robot				262	912
RendlPHPR12 [524]	17	job, scheduling, machine, periodic, transportation, re-scheduling, order			Java		medical, patient, nurse		real-world, CSPlib, benchmark	genetic algorithm, large neighborhood search, memetic algorithm, meta heuristic, simulated annealing	174	824
RiahiNS018 [525]	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			high performance computing	cutting industry, painting industry	real-world, real-life, benchmark	NEH, GRASP, ant colony, genetic algorithm, memetic algorithm, meta heuristic, simulated annealing	86	736
RodosekW98 [526]	15	order, resource, scheduling, task, transportation, machine, activity, make-span, job, cyclic scheduling		disjunctive, cycle, circuit, Disjunctive constraint	Prolog	OPL, CHIP, ECLiPSe, Cplex	hoist, electroplating		benchmark		309	959

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
Rodriguez07b [528]	14	re-scheduling, task, blocking constraint, release-date, precedence, scheduling, transportation, order, no-wait, job-shop, resource, activity, job		Blocking constraint, Disjunctive constraint, circuit, disjunctive		Ilog Scheduler, Z3, Ilog Solver	railway, train schedule	railway industry		edge-finding	238	888
RodriguezS09 [530]	14	blocking constraint, completion-time, Benders Decomposition, precedence, scheduling, transportation, order, no-wait, Logic-Based Benders Decomposition, job-shop, resource, activity, job, task		Blocking constraint, Disjunctive constraint, circuit, disjunctive		Ilog Scheduler, Ilog Solver	railway, train schedule			edge-finding	211	861
RossiTHP07 [534]	15	stochastic, inventory, order, resource, periodic, scheduling, distributed, stock level		cumulative, cycle		OPL, Choco Solver					239	889
Sadykov04 [537]	7	release-date, scheduling, completion-time, task, machine, job, lateness, one-machine scheduling, due-date, preempt, precedence	parallel machine, single machine	disjunctive						edge-finding, column generation, genetic algorithm	275	925
SchausD08 [540]	6	precedence, order, preemptive, task, preempt		IloPack, bin-packing, cycle, Reified constraint, Element constraint		Ilog Solver, OPL			real-life, benchmark	large neighborhood search	226	876
SchuttCSW12 [545]	17	scheduling, resource, preempt, order, activity, precedence, make-span, preemptive, net present value	Resource-constrained Project Scheduling Problem	cumulative		CHIP			benchmark	lazy clause generation	175	825
SchuttFS13 [547]	17	resource, job, scheduling, task, job-shop, machine, activity, make-span, completion-time, precedence, order, net present value	RCPSP, FJS	disjunctive, Disjunctive constraint, span constraint, alternative constraint, cumulative		MiniZinc			benchmark	energetic reasoning, time-tabling, large neighborhood search, lazy clause generation	164	814
SchuttFS13a [546]	17	make-span, preemptive, scheduling, completion-time, resource, machine, preempt, task, order, activity, precedence	psplib, RCPSP, Resource-constrained Project Scheduling Problem	circuit, disjunctive, cumulative		SCIP, CHIP			benchmark	not-last, energetic reasoning, edge-finding, lazy clause generation	165	815
SchuttFSW09 [548]	16	scheduling, resource, machine, preempt, periodic, open-shop, task, order, activity, precedence, make-span, preemptive, job	psplib, Resource-constrained Project Scheduling Problem	Disjunctive constraint, disjunctive, cumulative		ECLiPSe, CHIP, SICStus			real-world, benchmark	edge-finder, lazy clause generation	212	862

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
SchuttS16 [553]	17	machine, precedence, order, inventory, activity, preempt, manpower, scheduling, make-span, producer/consumer, preemptive, resource, net present value	RCPSP, Resource-constrained Project Scheduling Problem	Balance constraint, Cumulatives constraint, cumulative		Chuffed, MiniZinc, OPL, Ilog Scheduler			benchmark	lazy clause generation	116	766
SchuttW10 [554]	15	order, activity, preempt, release-date, scheduling, make-span, task, preemptive, due-date, resource	CuSP, psplib, RCPSP	disjunctive, Disjunctive constraint, cumulative	Java	CHIP	rectangle-packing		benchmark	not-last, edge-finding, not-first, lazy clause generation	202	852
SchuttWS05 [555]	15	task, preemptive, due-date, machine, order, preempt, resource, release-date, scheduling		cumulative, disjunctive		OPL, CHIP			benchmark	not-last	263	913
SerraNM12 [556]	17	inventory, preempt, resource, precedence, order, activity, release-date, preemptive, scheduling, machine, unavailability		cumulative, alwaysIn, cycle		OPL, Cplex			real-world, benchmark	GRASP, meta heuristic	176	826
SialaAH15 [563]	10	make-span, task, cmax, job, job-shop, resource, open-shop, machine, precedence, order, tardiness, setup-time, earliness, scheduling	RCPSP, JSSP, Resource-constrained Project Scheduling Problem	Disjunctive constraint, cumulative, disjunctive		Mistral			github, benchmark	edge-finding, conflict-driven clause learning, large neighborhood search, lazy clause generation	136	786
SimoninAHL12 [564]	15	resource, activity, scheduling, task, preemptive, precedence, periodic, preempt, order		disjunctive, span constraint, cycle, cumulative		CHIP	satellite			sweep	177	827
Simonis95 [567]	4	scheduling, task, producer/consumer, resource, transportation, machine, precedence, order		diffn, Among constraint, cumulative, cycle, circuit	Prolog	CHIP	aircraft	food industry			320	970
Simonis95a [566]	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, business process	chemical industry, drawing industry	real-life, benchmark		321	971
Simonis99 [568]	39	scheduling, task, producer/consumer, job, stochastic, 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, maintenance scheduling, nurse, business process	chemical industry, food industry, process industry	benchmark, real-world, real-life	bi-partite matching, meta heuristic	304	954

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
SimonisC95 [571]	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, maintenance scheduling	food industry	real-life		322	972
SimonisH11 [572]	14	preempt, manpower, task, preemptive, order, producer/consumer, resource, scheduling		Element constraint, CumulativeCost, Cumulatives constraint, cumulative		Choco Solver, CHIP, Cplex			real-life, real-world	sweep, edge-finding	191	841
SquillaciPR23 [574]	17	multi-agent, distributed, periodic, task, resource, activity, order, scheduling, multi-objective	EOSP, OSP, Earth Observation Scheduling Problem	noOverlap	Python	Cplex	earth orbit, earth observation, satellite		github, benchmark	GRASP, column generation, large neighborhood search, meta heuristic, neural network, simulated annealing	12	662
SunLYL10 [577]	6	task, order, distributed, periodic, scheduling		cycle		OPL, Cplex	automotive			simulated annealing	203	853
SvancaraB22 [579]	8	multi-agent, batch process, make-span, order, activity, scheduling, resource, task		alternative constraint, noOverlap			train schedule, railway		benchmark, real-world	time-tabling, reinforcement learning	27	677
SzerediS16 [580]	10	task, preemptive, machine, activity, order, preempt, make-span, resource, precedence, scheduling, net present value	RCPSP, psplib, Resource-constrained Project Scheduling Problem	Element constraint, cumulative		Cplex, MiniZinc, SCIP, Chuffed, Gecode			benchmark	lazy clause generation	117	767
TanT18 [582]	12	flow-shop, Benders Decomposition, machine, single-machine scheduling, cmax, release-date, job-shop, task, scheduling, completion-time, precedence, make-span, re-scheduling, Logic-Based Benders Decomposition, job, setup-time	single machine, parallel machine	Disjunctive constraint, disjunctive		Cplex	medical, operating room, patient, robot		benchmark	genetic algorithm, meta heuristic	87	737

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
TangB20 [583]	16	job, flow-shop, resource, make-span, scheduling, Logic-Based Benders Decomposition, tardiness, due-date, order, batch process, machine, two-stage scheduling, 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	simulated annealing	53	703
TardivoDFMP23 [585]	18	activity, order, scheduling, task, precedence, preempt, make-span, resource	RCPSP, psplib, CuSP	cumulative, disjunctive, Cumulatives constraint	C++	CHIP, Gecode, MiniZinc			benchmark, bitbucket, github, real-world	sweep, energetic reasoning, not-last, not-first, edge-finding, time-tabling, lazy clause generation	13	663
TasselGS23 [586]	9	flow-shop, completion-time, order, tardiness, resource, scheduling, preempt, flow-time, task, machine, re-scheduling, make-span, job, precedence, periodic, job-shop	JSSP	cumulative, disjunctive, noOverlap	Java	Choco Solver			industrial instance, real-world, supplementary material, github, benchmark	genetic algorithm, large neighborhood search, machine learning, meta heuristic, neural network, reinforcement learning, simulated annealing	14	664
Teppan22 [589]	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	genetic algorithm	28	678
Tesch16 [592]	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, large neighborhood search	118	768

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
Tesch18 [593]	17	preempt, task, job, release-date, resource, make-span, scheduling, single-machine scheduling, due-date, order, machine, completion-time, preemptive, precedence, lateness	CuSP, psplib, RCPSP, single machine, Resource-constrained Project Scheduling Problem	cumulative					Roadef	energetic reasoning, sweep, edge-finding, not-last, time-tabling	88	738
ThiruvadyBME09 [594]	15	due-date, stochastic, make-span, resource, setup-time, tardiness, open-shop, machine, single-machine scheduling, job, scheduling, order	single machine	cumulative	C++	Gecode				ant colony, meta heuristic	213	863
ThomasKS20 [596]	18	order, transportation, resource, scheduling, activity		cumulative	C , Java	CPO, OR-Tools, OPL, Cplex	medical, patient		CSPlib, benchmark, generated instance, bitbucket	large neighborhood search	54	704
Thorsteinsson01 [597]	15	order, Benders Decomposition, scheduling, job, machine, precedence, task, due-date, Logic-Based Benders Decomposition	parallel machine	alldifferent, cumulative, circuit, Arithmetic constraint		OPL					297	947
Tom19 [599]	6	task, tardiness, single-machine scheduling, resource, job-shop, job, re-scheduling, activity, scheduling, make-span, machine, transportation, multi-objective	single machine		Java	OPL			real-world	genetic algorithm, simulated annealing	70	720
TouatBT22 [602]	8	job, no preempt, distributed, due-date, job-shop, flow-shop, resource, machine, precedence, order, tardiness, activity, preempt, release-date, earliness, periodic, single-machine scheduling, scheduling, make-span, completion-time, task, multi-objective, planned maintenance, unavailability	RCPSP, single machine	noOverlap		Cplex, OPL	robot, satellite, container terminal		generated instance, benchmark	time-tabling, meta heuristic	29	679
Touraivane95 [603]	3	order, scheduling, task			Prolog		crew-scheduling		real-life		323	973
TranB12 [605]	6	setup-time, due-date, Benders Decomposition, release-date, resource, make-span, scheduling, single-machine scheduling, Logic-Based Benders Decomposition, sequence dependent setup, tardiness, job, order, machine, completion-time, distributed, precedence, cmax	PMSP, single machine, parallel machine	cycle, circuit	C++	Cplex			benchmark	ant colony, column generation, meta heuristic, simulated annealing	178	828

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
TranDRFWOVB16 [606]	9	resource, activity, re-scheduling, job, order, scheduling, machine, stochastic, task, job-shop, precedence		cycle	Python	OPL	aircraft			deep learning, meta heuristic, neural network, simulated annealing	119	769
TranTDB13 [608]	9	flow-shop, resource, cmax, machine, job, re-scheduling, stochastic, setup-time, scheduling, order, make-span, task, flow-time, periodic, distributed	parallel machine	cycle	C++	Cplex			real-world	ant colony	166	816
TranVNB17a [610]	5	scheduling, task, transportation, machine, activity, setup-time, order, resource, multi-objective		alternative constraint, cumulative		Cplex	medical, robot		real-world		100	750
TranWDRFOVB16 [611]	9	job, order, single-machine scheduling, scheduling, task, precedence, stochastic, activity, job-shop, machine	single machine	cumulative, cycle	Python	OPL, Ilog Scheduler	robot, satellite		benchmark	deep learning, meta heuristic, neural network, simulated annealing	120	770
ValleMGT03 [615]	8	machine, order, scheduling, transportation, make-span, resource, job, precedence, task, job-shop				Ilog Solver	robot		real-life	edge-finder	284	934
VanczaM01 [620]	15	resource, machine, order, scheduling, precedence, task, Pareto, multi-objective		cycle, disjunctive, Disjunctive constraint			robot		real-world, real-life	genetic algorithm	298	948
VerfaillieL01 [621]	15	stochastic, task, job-shop, job, open-shop, order, scheduling	Open Shop Scheduling Problem	cycle		Cplex, OPL	earth observation, satellite			genetic algorithm, simulated annealing	299	949
Vilim02 [622]	1	resource, scheduling, precedence, sequence dependent setup, batch process, activity, setup-time		cumulative, disjunctive						edge-finding	295	945
Vilim03 [623]	1	job, open-shop, order, scheduling, job-shop		cumulative, disjunctive						edge-finding, not-last	285	935
Vilim04 [624]	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	276	926
Vilim05 [625]	14	preempt, task, job, open-shop, order, resource, make-span, scheduling, precedence, machine, completion-time, activity, preemptive, job-shop		cumulative, disjunctive	C++				benchmark	not-last	264	914

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
Vilim09 [626]	15	preempt, job, order, resource, scheduling, precedence, completion-time, activity, preemptive, job-shop		cumulative, cycle		CPO				energetic reasoning, edge-finding, not-first, not-last	214	864
Vilim09a [627]	15	preemptive, order, scheduling, completion-time, task, activity, resource, preempt		cycle, cumulative		Ilog Scheduler				edge-finding, not-last, energetic reasoning	215	865
Vilim11 [628]	16	preempt, task, order, resource, scheduling, precedence, machine, completion-time, activity, preemptive, manpower	psplib, RCPSP	cumulative, disjunctive, cycle					benchmark	energetic reasoning, edge-finding, sweep, not-last, time-tabling, large neighborhood search	192	842
VilimBC04 [629]	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	277	927
VilimLS15 [631]	17	machine, precedence, order, activity, earliness, periodic, scheduling, make-span, completion-time, task, cmax, job, job-shop, resource	psplib, RCPSP, Resource-constrained Project Scheduling Problem	disjunctive, noOverlap, cumulative		Cplex, CPO	rectangle-packing		benchmark	time-tabling, genetic algorithm, large neighborhood search, machine learning	137	787
Wallace06 [636]	32	earliness, Logic-Based Benders Decomposition, task, resource, machine, job, job-shop, transportation, scheduling, Benders Decomposition, order, tardiness, cyclic scheduling		cycle, Channeling constraint, circuit		Z3, CHIP, Cplex, ECLiPSe, OPL	hoist, workforce scheduling		benchmark, real-world, Roadef	Lagrangian relaxation, ant colony, column generation, genetic algorithm, meta heuristic, simulated annealing	247	897
WangB20 [638]	8	task, resource, scheduling, job, order, machine, distributed, unavailability	Fixed Job Scheduling, FJS	AllDiff constraint, alldifferent, MinWeightAllDiff, WeightAllDiff		Gurobi	aircraft		github	genetic algorithm	55	705
WangB23 [639]	8	task, resource, scheduling, job, order, transportation, unavailability	Fixed Job Scheduling, FJS	alldifferent, Channeling constraint, MinWeightAllDiff, WeightAllDiff		Gurobi	crew-scheduling, operating room, aircraft		random instance, real-world	genetic algorithm, lazy clause generation	15	665

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 [642]	15	job-shop, resource, machine, order, periodic, scheduling, make-span, completion-time, cmax, job		disjunctive	C++	Ilog Scheduler			real-world, benchmark	meta heuristic, simulated annealing	227	877
WessenCS20 [643]	10	make-span, completion-time, precedence, order, multi-agent, job, scheduling, task, job-shop		circuit		Gecode	robot		real-world		56	706
WinterMMW22 [645]	18	tardiness, setup-time, task, order, distributed, precedence, release-date, job, scheduling, completion-time, resource, machine, due-date, Pareto, bi-objective	PMSP, parallel machine	noOverlap, alternative constraint		CPO, Gurobi, Cplex	farming	manufacturing industry, agricultural industry	supplementary material, zenodo, industrial partner, benchmark, real-life, industry partner	MIQP, genetic algorithm, large neighborhood search, mat heuristic, meta heuristic, quadratic programming, simulated annealing	30	680
Wolf03 [646]	15	resource, job, machine, job-shop, task, order, preempt, scheduling, preemptive, completion-time, make-span, activity		cumulative, Disjunctive constraint, disjunctive	Java		pipeline		benchmark	not-last, edge-finding, not-first, sweep, genetic algorithm	286	936
Wolf05 [647]	15	resource, job, machine, job-shop, task, order, preempt, scheduling, preemptive, completion-time, precedence, make-span, activity		cumulative	Java	Ilog Scheduler			benchmark	not-last, edge-finding, not-first, sweep	265	915
Wolf09 [650]	17	resource, job, machine, job-shop, task, order, preempt, scheduling, preemptive		WeightedSum, Weighted-TaskSum	Java	CHIP, SICStus, OPL	operating room, patient, surgery		real-life	not-last, edge-finding, not-first, sweep	216	866
Wolf11 [648]	17	distributed, resource, inventory, machine, producer/consumer, task, order, preempt, scheduling, preemptive, 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			ant colony	193	843
WolfS05 [649]	14	order, completion-time, scheduling, distributed, preemptive, preempt, activity, task, resource		cumulative		CHIP			real-world	energetic reasoning, sweep, not-last	266	916
WolinskiKG04 [651]	8	resource, precedence, scheduling, machine, order, distributed	SCC	Diff2 constraint, cycle	Java		pipeline				279	929
WuBB05 [652]	1	stochastic, resource, job, release-date, scheduling, make-span				Ilog Scheduler			benchmark		267	917

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

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
YangSS19 [654]	10	resource, preempt, preemptive, order, scheduling, completion-time, machine, task, activity		cumulative, disjunctive	Prolog	Choco Solver, Gecode, CHIP, OR-Tools, SICStus, OPL	rectangle-packing, evacuation		generated instance	energetic reasoning, edge-finding, not-last, lazy clause generation	71	721
YoungFS17 [656]	10	preemptive, scheduling, make-span, task, resource, machine, precedence, order, activity, preempt	psplib, RCPSP, Resource-constrained Project Scheduling Problem	disjunctive, cumulative		Chuffed, MiniZinc			benchmark, github, instance generator	time-tabling, Lagrangian relaxation, column generation, lazy clause generation	101	751
YuraszeckMC23 [659]	6	job, open-shop, order, scheduling, due-date, make-span, precedence, preemptive, cmax, stochastic, distributed, preempt, job-shop, flow-time, release-date, machine	OSSP, JSSP	noOverlap					benchmark, github	ant colony, meta heuristic	16	666
ZhangBB22 [668]	9	preempt, scheduling, precedence, order, make-span, completion-time, task, distributed, one-machine scheduling, job-shop, resource, cmax, machine, job, lateness	single machine	disjunctive, span constraint, Disjunctive constraint, cycle	Python	OPL, Gurobi, CPO			benchmark, generated instance	large neighborhood search, meta heuristic, quadratic programming	31	681
ZhangJZL22 [667]	6	resource, scheduling, task, transportation, machine, make-span, job, precedence, stochastic, setup-time, due-date, single-machine scheduling, flow-shop, completion-time, order, tardiness, multi-objective	single machine, parallel machine, HFS	noOverlap, endBeforeStart, alternative constraint, cumulative			semiconductor		benchmark	genetic algorithm, machine learning, memetic algorithm, meta heuristic	32	682
ZhangLS12 [671]	4	scheduling, order, cmax								time-tabling, ant colony	179	829
Zhou96 [672]	15	release-date, job-shop, due-date, task, order, scheduling, completion-time, precedence, job, machine		Disjunctive constraint, disjunctive	Prolog	Z3				edge-finding	317	967
ZhouGL15 [674]	5	distributed, resource, tardiness, job-shop, flow-shop, re-scheduling, task, order, scheduling, stochastic, completion-time, machine, setup-time, job, online scheduling, make-span, transportation, cmax	HFF, FJS, HFS, parallel machine	cumulative		CHIP, Gecode, OR-Tools	railway		real-world	GRASP, NEH, genetic algorithm, meta heuristic, particle swarm	138	788
ZhuS02 [675]	5	activity, distributed, resource, scheduling					meeting scheduling				296	946

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

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
ZibranR11 [677]	4	scheduling, order, activity			Java	Cplex, OPL				genetic algorithm, meta heuristic, simulated annealing	194	844
ZibranR11a [678]	10	scheduling, distributed, activity, order, resource				Cplex, OPL				time-tabling, genetic algorithm, meta heuristic, simulated annealing	195	845

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	387
AalianPG23 AalianPG23 [1]	Optimization of Short-Term Underground Mine Planning Using Constraint Programming	CP Opt	real-world	1	n		n			?	2	330
Bit-Monnot23 Bit-Monnot23 [96]	Enhancing Hybrid CP-SAT Search for Disjunctive Scheduling	ARIES CP Opt OR-Tools Mistral	benchmark, real-world, github	1	y		y	-	JSSP OSSP	-	3	376
EfthymiouY23 EfthymiouY23 [195]	Predicting the Optimal Period for Cyclic Hoist Scheduling Problems	OR-Tools	generated instance, benchmark, random instance, real-life, industrial instance	3	n		n	-	CHSP	-	4	421
JuvinHHL23 JuvinHHL23 [332]	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	483
JuvinHL23 JuvinHL23 [334]	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 sameSequence	6	484
KameugneFND23 KameugneFND23 [340]	Horizontally Elastic Edge Finder Rule for Cumulative Constraint Based on Slack and Density	?	benchmark	5	BL PSPlib		n	-	RCPSPs	cumulative	7	487
KimCMLLP23 KimCMLLP23 [349]	Iterated Greedy Constraint Programming for Scheduling Steelmaking Continuous Casting	Gurobi OR-Tools	real-world, zenodo, benchmark	0	y		n	-	SCC	alternative noOverlap	8	492
Mehdizadeh-Somarin23 Mehdizadeh-Somarin23 [435]	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	536
PerezGSL23 PerezGSL23 [504]	A Constraint Programming Model for Scheduling the Unloading of Trains in Ports	custom	real-world, generated instance	0	n		n	-	SUTP	table disjunctive	10	560
PovedaAA23 PovedaAA23 [514]	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	564
SquillaciPR23 SquillaciPR23 [574]	Scheduling Complex Observation Requests for a Constellation of Satellites: Large Neighborhood Search Approaches	Cplex Studio	github, benchmark	2	y		n	-	EOSP	?	12	593
TardivoDFMP23 TardivoDFMP23 [585]	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	599
TasselGS23 TasselGS23 [586]	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	600
WangB23 WangB23 [639]	Dynamic All-Different and Maximal Cliques Constraints for Fixed Job Scheduling	FaCiLe	random instance, real-world	0	(y)		n	[638]	FJS	-	15	629
YuraszeckMC23 YuraszeckMC23 [659]	A competitive constraint programming approach for the group shop scheduling problem	CP Opt	benchmark, github	0	ref		n	-	GSSP	noOverlap endBeforeStart	16	642

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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	342
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	389
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	442
HebrardALLCMR22 HebrardALLCMR22 [289]	An Efficient Approach to Data Transfer Scheduling for Long Range Space Exploration			0							20	463
JungblutK22 JungblutK22 [331]	Optimal Schedules for High-Level Programming Environments on FPGAs with Constraint Programming	MiniZinc	benchmark, github, real-world	0	y		y	-			21	482
LiFJZLL22 LiFJZLL22 [391]	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	513
LuoB22 LuoB22 [420]	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	528
OuelletQ22 OuelletQ22 [493]	A MinCumulative Resource Constraint	Choco	github, benchmark, random instance	1	y		y	-		cumulative minCumulative	24	556
OujanaAYB22 OujanaAYB22 [494]	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	-	HFFS	alternative span noOverlap endBeforeStart	25	557
PopovicCGNC22 PopovicCGNC22 [512]	Scheduling the Equipment Maintenance of an Electric Power Transmission Network Using Constraint Programming	CP Opt		0	n		n	-	TMS	alwaysIn noOverlap	26	563
SvancaraB22 SvancaraB22 [579]	Tackling Train Routing via Multi-agent Pathfinding and Constraint-based Scheduling		benchmark, real-world	0							27	595
Teppan22 Teppan22 [589]	Types of Flexible Job Shop Scheduling: A Constraint Programming Experiment	OPL	benchmark, real-life	0	ref		n	-	FJSSP	noOverlap alternative endBeforeStart	28	601
TouatBT22 TouatBT22 [602]	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	608
WinterMMW22 WinterMMW22 [645]	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	632

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 [668]	Solving Job-Shop Scheduling Problems with QUBO-Based Specialized Hardware		benchmark, generated instance	0							31	643
ZhangJZL22 ZhangJZL22 [667]	Constraint Programming for Modeling and Solving a Hybrid Flow Shop Scheduling Problem	OP Opt	benchmark	0	ref		n	-	HFSP	alternative endBeforeStart noOverlap cumulative	32	644
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	339
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	341
ArtiguesHQT21 ArtiguesHQT21 [32]	Multi-Mode RCPSP with Safety Margin Maximization: Models and Algorithms			4							35	345
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	347
BenderWS21 BenderWS21 [84]	Applying Constraint Programming to the Multi-mode Scheduling Problem in Harvest Logistics	CP Opt		9	y		n	-	MRCPSP	noOverlap alternative	37	369
GeibingerKKMMW21 GeibingerKKMMW21 [236]	Physician Scheduling During a Pandemic	MiniZinc	real-world	3	y		n	-		nvalue	38	439
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	441
HanenKP21 HanenKP21 [281]	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	461
HillTV21 HillTV21 [306]	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	472
KlankeBYE21 KlankeBYE21 [350]	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	493
KovacsTKSG21 KovacsTKSG21 [365]	Utilizing Constraint Optimization for Industrial Machine Workload Balancing	Gurobi OR-Tools Cplex CP Opt	github, supplementary material, real-world, benchmark	2	y		y	-	extended RCPSP	cumulative	43	499
LacknerMMWW21 LacknerMMWW21 [377]	Minimizing Cumulative Batch Processing Time for an Industrial Oven Scheduling Problem	CP Opt Chuffed OR-Tools Gurobi OPL	benchmark, instance generator, real-life, random instance, industrial partner, supplementary material	3	y		y		OSP		44	508

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	338
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	359
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	47	448
GokGSTO20 GokGSTO20 [251]	Robust Resource Planning for Aircraft Ground Operations		real-world, Roadef	3							48	449
GroleazNS20 GroleazNS20 [266]	Solving the Group Cumulative Scheduling Problem with CPO and ACO	CP Opt ACO	industrial instance, benchmark	0	-		-	[266]	GCSP	groupCumulative	49	456
GroleazNS20a GroleazNS20a [265]	ACO with automatic parameter selection for a scheduling problem with a group cumulative constraint	CPO ACO	industrial partner, benchmark	0	y		n	-	GCSP	groupCumulative	50	457
Mercier-AubinGQ20 Mercier-AubinGQ20 [442]	Leveraging Constraint Scheduling: A Case Study to the Textile Industry	MiniZinc Chuffed	industrial instance, industrial partner	1	a		a	-		circuit cumulative	51	538
NattafM20 NattafM20 [472]	Filtering Rules for Flow Time Minimization in a Parallel Machine Scheduling Problem	Cplex CP Opt	benchmark, industrial instance	7	-		-	[427]	PTC	alternative noOverlap	52	549
TangB20 TangB20 [583]	CP and Hybrid Models for Two-Stage Batching and Scheduling	Cplex CP Opt	real-world	0	n		n	-	2BPHFSP	span alwaysIn	53	598
ThomasKS20 ThomasKS20 [596]	Insertion Sequence Variables for Hybrid Routing and Scheduling Problems		CSPlib, benchmark, generated instance, bitbucket	3							54	605
WangB20 WangB20 [638]	Global Propagation of Transition Cost for Fixed Job Scheduling	FaCiLe	github	0	y		n	-	FJS	-	55	628
WessenCS20 WessenCS20 [643]	Scheduling of Dual-Arm Multi-tool Assembly Robots and Workspace Layout Optimization	Gecode	real-world	10	n		n	-		circuit alldifferent	56	631
BadicaBIL19 BadicaBIL19 [40]	Exploring the Space of Block Structured Scheduling Processes Using Constraint Logic Programming	ECLiPSe	github	0	dead		dead	-			57	349
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		58	365
BogaerdtW19 BogaerdtW19 [617]	Lower Bounds for Uniform Machine Scheduling Using Decision Diagrams	custom Cplex CPO	benchmark	4	n		n	-	Multi Machine Scheduling	noOverlap	59	380
ColT19 ColT19 [157]	Industrial Size Job Shop Scheduling Tackled by Present Day CP Solvers	CP Opt OR-Tools	github, benchmark, real-world	2	y		y	-	JSSP	noOverlap	60	407
FrimodigS19 FrimodigS19 [223]	Models for Radiation Therapy Patient Scheduling	Mini-Zinc Gecode Cplex	benchmark, real-world	1	n		n	-		cumulative regular bin-packing	61	430

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
FrohnerTR19 FrohnerTR19 [225]	Casual Employee Scheduling with Constraint Programming and Metaheuristics		benchmark, real-world	0							62	431
GalleguillosKSB19 GalleguillosKSB19 [227]	Constraint Programming-Based Job Dispatching for Modern HPC Applications	OR-Tools		5			y		on-line dispatch		63	433
GeibingerMM19 GeibingerMM19 [238]	Investigating Constraint Programming for Real World Industrial Test Laboratory Scheduling		real-world, benchmark, real-life, generated instance, industrial partner	3							64	440
KucukY19 KucukY19 [372]	A Constraint Programming Approach for Agile Earth Observation Satellite Scheduling Problem		benchmark, generated instance	0							65	504
LiuLH19 LiuLH19 [399]	Solving the Talent Scheduling Problem by Parallel Constraint Programming		benchmark, CSPlib	0							66	521
MalapertN19 MalapertN19 [427]	A New CP-Approach for a Parallel Machine Scheduling Problem with Time Constraints on Machine Qualifications		benchmark, generated instance, industrial instance, Roadef	3							67	534
MurinR19 MurinR19 [457]	Scheduling of Mobile Robots Using Constraint Programming	CP Opt Cplex OPL	github, benchmark, real-life	3	y		y		JSPT	endBeforeStart alternative noOverlap	68	545
ParkUJR19 ParkUJR19 [501]	Developing a Production Scheduling System for Modular Factory Using Constraint Programming		real-world	0							69	558
Tom19 Tom19 [599]	Fuzzy Multi-Constraint Programming Model for Weekly Meals Scheduling		real-world	0							70	607
YangSS19 YangSS19 [654]	Time Table Edge Finding with Energy Variables		generated instance	1							71	640
AntunesABD18 AntunesABD18 [19]	Assigning and Scheduling Service Visits in a Mixed Urban/Rural Setting		real-world, industry partner, industrial partner	0							72	337
ArbaouiY18 ArbaouiY18 [24]	Solving the Unrelated Parallel Machine Scheduling Problem with Additional Resources Using Constraint Programming		benchmark	0							73	340
AstrandJZ18 AstrandJZ18 [37]	Fleet Scheduling in Underground Mines Using Constraint Programming			0							74	348
BenediktSMVH18 BenediktSMVH18 [87]	Energy-Aware Production Scheduling with Power-Saving Modes	CPO Gurobi	github, random instance, generated instance	1	y		y	-	Energy Aware Production Scheduling		75	370
CappartTSR18 CappartTSR18 [131]	A Constraint Programming Approach for Solving Patient Transportation Problems		bitbucket, real-life, CSPlib	1							76	394
DemirovicS18 DemirovicS18 [178]	Constraint Programming for High School Timetabling: A Scheduling-Based Model with Hot Starts		benchmark, real-world	5							77	414
He0GLW18 He0GLW18 [288]	A Fast and Scalable Algorithm for Scheduling Large Numbers of Devices Under Real-Time Pricing	Gurobi Python	real-world, bitbucket	8	y		y	-	FSDN-DS DSP-MH-RTP		78	462
HoYCLLCLC18 HoYCLLCLC18 [307]	A Platform for Dynamic Optimal Nurse Scheduling Based on Integer Linear Programming along with Multiple Criteria Constraints		real-world	0							79	473

Key	Title (Local Copy)	CP System	Bench	Links	Data Avail	Sol Avail	Code Avail	Related To	Classification	Constraints	a	b
KameugneFGOQ18 KameugneF-GOQ18 [339]	Horizontally Elastic Not-First/Not-Last Filtering Algorithm for Cumulative Resource Constraint		real-world, benchmark	0							80	486
Laborie18a Laborie18a [375]	An Update on the Comparison of MIP, CP and Hybrid Approaches for Mixed Resource Allocation and Scheduling		real-world, real-life, benchmark	0							81	507
MusliuSS18 MusliuSS18 [460]	Solver Independent Rotating Workforce Scheduling		generated instance, bench-mark, real-life	2							82	548
NishikawaSTT18 NishikawaSTT18 [475]	Scheduling of Malleable Fork-Join Tasks with Constraint Programming		real-world, benchmark	0							83	550
NishikawaSTT18a NishikawaSTT18a [476]	Scheduling of Malleable Tasks Based on Constraint Programming		benchmark, real-life, real-world	0							84	551
OuelletQ18 OuelletQ18 [492]	A O(n \log ˆ2 n) Checker and O(nˆ2 \log n) Filtering Algorithm for the Energetic Reasoning		benchmark, Roadef	0							85	555
RiahiNS018 RiahiNS018 [525]	Local Search for Flowshops with Setup Times and Blocking Constraints		real-world, real-life, benchmark	0							86	571
TanT18 TanT18 [582]	Logic-Based Benders Decomposition for Two-Stage Flexible Flow Shop Scheduling with Unrelated Parallel Machines		benchmark	0							87	597
Tesch18 Tesch18 [593]	Improving Energetic Propagations for Cumulative Scheduling		Roadef	0							88	603
BofillCSV17 BofillCSV17 [103]	An Efficient SMT Approach to Solve MRCPSP/max Instances with Tight Constraints on Resources		benchmark	2							89	377
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		90	393
CohenHB17 CohenHB17 [155]	(I Can Get) Satisfaction: Preference-Based Scheduling for Concert-Goers at Multi-venue Music Festivals			12							91	406
GelainPRVW17 GelainPRVW17 [241]	A Local Search Approach for Incomplete Soft Constraint Problems: Experimental Results on Meeting Scheduling Problems		real-life, CSPlib, bench-mark	2							92	443
GoldwaserS17 GoldwaserS17 [253]	Optimal Torpedo Scheduling	Chuffed Gurobi	github, gener-ated instance, instance genera-tor	4	y		n	-	Torpedo Scheduling		93	450
Hooker17 Hooker17 [315]	Job Sequencing Bounds from Decision Diagrams		benchmark, ran-dom instance	0							94	477
KletzanderM17 KletzanderM17 [351]	A Multi-stage Simulated Annealing Algorithm for the Torpedo Scheduling Problem			2							95	494
LiuCGM17 LiuCGM17 [400]	NightSplitter: A Scheduling Tool to Optimize (Sub)group Activities	Chuffed OR-Tools HCSP SA	github	11	n			-	NightSplit		96	519
Madi-WambaLOBM17 Madi-WambaLOBM17 [422]	Green Energy Aware Scheduling Problem in Virtualized Datacenters		real-world	0							97	531

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Key	Title (Local Copy)	CP System	Bench	Links	Data Avail	Sol Avail	Code Avail	Related To	Classification	Constraints	a	b
MossigeGSMC17 MossigeGSMC17 [453]	Time-Aware Test Case Execution Scheduling for Cyber-Physical Systems		real-world, benchmark, random instance, CSPlib, generated instance, industrial partner	4							98	542
Pralet17 Pralet17 [515]	An Incomplete Constraint-Based System for Scheduling with Renewable Resources		benchmark	1							99	565
TranVNB17a TranVNB17a [610]	Robots in Retirement Homes: Applying Off-the-Shelf Planning and Scheduling to a Team of Assistive Robots (Extended Abstract)		real-world	0							100	613
YoungFS17 YoungFS17 [656]	Constraint Programming Applied to the Multi-Skill Project Scheduling Problem		benchmark, github, instance generator	6							101	641
AmadiniGM16 AmadiniGM16 [17]	Parallelizing Constraint Solvers for Hard RCPSP Instances		benchmark, real-life, github	3							102	335
BonfiettiZLM16 BonfiettiZLM16 [113]	The Multirate Resource Constraint		generated instance, github, industrial instance, benchmark, real-world	1							103	386
BoothNB16 BoothNB16 [115]	A Constraint Programming Approach to Multi-Robot Task Allocation and Scheduling in Retirement Homes		real-world	0							104	388
BridiLBBM16 BridiLBBM16 [122]	DARDIS: Distributed And Randomized DIspatching and Scheduling			0							105	390
CatusseCBL16 CatusseCBL16 [140]	A Branch-and-Price Algorithm for Scheduling Observations on a Telescope			0							106	397
CauwelaertDMS16 CauwelaertDMS16 [141]	Efficient Filtering for the Unary Resource with Family-Based Transition Times		real-life, bitbucket, benchmark	2							107	398
FontaineMH16 FontaineMH16 [217]	Parallel Composition of Scheduling Solvers		benchmark	2							108	427
GilesH16 GilesH16 [245]	Solving a Supply-Delivery Scheduling Problem with Constraint Programming			0							109	445
GingrasQ16 GingrasQ16 [246]	Generalizing the Edge-Finder Rule for the Cumulative Constraint		benchmark	0							110	446
HechingH16 HechingH16 [292]	Scheduling Home Hospice Care with Logic-Based Benders Decomposition		real-world	0							111	465
JelinekB16 JelinekB16 [329]	Using Constraint Logic Programming to Schedule Solar Array Operations on the International Space Station		real-life	2							112	481
LimHTB16 LimHTB16 [394]	Online HVAC-Aware Occupancy Scheduling with Adaptive Temperature Control		real-world	4							113	515
LuoVLBM16 LuoVLBM16 [419]	Using Metric Temporal Logic to Specify Scheduling Problems			0							114	529
Madi-WambaB16 Madi-WambaB16 [421]	The TaskIntersection Constraint		real-world, benchmark, random instance, generated instance	3							115	530
SchuttS16 SchuttS16 [553]	Explaining Producer/Consumer Constraints		benchmark	1							116	582

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
SzerediS16 SzerediS16 [580]	Modelling and Solving Multi-mode Resource-Constrained Project Scheduling		benchmark	2							117	596
Tesch16 Tesch16 [592]	A Nearly Exact Propagation Algorithm for Energetic Reasoning in \mathcal O(n^2 \log n)		Roadef	1							118	602
TranDRFWOVB16 TranDRFWOVB16 [606]	A Hybrid Quantum-Classical Approach to Solving Scheduling Problems			0							119	611
TranWDRFOVB16 TranWDRFOVB16 [611]	Explorations of Quantum-Classical Approaches to Scheduling a Mars Lander Activity Problem		benchmark	0							120	614
BartakV15 BartakV15 [59]	Reactive Recovery from Machine Breakdown in Production Scheduling with Temporal Distance and Resource Constraints		real-world, real-life	0							121	357
BofillGSV15 BofillGSV15 [105]	MaxSAT-Based Scheduling of B2B Meetings		industrial instance	3							122	379
BurtLPS15 BurtLPS15 [125]	Scheduling with Fixed Maintenance, Shared Resources and Nonlinear Feedrate Constraints: A Mine Planning Case Study		industry partner, real-world, benchmark	5							123	392
DejemeppeCS15 DejemeppeCS15 [174]	The Unary Resource with Transition Times		bitbucket, real-world, generated instance, benchmark	4							124	412
EvenSH15 EvenSH15 [204]	A Constraint Programming Approach for Non-preemptive Evacuation Scheduling		real-life, real-world	0							125	425
GayHLS15 GayHLS15 [231]	Conflict Ordering Search for Scheduling Problems		bitbucket, benchmark	0							126	435
GayHS15 GayHS15 [232]	Simple and Scalable Time-Table Filtering for the Cumulative Constraint		bitbucket	2							127	436
GayHS15a GayHS15a [233]	Time-Table Disjunctive Reasoning for the Cumulative Constraint		benchmark, real-world, bitbucket	0							128	437
KreterSS15 KreterSS15 [366]	Modeling and Solving Project Scheduling with Calendars		benchmark	3							129	502
LimBTBB15 LimBTBB15 [395]	Large Neighborhood Search for Energy Aware Meeting Scheduling in Smart Buildings		benchmark	3							130	514
LombardiBM15 LombardiBM15 [403]	Deterministic Estimation of the Expected Makespan of a POS Under Duration Uncertainty		benchmark, real-world	0							131	522
MelgarejoLS15 MelgarejoLS15 [11]	A Time-Dependent No-Overlap Constraint: Application to Urban Delivery Problems		real-world, benchmark	1							132	537
MurphyMB15 MurphyMB15 [458]	Design and Evaluation of a Constraint-Based Energy Saving and Scheduling Recommender System		real-world	3							133	546
PesantRR15 PesantRR15 [506]	A Comparative Study of MIP and CP Formulations for the B2B Scheduling Optimization Problem			1							134	561
PraletLJ15 PraletLJ15 [516]	Scheduling Running Modes of Satellite Instruments Using Constraint-Based Local Search			0							135	566
SialaAH15 SialaAH15 [563]	Two Clause Learning Approaches for Disjunctive Scheduling		github, benchmark	5							136	586
VilimLS15 VilimLS15 [631]	Failure-Directed Search for Constraint-Based Scheduling		benchmark	8							137	626
ZhouGL15 ZhouGL15 [674]	On complex hybrid flexible flowshop scheduling problems based on constraint programming		real-world	0							138	647
AlesioNBG14 AlesioNBG14 [182]	Worst-Case Scheduling of Software Tasks - A Constraint Optimization Model to Support Performance Testing		benchmark	2							139	334

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Key	Title (Local Copy)	CP System	Bench	Links	Data Avail	Sol Avail	Code Avail	Related To	Classification	Constraints	a	b
BartoliniBBLM14 BartoliniBBLM14 [60]	Proactive Workload Dispatching on the EURORA Supercomputer			4							140	358
BessiereHMQW14 BessiereHMQW14 [93]	Buffered Resource Constraint: Algorithms and Complexity		benchmark, real-life	0							141	374
BofillEGPSV14 BofillEGPSV14 [104]	Scheduling B2B Meetings		industrial instance	6							142	378
BonfiettiLM14 BonfiettiLM14 [111]	Disregarding Duration Uncertainty in Partial Order Schedules? Yes, We Can!		benchmark, real-world	2							143	384
DejemeppeD14 DejemeppeD14 [175]	Continuously Degrading Resource and Interval Dependent Activity Durations in Nuclear Medicine Patient Scheduling		bitbucket	0							144	413
DerrienP14 DerrienP14 [180]	A New Characterization of Relevant Intervals for Energetic Reasoning		random instance	0							145	415
DerrienPZ14 DerrienPZ14 [181]	A Declarative Paradigm for Robust Cumulative Scheduling		real-world, benchmark, random instance	0							146	416
DoulabiRP14 DoulabiRP14 [190]	A Constraint Programming-Based Column Generation Approach for Operating Room Planning and Scheduling			0							147	419
FriedrichFMRSST14 FriedrichFMRSST14 [222]	Representing Production Scheduling with Constraint Answer Set Programming			0							148	No
GaySS14 GaySS14 [234]	Continuous Casting Scheduling with Constraint Programming		real-life, CSPlib	0							149	438
HoundjiSWD14 HoundjiSWD14 [321]	The StockingCost Constraint		bitbucket, generated instance	0							150	479
KoschB14 KoschB14 [357]	A New MIP Model for Parallel-Batch Scheduling with Non-identical Job Sizes		benchmark	0							151	496
LipovetzkyBPS14 LipovetzkyBPS14 [398]	Planning for Mining Operations with Time and Resource Constraints		real-life, real-world, industrial partner, industry partner, benchmark, generated instance	0							152	518
LouieVNB14 LouieVNB14 [416]	An autonomous assistive robot for planning, scheduling and facilitating multi-user activities			0							153	527
BonfiettiLM13 BonfiettiLM13 [110]	De-Cycling Cyclic Scheduling Problems			0							154	383
ChuGNSW13 ChuGNSW13 [148]	On the Complexity of Global Scheduling Constraints under Structural Restrictions			0							155	401
CireCH13 CireCH13 [150]	Mixed Integer Programming vs. Logic-Based Benders Decomposition for Planning and Scheduling	CP Opt Cplex		1	dead		n	-			156	403
GuSS13 GuSS13 [268]	A Lagrangian Relaxation Based Forward-Backward Improvement Heuristic for Maximising the Net Present Value of Resource-Constrained Projects	Chuffed	benchmark	1	dead			-	RCPSPDC	cumulative maxNVPProp	157	459
HeinzKB13 HeinzKB13 [295]	Recent Improvements Using Constraint Integer Programming for Resource Allocation and Scheduling			0							158	467
KelarevaTK13 KelarevaTK13 [344]	CP Methods for Scheduling and Routing with Time-Dependent Task Costs	MiniZinc CPX G12FD	real-world	5	ref		-	-	LSFRP BPCTOP	alldifferent alldifferentExcept0	159	489

Key	Title (Local Copy)	CP System	Bench	Links	Data Avail	Sol Avail	Code Avail	Related To	Classification	Constraints	a	b
LetortCB13 LetortCB13 [388]	A Synchronized Sweep Algorithm for the *k-dimensional cumulative* Constraint	SICStus Choco	Roadef, benchmark, random instance	2	PSPlib		-	-	RCPSP	cumulative kDimensionalCum	160	512
LombardiM13 LombardiM13 [410]	A Min-Flow Algorithm for Minimal Critical Set Detection in Resource Constrained Project Scheduling			0							161	526
MalapertCGJLR13 MalapertCGJLR13 [426]	An Optimal Constraint Programming Approach to the Open-Shop Problem		benchmark, real-life	0							162	533
OuelletQ13 OuelletQ13 [491]	Time-Table Extended-Edge-Finding for the Cumulative Constraint		benchmark	1							163	554
SchuttFS13 SchuttFS13 [547]	Scheduling Optional Tasks with Explanation		benchmark	1							164	579
SchuttFS13a SchuttFS13a [546]	Explaining Time-Table-Edge-Finding Propagation for the Cumulative Resource Constraint	Mercury G12	benchmark	5	PSPlib AT BL Pack KSD15D PackD		-	-	RCPSP	cumulative	165	580
TranTDB13 TranTDB13 [608]	Hybrid Queueing Theory and Scheduling Models for Dynamic Environments with Sequence-Dependent Setup Times		real-world	0							166	612
BillautHL12 BillautHL12 [95]	Complete Characterization of Near-Optimal Sequences for the Two-Machine Flow Shop Scheduling Problem		random instance	0							167	375
BonfiettiLBM12 BonfiettiLBM12 [108]	Global Cyclic Cumulative Constraint		benchmark	3							168	382
BonfiettiM12 BonfiettiM12 [112]	A Constraint-based Approach to Cyclic Resource-Constrained Scheduling Problem		industrial instance	0							169	385
GuSW12 GuSW12 [270]	Maximising the Net Present Value of Large Resource-Constrained Projects		benchmark	2							170	460
HeinzB12 HeinzB12 [294]	Reconsidering Mixed Integer Programming and MIP-Based Hybrids for Scheduling			0							171	466
IfrimOS12 IfrimOS12 [324]	Properties of Energy-Price Forecasts for Scheduling		real-life	1							172	480
LetortBC12 LetortBC12 [387]	A Scalable Sweep Algorithm for the cumulative Constraint		Roadef, benchmark, random instance	2							173	511
RendlPHPR12 RendlPHPR12 [524]	Hybrid Heuristics for Multimodal Homecare Scheduling		real-world, CSPlib, benchmark	2							174	570
SchuttCSW12 SchuttCSW12 [545]	Maximising the Net Present Value for Resource-Constrained Project Scheduling		benchmark	1							175	578
SerraNM12 SerraNM12 [556]	The Offshore Resources Scheduling Problem: Detailing a Constraint Programming Approach		real-world, benchmark	4							176	585
SimoninAHL12 SimoninAHL12 [564]	Scheduling Scientific Experiments on the Rosetta/Philae Mission	MOST Ilog Scheduler		0	n		n	-		cumulative dataTransfer	177	587
TranB12 TranB12 [605]	Logic-based Benders Decomposition for Alternative Resource Scheduling with Sequence Dependent Setups		benchmark	0							178	610
ZhangLS12 ZhangLS12 [671]	Model and Solution for Hot Strip Rolling Scheduling Problem Based on Constraint Programming Method			0							179	645
BajestaniB11 BajestaniB11 [41]	Scheduling an Aircraft Repair Shop			0							180	350

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Key	Title (Local Copy)	CP System	Bench	Links	Data Avail	Sol Avail	Code Avail	Related To	Classification	Constraints	a	b
BonfiettiLBM11 BonfiettiLBM11 [107]	A Constraint Based Approach to Cyclic RCPSP		benchmark, generated instance, industrial instance	3							181	381
ChapadosJR11 ChapadosJR11 [146]	Retail Store Workforce Scheduling by Expected Operating Income Maximization			0							182	400
ClercqPBJ11 ClercqPBJ11 [152]	Filtering Algorithms for Discrete Cumulative Problems with Overloads of Resource		benchmark	1							183	404
EdisO11 EdisO11 [192]	Parallel Machine Scheduling with Additional Resources: A Lagrangian-Based Constraint Programming Approach			0							184	420
GrimesH11 GrimesH11 [260]	Models and Strategies for Variants of the Job Shop Scheduling Problem		benchmark	1							185	454
HeinzS11 HeinzS11 [297]	Explanations for the Cumulative Constraint: An Experimental Study		benchmark	1							186	468
HermenierDL11 HermenierDL11 [304]	Bin Repacking Scheduling in Virtualized Datacenters			1							187	471
KameugneFSN11 KameugneFSN11 [341]	A Quadratic Edge-Finding Filtering Algorithm for Cumulative Resource Constraints		benchmark	1							188	488
LahimerLH11 LahimerLH11 [379]	Climbing Depth-Bounded Adjacent Discrepancy Search for Solving Hybrid Flow Shop Scheduling Problems with Multiprocessor Tasks		benchmark	2							189	509
LombardiBMB11 LombardiBMB11 [404]	Precedence Constraint Posting for Cyclic Scheduling Problems		benchmark, industrial instance, real-life	0							190	523
SimonisH11 SimonisH11 [572]	A Resource Cost Aware Cumulative		real-life, real-world	1							191	592
Vilim11 Vilim11 [628]	Timetable Edge Finding Filtering Algorithm for Discrete Cumulative Resources		benchmark	1							192	624
Wolf11 Wolf11 [648]	Constraint-Based Modeling and Scheduling of Clinical Pathways			4							193	636
ZibranR11 ZibranR11 [677]	Conflict-Aware Optimal Scheduling of Code Clone Refactoring: A Constraint Programming Approach			0							194	649
ZibranR11a ZibranR11a [678]	A Constraint Programming Approach to Conflict-Aware Optimal Scheduling of Prioritized Code Clone Refactoring			0							195	650
BertholdHLMS10 BertholdHLMS10 [92]	A Constraint Integer Programming Approach for Resource-Constrained Project Scheduling			1							196	373
CobanH10 CobanH10 [153]	Single-Facility Scheduling over Long Time Horizons by Logic-Based Benders Decomposition			0							197	405
Davenport10 Davenport10 [165]	Integrated Maintenance Scheduling for Semiconductor Manufacturing			0							198	410
GrimesH10 GrimesH10 [259]	Job Shop Scheduling with Setup Times and Maximal Time-Lags: A Simple Constraint Programming Approach		benchmark	1							199	453
LombardiM10 LombardiM10 [407]	Constraint Based Scheduling to Deal with Uncertain Durations and Self-Timed Execution		real-world, benchmark	1							200	525
MakMS10 MakMS10 [423]	A constraint programming approach for production scheduling of multi-period virtual cellular manufacturing systems			0							201	532
SchuttW10 SchuttW10 [554]	A New $O(n^2 \log n)$ Not-First/Not-Last Pruning Algorithm for Cumulative Resource Constraints		benchmark	1							202	583
SunLYL10 SunLYL10 [577]	Scheduling Optimization Techniques for FlexRay Using Constraint-Programming			0							203	594

Key	Title (Local Copy)	CP System	Bench	Links	Data Avail	Sol Avail	Code Avail	Related To	Classification	Constraints	a	b
Acuna-AgostMFG09 Acuna-AgostMFG09 [5]	Constraint Programming and Mixed Integer Linear Programming for Rescheduling Trains under Disrupted Operations		Roadef	1							204	332
AronssonBK09 AronssonBK09 [29]	MILP formulations of cumulative constraints for railway scheduling - A comparative study		real-world, real-life	0							205	343
Baptiste09 Baptiste09 [45]	Constraint-Based Schedulers, Do They Really Work?			0							206	351
GrimesHM09 GrimesHM09 [262]	Closing the Open Shop: Contradicting Conventional Wisdom		benchmark	0							207	455
Laborie09 Laborie09 [374]	IBM ILOG CP Optimizer for Detailed Scheduling Illustrated on Three Problems		real-world, benchmark	2							208	506
LombardiM09 LombardiM09 [405]	A Precedence Constraint Posting Approach for the RCPSP with Time Lags and Variable Durations		instance generator, real-world	1							209	524
MonetteDH09 MonetteDH09 [450]	Just-In-Time Scheduling with Constraint Programming		benchmark	0							210	541
RodriguezS09 RodriguezS09 [530]	A study of an incremental texture-based heuristic for the train routing and scheduling problem			0							211	574
SchuttFSW09 SchuttFSW09 [548]	Why Cumulative Decomposition Is Not as Bad as It Sounds		real-world, benchmark	1							212	581
ThiruvadyBME09 ThiruvadyBME09 [594]	Hybridizing Beam-ACO with Constraint Programming for Single Machine Job Scheduling			0							213	604
Vilim09 Vilim09 [626]	Edge Finding Filtering Algorithm for Discrete Cumulative Resources in $O(kn \log n)\{\mathcal{O}\}(kn \{\rm log\} n)$			0							214	622
Vilim09a Vilim09a [627]	Max Energy Filtering Algorithm for Discrete Cumulative Resources			1							215	623
Wolf09 Wolf09 [650]	Linear Weighted-Task-Sum – Scheduling Prioritized Tasks on a Single Resource		real-life	1							216	635
BarlattCG08 BarlattCG08 [52]	A Hybrid Approach for Solving Shift-Selection and Task-Sequencing Problems		real-world	1							217	354
BeldiceanuCP08 BeldiceanuCP08 [81]	New Filtering for the cumulative Constraint in the Context of Non-Overlapping Rectangles		benchmark	0							218	367
BeniniLMR08 BeniniLMR08 [89]	A Constraint Programming Approach for Allocation and Scheduling on the CELL Broadband Engine		benchmark	1							219	372
DoomsH08 DoomsH08 [187]	Gap Reduction Techniques for Online Stochastic Project Scheduling			0							220	418
HentenryckM08 HentenryckM08 [303]	The Steel Mill Slab Design Problem Revisited	CSPlib		0							221	470
LauLN08 LauLN08 [382]	A Combinatorial Auction Framework for Solving Decentralized Scheduling Problems (Extended Abstract)		real-world, benchmark	0							222	510
MouraSCL08 MouraSCL08 [455]	Planning and Scheduling the Operation of a Very Large Oil Pipeline Network			0							223	543
MouraSCL08a MouraSCL08a [454]	Heuristics and Constraint Programming Hybridizations for a Real Pipeline Planning and Scheduling Problem		real-world, benchmark	0							224	544
PoderB08 PoderB08 [508]	Filtering for a Continuous Multi-Resources cumulative Constraint with Resource Consumption and Production			0							225	562
SchausD08 SchausD08 [540]	A Global Constraint for Bin-Packing with Precedences: Application to the Assembly Line Balancing Problem		real-life, benchmark	0							226	577

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Key	Title (Local Copy)	CP System	Bench	Links	Data Avail	Sol Avail	Code Avail	Related To	Classification	Constraints	a	b
WatsonB08 WatsonB08 [642]	A Hybrid Constraint Programming / Local Search Approach to the Job-Shop Scheduling Problem		real-world, benchmark	1							227	630
AkkerDH07 AkkerDH07 [616]	A Column Generation Based Destructive Lower Bound for Resource Constrained Project Scheduling Problems			0							228	333
BeldiceanuP07 BeldiceanuP07 [82]	A Continuous Multi-resources *cumulative* Constraint with Positive-Negative Resource Consumption-Production			0							229	368
DavenportKRSH07 DavenportKRSH07 [166]	An Application of Constraint Programming to Generating Detailed Operations Schedules for Steel Manufacturing			0							230	411
GarganiR07 GarganiR07 [228]	An Efficient Model and Strategy for the Steel Mill Slab Design Problem		real-life, CSPlib	0							231	434
HoeveGSL07 HoeveGSL07 [619]	Optimal Multi-Agent Scheduling with Constraint Programming		benchmark	0							232	474
KeriK07 KeriK07 [346]	Computing Tight Time Windows for RCPSPWET with the Primal-Dual Method			2							233	490
KovacsB07 KovacsB07 [358]	A Global Constraint for Total Weighted Completion Time		benchmark	0							234	497
KrogtLPHJ07 KrogtLPHJ07 [618]	Scheduling for Cellular Manufacturing		real-world	0							235	503
Limtanyakul07 Limtanyakul07 [396]	Scheduling of Tests on Vehicle Prototypes Using Constraint and Integer Programming		real-life	0							236	517
MonetteDD07 MonetteDD07 [449]	A Position-Based Propagator for the Open-Shop Problem		benchmark	0							237	540
Rodriguez07b Rodriguez07b [528]	A study of the use of state resources in a constraint-based model for routing and scheduling trains			0							238	573
RossiTHP07 RossiTHP07 [534]	Replenishment Planning for Stochastic Inventory Systems with Shortage Cost			0							239	575
Beck06 Beck06 [63]	An Empirical Study of Multi-Point Constructive Search for Constraint-Based Scheduling		benchmark	0							240	360
BeniniBGM06 BeniniBGM06 [88]	Allocation, Scheduling and Voltage Scaling on Energy Aware MPSoCs		real-life	0							241	371
GomesHS06 GomesHS06 [257]	Constraint Programming for Distributed Planning and Scheduling		real-life	0							242	452
KhemmoudjPB06 KhemmoudjPB06 [348]	When Constraint Programming and Local Search Solve the Scheduling Problem of Electricité de France Nuclear Power Plant Outages		real-world	0							243	491
KovacsV06 KovacsV06 [364]	Progressive Solutions: A Simple but Efficient Dominance Rule for Practical RCPSP		industrial partner, benchmark, generated instance	0							244	501
LiuJ06 LiuJ06 [401]	LP-TPOP: Integrating Planning and Scheduling Through Constraint Programming			0							245	520
QuSN06 QuSN06 [521]	Using Constraint Programming to Achieve Optimal Prefetch Scheduling for Dependent Tasks on Run-Time Reconfigurable Devices			0							246	568
Wallace06 Wallace06 [636]	Hybrid Algorithms in Constraint Programming		benchmark, real-world, Roadef	0							247	627
AbrilSB05 AbrilSB05 [4]	Distributed Constraints for Large-Scale Scheduling Problems			0							248	331

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ArtiouchineB05 ArtiouchineB05 [34]	Inter-distance Constraint: An Extension of the All-Different Constraint for Scheduling Equal Length Jobs		generated instance, random instance	0							249	346
BeckW05 BeckW05 [72]	Proactive Algorithms for Scheduling with Probabilistic Durations			0							250	364
CarchraeBF05 CarchraeBF05 [133]	Methods to Learn Abstract Scheduling Models			0							251	395
ChuX05 ChuX05 [149]	A Hybrid Algorithm for a Class of Resource Constrained Scheduling Problems			0							252	402
DilkinaDH05 DilkinaDH05 [183]	Extending Systematic Local Search for Job Shop Scheduling Problems			0							253	417
FortinZDF05 FortinZDF05 [219]	Interval Analysis in Scheduling			0							254	428
FrankK05 FrankK05 [221]	Mixed Discrete and Continuous Algorithms for Scheduling Airborne Astronomy Observations		benchmark	0							255	429
Geske05 Geske05 [243]	Railway Scheduling with Declarative Constraint Programming		real-life	0							256	444
GodardLN05 GodardLN05 [247]	Randomized Large Neighborhood Search for Cumulative Scheduling		benchmark	0							257	447
HebrardTW05 HebrardTW05 [291]	Computing Super-Schedules			0							258	464
Hooker05a Hooker05a [311]	Planning and Scheduling to Minimize Tardiness			0							259	476
KovacsEKV05 KovacsEKV05 [361]	Proterv-II: An Integrated Production Planning and Scheduling System		real-life	0							260	498
MoffittPP05 MoffittPP05 [447]	Augmenting Disjunctive Temporal Problems with Finite-Domain Constraints			0							261	539
QuirogaZH05 QuirogaZH05 [522]	A Constraint Programming Approach to Tool Allocation and Resource Scheduling in FMS			0							262	569
SchuttWS05 SchuttWS05 [555]	Not-First and Not-Last Detection for Cumulative Scheduling in $O(n^3 \log n)$		benchmark	0							263	584
Vilim05 Vilim05 [625]	Computing Explanations for the Unary Resource Constraint		benchmark	4							264	621
Wolf05 Wolf05 [647]	Better Propagation for Non-preemptive Single-Resource Constraint Problems		benchmark	0							265	634
WolfS05 WolfS05 [649]	$O(n \log n)$ Overload Checking for the Cumulative Constraint and Its Application		real-world	0							266	637
WuBB05 WuBB05 [652]	Scheduling with Uncertain Start Dates		benchmark	0							267	639
ArtiguesBF04 ArtiguesBF04 [30]	A New Exact Solution Algorithm for the Job Shop Problem with Sequence-Dependent Setup Times		benchmark	0							268	344
BeckW04 BeckW04 [71]	Job Shop Scheduling with Probabilistic Durations			0							269	363
HentenryckM04 HentenryckM04 [302]	Scheduling Abstractions for Local Search		benchmark	0							270	469
Hooker04 Hooker04 [309]	A Hybrid Method for Planning and Scheduling		random instance	0							271	475
KovacsV04 KovacsV04 [363]	Completable Partial Solutions in Constraint Programming and Constraint-Based Scheduling		industrial partner, benchmark, real-life	0							272	500
LimRX04 LimRX04 [393]	Solving the Crane Scheduling Problem Using Intelligent Search Schemes		generated instance	0							273	516
MaraveliasG04 MaraveliasG04 [430]	Using MILP and CP for the Scheduling of Batch Chemical Processes			0							274	535

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Sadykov04 Sadykov04 [537]	A Hybrid Branch-And-Cut Algorithm for the One-Machine Scheduling Problem			0							275	576
Vilim04 Vilim04 [624]	O(n log n) Filtering Algorithms for Unary Resource Constraint		benchmark	1							276	620
VilimBC04 VilimBC04 [629]	Unary Resource Constraint with Optional Activities		benchmark, real-life	0							277	625
VillaverdeP04 VillaverdeP04 [632]	An Investigation of Scheduling in Distributed Constraint Logic Programming			0							278	No
WolinskiKG04 WolinskiKG04 [651]	A Constraints Programming Approach to Communication Scheduling on SoPC Architectures			0							279	638
BeckPS03 BeckPS03 [69]	Vehicle Routing and Job Shop Scheduling: What's the Difference?		benchmark, real-world	0							280	362
DannaP03 DannaP03 [163]	Structured vs. Unstructured Large Neighborhood Search: A Case Study on Job-Shop Scheduling Problems with Earliness and Tardiness Costs		benchmark	0							281	409
Kumar03 Kumar03 [371]	Incremental Computation of Resource-Envelopes in Producer-Consumer Models			0							282	505
OddiPCC03 OddiPCC03 [487]	Generating High Quality Schedules for a Spacecraft Memory Downlink Problem		benchmark	0							283	553
ValleMGT03 ValleMGT03 [615]	On Selecting and Scheduling Assembly Plans Using Constraint Programming		real-life	0							284	615
Vilim03 Vilim03 [623]	Computing Explanations for Global Scheduling Constraints			0							285	619
Wolf03 Wolf03 [646]	Pruning while Sweeping over Task Intervals		benchmark	0							286	633
Bartak02 Bartak02 [54]	Visopt ShopFloor: On the Edge of Planning and Scheduling		real-life	0							287	355
Bartak02a Bartak02a [53]	Visopt ShopFloor: Going Beyond Traditional Scheduling		benchmark, real-life	0							288	356
BeldiceanuC02 BeldiceanuC02 [79]	A New Multi-resource cumulatives Constraint with Negative Heights		real-life, random instance, benchmark	0							289	366
ElkhyariGJ02 ElkhyariGJ02 [198]	Conflict-Based Repair Techniques for Solving Dynamic Scheduling Problems			0							290	422
ElkhyariGJ02a ElkhyariGJ02a [199]	Solving Dynamic Resource Constraint Project Scheduling Problems Using New Constraint Programming Tools		benchmark, real-life	0							291	423
HookerY02 HookerY02 [319]	A Relaxation of the Cumulative Constraint			0							292	478
KamarainenS02 KamarainenS02 [336]	Local Probing Applied to Scheduling		real-world, benchmark	2							293	485
Muscettola02 Muscettola02 [459]	Computing the Envelope for Stepwise-Constant Resource Allocations			0							294	547
Vilim02 Vilim02 [622]	Batch Processing with Sequence Dependent Setup Times			0							295	618
ZhuS02 ZhuS02 [675]	A Meeting Scheduling System Based on Open Constraint Programming			0							296	648
Thorsteinsson01 Thorsteinsson01 [597]	Branch-and-Check: A Hybrid Framework Integrating Mixed Integer Programming and Constraint Logic Programming			0							297	606
VanczaM01 VanczaM01 [620]	A Constraint Engine for Manufacturing Process Planning		real-world, real-life	0							298	616

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
VerfaillieL01 VerfaillieL01 [621]	Selecting and Scheduling Observations for Agile Satellites: Some Lessons from the Constraint Reasoning Community Point of View			0							299	617
AngelsmarkJ00 AngelsmarkJ00 [18]	Some Observations on Durations, Scheduling and Allen's Algebra			0							300	336
FocacciLN00 FocacciLN00 [216]	Solving Scheduling Problems with Setup Times and Alternative Resources		real-world	0							301	426
DorndorfPH99 DorndorfPH99 [189]	Recent Developments in Scheduling			0							302	No
KorbaaYG99 KorbaaYG99 [355]	Solving transient scheduling problem for cyclic production using timed Petri nets and constraint programming			0							303	495
Simonis99 Simonis99 [568]	Building Industrial Applications with Constraint Programming		benchmark, real-world, real-life	0							304	590
CestaOS98 CestaOS98 [145]	Scheduling Multi-capacitated Resources Under Complex Temporal Constraints			0							305	399
FrostD98 FrostD98 [226]	Optimizing with Constraints: A Case Study in Scheduling Maintenance of Electric Power Units			0							306	432
GruianK98 GruianK98 [267]	Operation Binding and Scheduling for Low Power Using Constraint Logic Programming		benchmark	0							307	458
PembertonG98 PembertonG98 [502]	A constraint-based approach to satellite scheduling			0							308	559
RodosekW98 RodosekW98 [526]	A Generic Model and Hybrid Algorithm for Hoist Scheduling Problems		benchmark	0							309	572
BaptisteP97 BaptisteP97 [48]	Constraint Propagation and Decomposition Techniques for Highly Disjunctive and Highly Cumulative Project Scheduling Problems		benchmark	0							310	353
BeckDF97 BeckDF97 [65]	Five Pitfalls of Empirical Scheduling Research		benchmark, real-world	0							311	361
BoucherBVBL97 BoucherBVBL97 [117]	Multi-criteria Comparison Between Algorithmic, Constraint Logic and Specific Constraint Programming on a Real Schedulingt Problem			0							312	No
Caseau97 Caseau97 [138]	Using Constraint Propagation for Complex Scheduling Problems: Managing Size, Complex Resources and Travel		benchmark	0							313	396
PapeB97 PapeB97 [499]	A Constraint Programming Library for Preemptive and Non-Preemptive Scheduling			0							314	No
BrusoniCLMMT96 BrusoniCLMMT96 [124]	Resource-Based vs. Task-Based Approaches for Scheduling Problems			0							315	391
Colombani96 Colombani96 [158]	Constraint Programming: an Efficient and Practical Approach to Solving the Job-Shop Problem			0							316	408
Zhou96 Zhou96 [672]	A Constraint Program for Solving the Job-Shop Problem			0							317	646
Goltz95 Goltz95 [255]	Reducing Domains for Search in CLP(FD) and Its Application to Job-Shop Scheduling		benchmark	0							318	451
Puget95 Puget95 [518]	Applications of Constraint Programming		benchmark	0							319	567
Simonis95 Simonis95 [567]	The CHIP System and Its Applications			0							320	588
Simonis95a Simonis95a [566]	Application Development with the CHIP System		real-life, benchmark	0							321	589
SimonisC95 SimonisC95 [571]	Modelling Producer/Consumer Constraints		real-life	0							322	591

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
Touraivane95 Touraivane95 [603]	Constraint Programming and Industrial Applications	real-life		0							323	609
JourdanFRD94 JourdanFRD94 [330]	Data Alignment and Task Scheduling On Parallel Machines Using Concurrent Constraint Model-based Programming			0							324	No
NuijtenA94 NuijtenA94 [483]	Constraint Satisfaction for Multiple Capacitated Job Shop Scheduling			0							325	552
Wallace94 Wallace94 [634]	Applying Constraints for Scheduling			0							326	No
BaptisteLV92 BaptisteLV92 [51]	Hoist scheduling problem: an approach based on constraint logic programming			0							327	352
ErtlK91 ErtlK91 [201]	Optimal Instruction Scheduling using Constraint Logic Programming		real-world, benchmark	0							328	424
FoxAS82 FoxAS82 [220]	Job-Shop Scheduling: An Investigation in Constraint-Directed Reasoning			0							329	No

3 Journal Articles

3.1 Articles from bibtex

Table 5: Works from bibtex (Total 281)

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	1335	1524
PrataAN23 PrataAN23	Bruno A. Prata, Levi R. Abreu, Marcelo S. Nagano	Applications of constraint programming in production scheduling problems: A descriptive bibliometric analysis	Yes	[517]	2024	Results in Control and Optimization	17	0	0	1455	1525
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	[474]	2024	CoRR	21	0	0	1523	1526
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	1264	1527
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	1265	1528
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	1266	1529
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	1267	1530
AkramNHRSA23 AkramNHRSA23	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	1269	1531
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	1270	1532
Caballero23 Caballero23	Jordi Coll Caballero	Scheduling through logic-based tools	Yes	[128]	2023	Constraints An Int. J.	1	0	0	1308	1533
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	1318	1534
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	1535
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	1333	1536
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	1537
GokPTGO23 GokPTGO23	Yagmur S. Gök, S. Padrón, M. Tomasella, D. Guimarans, C. Ozturk	Constraint-based robust planning and scheduling of airport apron operations through simheuristics	Yes	[275]	2023	Annals of Operations Research	36	0	0	1340	1538
GuoZ23 GuoZ23	P. Guo, J. Zhu	Capacity reservation for humanitarian relief: A logic-based Benders decomposition method with subgradient cut	Yes	[272]	2023	European Journal of Operational Research	29	0	112	1347	1539
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	[273]	2023	Central Eur. J. Oper. Res.	25	1	40	1349	1540
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	[325]	2023	Soft Comput.	28	0	127	1372	1541

Table 5: Works from bibtex (Total 281)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
JuvinHL23a JuvinHL23a	C. Juvin, L. Houssin, P. Lopez	Logic-based Benders decomposition for the preemptive flexible job-shop scheduling problem	Yes	[335]	2023	Computers Operations Research	17	0	40	1377	1542
LacknerMMWW23 LacknerMMWW23	M. Lackner, C. Mrkvicka, N. Musliu, D. Walkiewicz, F. Winter	Exact methods for the Oven Scheduling Problem	Yes	[378]	2023	Constraints An Int. J.	42	0	32	1393	1543
MarliereSPR23 MarliereSPR23	G. Marlière, Sonia Sobieraj Richard, P. Pellegrini, J. Rodriguez	A conditional time-intervals formulation of the real-time Railway Traffic Management Problem	Yes	[431]	2023	Control Engineering Practice	22	1	75	1410	1544
MontemanniD23 MontemanniD23	R. Montemanni, M. Dell'Amico	Solving the Parallel Drone Scheduling Traveling Salesman Problem via Constraint Programming	Yes	[452]	2023	Algorithms	13	2	18	1421	1545
MontemanniD23a MontemanniD23a	R. Montemanni, M. Dell'Amico	Constraint programming models for the parallel drone scheduling vehicle routing problem	Yes	[451]	2023	EURO J. Comput. Optim.	20	0	14	1422	1546
NaderiRR23 NaderiRR23	B. Naderi, R. Ruiz, V. Roshanaei	Mixed-Integer Programming vs. Constraint Programming for Shop Scheduling Problems: New Results and Outlook	Yes	[465]	2023	INFORMS Journal on Computing	27	2	50	1426	1547
NouriMHD23 NouriMHD23	B. Vahedi-Nouri, R. Tavakkoli-Moghaddam, Z. Hanzálek, A. Dolgui	Production scheduling in a reconfigurable manufacturing system benefiting from human-robot collaboration	No	[614]	2023	International Journal of Production Research	null	2	44	No	1548
PenzDN23 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	[503]	2023	Computers Operations Research	13	0	34	1450	1549
ShaikhK23 ShaikhK23	Aftab Ahmed Shaikh, Abdullah Ayub Khan	Management of electronic ledger: a constraint programming approach for solving curricula scheduling problems	Yes	[557]	2023	Int. J. Electron. Secur. Digit. Forensics	12	0	0	1471	1550
YuraszeckMCCR23 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	[661]	2023	IEEE Access	11	0	0	1501	1551
ZhuSZW23 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	[676]	2023	Omega	22	1	36	1510	1552
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	[300]	2023	CoRR	42	0	0	1520	1553
abs-2306-05747 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	[587]	2023	CoRR	9	0	0	1521	1554
abs-2312-13682 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	[505]	2023	CoRR	20	0	0	1522	1555
AbreuN22 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	1263	1556
BourreauGGLT22 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	1306	1557
CampeauG22 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	1309	1558
ColT22 ColT22	Giacomo Da Col, Erich C. Teppan	Industrial-size job shop scheduling with constraint programming	Yes	[161]	2022	Operations Research Perspectives	19	3	55	1316	1559
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	1323	1560
EmdeZD22 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	1324	1561

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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	1326	1562
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	14	0	0	1332	1563
FetgoD22 FetgoD22	Sévérine Betmbe Fetgo, Clémentin Tayou Djamégni	Horizontally Elastic Edge-Finder Algorithm for Cumulative Resource Constraint Revisited	Yes	[215]	2022	Oper. Res. Forum	32	0	20	1334	1564
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	[299]	2022	Computers Industrial Engineering	16	5	25	1361	1565
HillBCGN22 HillBCGN22	A. Hill, Andrea J. Brickey, I. Cipriano, M. Goycoolea, A. Newman	Optimization Strategies for Resource-Constrained Project Scheduling Problems in Underground Mining	No	[305]	2022	INFORMS Journal on Computing	null	0	53	No	1566
JuvinHL22 JuvinHL22	C. Juvin, L. Houssin, P. Lopez	Logic-Based Benders Decomposition for the Preemptive Flexible Job-Shop Scheduling Problem	Yes	[333]	2022	SSRN Electronic Journal	32	0	29	1376	1567
MartnezAJ22 MartnezAJ22	Karim Pérez Martínez, Y. Adulyasak, R. Jans	Logic-Based Benders Decomposition for Integrated Process Configuration and Production Planning Problems	No	[433]	2022	INFORMS Journal on Computing	null	1	29	No	1568
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	[456]	2022	European Journal of Operational Research	18	17	59	1423	1569
NaderiBZ22 NaderiBZ22	B. Naderi, Mehmet A. Begen, G. Zhang	Integrated Order Acceptance and Resource Decisions Under Uncertainty: Robust and Stochastic Approaches	Yes	[462]	2022	SSRN Electronic Journal	29	0	44	1424	1570
NaderiBZ22a NaderiBZ22a	B. Naderi, Mehmet A. Begen, Gregory S. Zaric	Type-2 integrated process-planning and scheduling problem: Reformulation and solution algorithms	Yes	[461]	2022	Computers Operations Research	19	3	44	1425	1571
NaderiR22 NaderiR22	B. Naderi, V. Roshanaei	Critical-Path-Search Logic-Based Benders Decomposition Approaches for Flexible Job Shop Scheduling	No	[463]	2022	INFORMS Journal on Optimization	null	5	49	No	1572
OrnekOS20 OrnekOS20	M. Arslan Ornek, C. Ozturk, I. Sugut	Integer and constraint programming model formulations for flight-gate assignment problem	Yes	[490]	2022	Operational Research	29	0	0	1442	1573
PohlAK22 PohlAK22	M. Pohl, C. Artigues, R. Kolisch	Solving the time-discrete winter runway scheduling problem: A column generation and constraint programming approach	Yes	[510]	2022	European Journal of Operational Research	16	4	31	1452	1574
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	[559]	2022	International Journal of Production Research	18	2	45	No	1575
SubulanC22 SubulanC22	K. Subulan, G. Çakir	Constraint programming-based transformation approach for a mixed fuzzy-stochastic resource investment project scheduling problem	Yes	[575]	2022	Soft Comput.	38	5	86	1478	1576
YunusogluY22 YunusogluY22	P. Yunusoglu, Seyda Topaloglu Yildiz	Constraint programming approach for multi-resource-constrained unrelated parallel machine scheduling problem with sequence-dependent setup times	Yes	[658]	2022	International Journal of Production Research	18	20	58	1500	1577
YuraszeckMPV22 YuraszeckMPV22	F. Yuraszeck, G. Mejía, J. Pereira, M. Vilà	A Novel Constraint Programming Decomposition Approach for the Total Flow Time Fixed Group Shop Scheduling Problem	Yes	[660]	2022	Mathematics	26	6	29	1502	1578
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	[576]	2022	CoRR	17	0	0	1519	1579
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	IEEE Access	14	1	25	1261	1580

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AbreuAPNM21 AbreuAPNM21	Levi Ribeiro de Abreu, Kennedy A. G. Araújo, Bruno de Athayde Prata, Marcelo Seido Nagano, J. V. Moccellin	A new variable neighbourhood search with a constraint programming search strategy for the open shop scheduling problem with operation repetitions	Yes	[167]	2021	Engineering Optimization	21	0	0	1262	1581
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	1290	1582
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	1583
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	1331	1584
HamPK21 HamPK21	A. Ham, M. Park, Kyung Min Kim	Energy-Aware Flexible Job Shop Scheduling Using Mixed Integer Programming and Constraint Programming	Yes	[279]	2021	Mathematical Problems in Engineering	12	0	0	1355	1585
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	[322]	2021	Journal of Scheduling	22	0	37	1371	1586
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	[352]	2021	Constraints An Int. J.	51	2	52	1382	1587
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	[464]	2021	Production and Operations Management	null	22	61	No	1588
PandeyS21a PandeyS21a	V. Pandey, P. Saini	Constraint programming versus heuristic approach to MapReduce scheduling problem in Hadoop YARN for energy minimization	Yes	[497]	2021	J. Supercomput.	29	3	32	1447	1589
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	[519]	2021	IEEE Trans Autom. Sci. Eng.	12	12	30	1457	1590
VlkHT21 VlkHT21	M. Vlk, Z. Hanzálek, S. Tang	Constraint programming approaches to joint routing and scheduling in time-sensitive networks	Yes	[633]	2021	Computers Industrial Engineering	14	7	22	1493	1591
ZhangYW21 ZhangYW21	L. Zhang, C. Yu, T. N. Wong	A graph-based constraint programming approach for the integrated process planning and scheduling problem	Yes	[669]	2021	Computers Operations Research	10	6	35	1508	1592
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	1518	1593
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	1594
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	1271	1595
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	1274	1596
BadicaBI20 BadicaBI20	A. Badica, C. Badica, M. Ivanovic	Block structured scheduling using constraint logic programming	Yes	[39]	2020	AI Commun.	17	2	28	1275	1597
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	1295	1598

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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	1311	1599
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	18	0	0	1330	1600
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	[271]	2020	Engineering Optimization	null	8	31	No	1601
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	[287]	2020	Computers Industrial Engineering	14	14	46	1358	1602
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	[417]	2020	Computers Operations Research	20	30	18	1407	1603
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	[436]	2020	European Journal of Operational Research	13	24	45	1413	1604
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	[440]	2020	Computers Industrial Engineering	13	100	62	1416	1605
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	[448]	2020	Int. J. Comput. Integr. Manuf.	14	25	32	1420	1606
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	[511]	2020	International Journal of Production Research	18	8	23	1453	1607
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	[520]	2020	European Journal of Operational Research	18	27	30	1456	1608
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	[531]	2020	International Journal of Production Economics	19	24	43	1460	1609
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	[536]	2020	Oper. Res. Forum	33	2	38	1463	1610
WallaceY20 WallaceY20	M. Wallace, N. Yorke-Smith	A new constraint programming model and solving for the cyclic hoist scheduling problem	Yes	[637]	2020	Constraints An Int. J.	19	5	18	1495	1611
ZarandiASC20 ZarandiASC20	Mohammad Hossein Fazel Zarandi, Ali Akbar Sadat Asl, S. Sotudian, O. Castillo	A state of the art review of intelligent scheduling	Yes	[664]	2020	Artif. Intell. Rev.	93	55	445	1503	1612
ZouZ20 ZouZ20	X. Zou, L. Zhang	A constraint programming approach for scheduling repetitive projects with atypical activities considering soft logic	Yes	[679]	2020	Automation in Construction	10	0	0	1511	1613
ArkhipovBL19 ArkhipovBL19	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	1272	1614
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	1615
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	1325	1616

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GurEA19 GurEA19	Şeyda Gür, T. Eren, Hacı Mehmet Alakaş	Surgical Operation Scheduling with Goal Programming and Constraint Programming: A Case Study	Yes	[682]	2019	Mathematics	24	0	0	1348	1617
HoundjiSW19 HoundjiSW19	Vinasétan Ratheil Houndji, P. Schaus, Laurence A. Wolsey	The item dependent stockingcost constraint	Yes	[320]	2019	Constraints An Int. J.	27	0	17	1370	1618
NattafDYW19 NattafDYW19	M. Nattaf, S. Dauzère-Pérès, C. Yugma, C. Wu	Parallel machine scheduling with time constraints on machine qualifications	Yes	[470]	2019	Computers Operations Research	16	14	21	1430	1619
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	[471]	2019	Discret. Appl. Math.	16	5	12	1431	1620
NishikawaSTT19 NishikawaSTT19	H. Nishikawa, K. Shimada, I. Taniguchi, H. Tomiyama	A Constraint Programming Approach to Scheduling of Malleable Tasks	Yes	[477]	2019	Int. J. Netw. Comput.	16	0	0	1432	1621
Novas19 Novas19	Juan M. Novas	Production scheduling and lot streaming at flexible job-shops environments using constraint programming	Yes	[479]	2019	Computers Industrial Engineering	13	30	29	1434	1622
WariZ19 WariZ19	E. Wari, W. Zhu	A Constraint Programming model for food processing industry: a case for an ice cream processing facility	No	[641]	2019	International Journal of Production Research	null	11	42	No	1623
WikarekS19 WikarekS19	J. Wikarek, P. Sitek	A Constraint-Based Declarative Programming Framework for Scheduling and Resource Allocation Problems	Yes	[644]	2019	Vietnam. J. Comput. Sci.	22	0	11	1497	1624
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	[655]	2019	Operations research for health care	11	0	0	1499	1625
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	1514	1626
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	1515	1627
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	[286]	2019	CoRR	62	0	0	1516	1628
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	1517	1629
BaptisteB18 BaptisteB18	P. Baptiste, N. Bonifas	Redundant cumulative constraints to compute preemptive bounds	Yes	[46]	2018	Discret. Appl. Math.	10	3	13	1279	1630
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	1305	1631
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	1312	1632
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	1328	1633
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	1338	1634
GokgurHO18 GokgurHO18	B. Gökgür, B. Hnich, S. Özpeynirci	Parallel machine scheduling with tool loading: a constraint programming approach	Yes	[252]	2018	International Journal of Production Research	17	31	43	1341	1635
GoldwaserS18 GoldwaserS18	A. Goldwaser, A. Schutt	Optimal Torpedo Scheduling	Yes	[254]	2018	J. Artif. Intell. Res.	32	8	0	1342	1636
GombolayWS18 GombolayWS18	Matthew C. Gombolay, Ronald J. Wilcox, Julie A. Shah	Fast Scheduling of Robot Teams Performing Tasks With Temporospatial Constraints	Yes	[256]	2018	IEEE Transactions on Robotics	20	71	75	1343	1637

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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	[277]	2018	Transportation Research Part C: Emerging Technologies	14	0	0	1352	1638
Ham18a Ham18a	A. Ham	Scheduling of Dual Resource Constrained Lithography Production: Using CP and MIP/CP	Yes	[278]	2018	IEEE Transactions on Semiconductor Manufacturing	10	20	21	1353	1639
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	[368]	2018	European Journal of Operational Research	15	25	31	1388	1640
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	[376]	2018	Constraints An Int. J.	41	148	35	1392	1641
PourDERB18 PourDERB18	Shahrzad 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	[513]	2018	European Journal of Operational Research	12	41	13	1454	1642
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	[560]	2018	IEEE Trans. Syst. Man Cybern. Syst.	16	9	31	1472	1643
TangLWSK18 TangLWSK18	Y. Tang, R. Liu, F. Wang, Q. Sun, Amr A. Kandil	Scheduling Optimization of Linear Schedule with Constraint Programming	Yes	[584]	2018	Comput. Aided Civ. Infrastructure Eng.	28	24	76	1480	1644
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	[607]	2018	Journal of Scheduling	17	8	26	1488	1645
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	[670]	2018	IEEE Trans. Engineering Management	18	49	28	1507	1646
GomesM17 GomesM17	Francisco Regis Abreu Gomes, Geraldo Robson Mateus	Improved Combinatorial Benders Decomposition for a Scheduling Problem with Unrelated Parallel Machines	Yes	[258]	2017	Journal of Applied Mathematics	11	1	43	1344	1647
HookerH17 HookerH17	John N. Hooker, Willem-Jan van Hoeve	Constraint programming and operations research	Yes	[318]	2017	Constraints An Int. J.	24	12	189	1368	1648
KreterSS17 KreterSS17	S. Kreter, A. Schutt, Peter J. Stuckey	Using constraint programming for solving RCPSP/max-cal	Yes	[367]	2017	Constraints An Int. J.	31	15	20	1387	1649
NattafAL17 NattafAL17	M. Nattaf, C. Artigues, P. Lopez	Cumulative scheduling with variable task profiles and concave piecewise linear processing rate functions	Yes	[468]	2017	Constraints An Int. J.	18	5	10	1428	1650
RoshanaeiLAU17 RoshanaeiLAU17	V. Roshanaei, C. Luong, Dionne M. Aleman, D. Urbach	Propagating logic-based Benders' decomposition approaches for distributed operating room scheduling	Yes	[532]	2017	European Journal of Operational Research	17	61	46	1461	1651
RoshanaeiLAU17a RoshanaeiLAU17a	V. Roshanaei, C. Luong, Dionne M. Aleman, David R. Urbach	Collaborative Operating Room Planning and Scheduling	No	[533]	2017	INFORMS Journal on Computing	null	54	42	No	1652
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	[609]	2017	J. Artif. Intell. Res.	68	12	0	1489	1653
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	1301	1654
Bonfietti16 Bonfietti16	A. Bonfietti	A constraint programming scheduling solver for the MPOpt programming environment	Yes	[106]	2016	Intelligenza Artificiale	13	0	19	1303	1655
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	1307	1656

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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	1314	1657
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	1322	1658
HamC16 HamC16	Andy M. Ham, E. Cakici	Flexible job shop scheduling problem with parallel batch processing machines: MIP and CP approaches	Yes	[280]	2016	Computers Industrial Engineering	6	50	26	1354	1659
HebrardHJMPV16 HebrardHJMPV16	E. Hebrard, M. Huguet, N. Jozefowiez, A. Maillard, C. Pralet, G. Verfaillie	Approximation of the parallel machine scheduling problem with additional unit resources	Yes	[290]	2016	Discret. Appl. Math.	10	9	8	1359	1660
KuB16 KuB16	W. Ku, J. Christopher Beck	Mixed Integer Programming models for job shop scheduling: A computational analysis	Yes	[369]	2016	Computers Operations Research	9	119	17	1389	1661
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	[469]	2016	OR Spectr.	34	10	15	1429	1662
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	[478]	2016	Computers Chemical Engineering	17	18	31	1433	1663
OrnekO16 OrnekO16	A. Ornek, C. Ozturk	Optimisation and Constraint Based Heuristic Methods for Advanced Planning and Scheduling Systems	Yes	[489]	2016	International Journal of Industrial Engineering: Theory, Applications and Practice	25	0	0	1441	1664
TranAB16 TranAB16	Tony T. Tran, A. Araujo, J. Christopher Beck	Decomposition Methods for the Parallel Machine Scheduling Problem with Setups	Yes	[604]	2016	INFORMS Journal on Computing	13	72	28	1487	1665
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	[663]	2016	Journal of Intelligent Manufacturing	17	28	14	1504	1666
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	1277	1667
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	1327	1668
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	1339	1669
GrimesH15 GrimesH15	D. Grimes, E. Hebrard	Solving Variants of the Job Shop Scheduling Problem Through Conflict-Directed Search	Yes	[261]	2015	INFORMS Journal on Computing	17	12	41	1345	1670
Kameugne15 Kameugne15	R. Kameugne	Propagation techniques of resource constraint for cumulative scheduling	Yes	[338]	2015	Constraints An Int. J.	2	0	0	1378	1671
LetortCB15 LetortCB15	A. Letort, M. Carlsson, N. Beldiceanu	Synchronized sweep algorithms for scalable scheduling constraints	Yes	[389]	2015	Constraints An Int. J.	52	2	14	1395	1672
NattafAL15 NattafAL15	M. Nattaf, C. Artigues, P. Lopez	A hybrid exact method for a scheduling problem with a continuous resource and energy constraints	Yes	[467]	2015	Constraints An Int. J.	21	14	13	1427	1673
OzturkTHO15 OzturkTHO15	C. Öztürk, S. Tunalı, B. Hnich, A. Örnek	Cyclic scheduling of flexible mixed model assembly lines with parallel stations	Yes	[681]	2015	Journal of Manufacturing Systems	12	27	17	1446	1674
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	[543]	2015	OR Spectrum	21	24	20	1468	1675
Siala15 Siala15	M. Siala	Search, propagation, and learning in sequencing and scheduling problems	Yes	[561]	2015	Constraints An Int. J.	2	4	0	1473	1676
SimoninAHL15 SimoninAHL15	G. Simonin, C. Artigues, E. Hebrard, P. Lopez	Scheduling scientific experiments for comet exploration	Yes	[565]	2015	Constraints An Int. J.	23	4	5	1474	1677

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WangMD15 WangMD15	T. Wang, N. Meskens, D. Duvivier	Scheduling operating theatres: Mixed integer programming vs. constraint programming	Yes	[640]	2015	European Journal of Operational Research	13	36	33	1496	1678
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	1300	1679
BonfiettiLBM14 BonfiettiLBM14	A. Bonfietti, M. Lombardi, L. Benini, M. Milano	CROSS cyclic resource-constrained scheduling solver	Yes	[109]	2014	Artificial Intelligence	28	8	15	1304	1680
GrimesIOS14 GrimesIOS14	D. Grimes, G. Ifrim, B. O'Sullivan, H. Simonis	Analyzing the impact of electricity price forecasting on energy cost-aware scheduling	Yes	[263]	2014	Sustain. Comput. Informatics Syst.	16	6	7	1346	1681
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	[283]	2014	Computers Chemical Engineering	33	381	176	1357	1682
KameugneFSN14 KameugneFSN14	R. Kameugne, Laure Pauline Fotso, Joseph D. Scott, Y. Ngo-Kateu	A quadratic edge-finding filtering algorithm for cumulative resource constraints	Yes	[342]	2014	Constraints An Int. J.	27	6	10	1379	1683
NovasH14 NovasH14	Juan M. Novas, Gabriela P. Henning	Integrated scheduling of resource-constrained flexible manufacturing systems using constraint programming	Yes	[482]	2014	Expert Syst. Appl.	14	35	26	1437	1684
TerekhovTDB14 TerekhovTDB14	D. Terekhov, Tony T. Tran, Douglas G. Down, J. Christopher Beck	Integrating Queueing Theory and Scheduling for Dynamic Scheduling Problems	Yes	[591]	2014	J. Artif. Intell. Res.	38	12	0	1482	1685
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	[595]	2014	J. Heuristics	34	19	18	1483	1686
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	1276	1687
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	1291	1688
HeinzSB13 HeinzSB13	S. Heinz, J. Schulz, J. Christopher Beck	Using dual presolving reductions to reformulate cumulative constraints	Yes	[298]	2013	Constraints An Int. J.	36	7	31	1362	1689
LombardiMB13 LombardiMB13	M. Lombardi, M. Milano, L. Benini	Robust Scheduling of Task Graphs under Execution Time Uncertainty	Yes	[411]	2013	IEEE Transactions on Computers	14	28	29	1402	1690
MenciaSV13 MenciaSV13	C. Mencía, María R. Sierra, R. Varela	Intensified iterative deepening A* with application to job shop scheduling	Yes	[439]	2013	Journal of Intelligent Manufacturing	11	9	43	1415	1691
OzturkTHO13 OzturkTHO13	C. Öztürk, S. Tunali, B. Hnich, M. Arslan Ornek	Balancing and scheduling of flexible mixed model assembly lines	Yes	[496]	2013	Constraints An Int. J.	36	31	44	1445	1692
SchuttFSW13 SchuttFSW13	A. Schutt, T. Feydy, Peter J. Stuckey, Mark G. Wallace	Solving RCPSP/max by lazy clause generation	Yes	[551]	2013	Journal of Scheduling	17	43	23	1470	1693
GuyonLPR12 GuyonLPR12	O. Guyon, P. Lemaire, Éric Pinson, D. Rivreau	Solving an integrated job-shop problem with human resource constraints	Yes	[274]	2012	Annals of Operations Research	25	32	25	1350	1694
HeinzSSW12 HeinzSSW12	S. Heinz, T. Schlechte, R. Stephan, M. Winkler	Solving steel mill slab design problems	Yes	[296]	2012	Constraints An Int. J.	12	10	9	1363	1695
LimtanyakulS12 LimtanyakulS12	K. Limtanyakul, U. Schwiegelshohn	Improvements of constraint programming and hybrid methods for scheduling of tests on vehicle prototypes	Yes	[397]	2012	Constraints An Int. J.	32	4	16	1398	1696
LombardiM12 LombardiM12	M. Lombardi, M. Milano	Optimal methods for resource allocation and scheduling: a cross-disciplinary survey	Yes	[409]	2012	Constraints An Int. J.	35	39	68	1400	1697
LombardiM12a LombardiM12a	M. Lombardi, M. Milano	A min-flow algorithm for Minimal Critical Set detection in Resource Constrained Project Scheduling	Yes	[408]	2012	Artificial Intelligence	10	3	13	1401	1698
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	[425]	2012	INFORMS Journal on Computing	17	23	21	1408	1699
MenciaSV12 MenciaSV12	C. Mencía, María R. Sierra, R. Varela	Depth-first heuristic search for the job shop scheduling problem	Yes	[438]	2012	Annals of Operations Research	32	16	40	1414	1700

Table 5: Works from bibtex (Total 281)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
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	[481]	2012	Computers Chemical Engineering	17	17	15	1436	1701
OzturkTHO12 OzturkTHO12	C. Öztürk, S. Tunalı, B. Hnich, M. Örnek	A Constraint Programming Model for Balancing and Scheduling of Flexible Mixed Model Assembly Lines with Parallel Stations	Yes	[680]	2012	IFAC Proceedings Volumes	6	5	5	1444	1702
TerekhovDOB12 TerekhovDOB12	D. Terekhov, Mustafa K. Dogru, U. Özen, J. Christopher Beck	Solving two-machine assembly scheduling problems with inventory constraints	Yes	[590]	2012	Computers Industrial Engineering	15	8	48	1481	1703
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	1704
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	1278	1705
BartakS11 BartakS11	R. Barták, Miguel A. Salido	Constraint satisfaction for planning and scheduling problems	Yes	[57]	2011	Constraints An Int. J.	5	17	3	1282	1706
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	1287	1707
BeldiceanuCDP11 BeldiceanuCDP11	N. Beldiceanu, M. Carlsson, S. Demassey, E. Poder	New filtering for the *cumulative* constraint in the context of non-overlapping rectangles	Yes	[80]	2011	Annals of Operations Research	24	8	8	1293	1708
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	1296	1709
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	1315	1710
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	1711
HachemiGR11 HachemiGR11	Nizar El Hachemi, M. Gendreau, L. Rousseau	A hybrid constraint programming approach to the log-truck scheduling problem	Yes	[276]	2011	Annals of Operations Research	16	32	19	1351	1712
HeckmanB11 HeckmanB11	I. Heckman, J. Christopher Beck	Understanding the behavior of Solution-Guided Search for job-shop scheduling	Yes	[293]	2011	Journal of Scheduling	20	0	22	1360	1713
KelbelH11 KelbelH11	J. Kelbel, Z. Hanzálek	Solving production scheduling with earliness/tardiness penalties by constraint programming	Yes	[345]	2011	Journal of Intelligent Manufacturing	10	12	14	1380	1714
KovacsB11 KovacsB11	A. Kovács, J. Christopher Beck	A global constraint for total weighted completion time for unary resources	Yes	[360]	2011	Constraints An Int. J.	24	4	26	1385	1715
KovacsK11 KovacsK11	A. Kovács, T. Kis	Constraint programming approach to a bilevel scheduling problem	Yes	[362]	2011	Constraints An Int. J.	24	3	24	1386	1716
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	[541]	2011	Constraints An Int. J.	23	14	5	1466	1717
SchuttFSW11 SchuttFSW11	A. Schutt, T. Feydy, Peter J. Stuckey, Mark G. Wallace	Explaining the cumulative propagator	Yes	[550]	2011	Constraints An Int. J.	33	57	23	1469	1718
TopalogluO11 TopalogluO11	S. Topaloglu, I. Ozkarahan	A constraint programming-based solution approach for medical resident scheduling problems	Yes	[600]	2011	Computers Operations Research	10	46	24	1485	1719
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	[612]	2011	Computers Industrial Engineering	7	11	17	1490	1720
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	1281	1721
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	1283	1722
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	1313	1723

Table 5: Works from bibtex (Total 281)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
LombardiM10a LombardiM10a	M. Lombardi, M. Milano	Allocation and scheduling of Conditional Task Graphs	Yes	[406]	2010	Artificial Intelligence	30	8	24	1399	1724
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	[412]	2010	Journal of Scheduling	31	24	41	1403	1725
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	[413]	2010	Constraints An Int. J.	39	31	18	1404	1726
NovasH10 NovasH10	Juan M. Novas, Gabriela P. Henning	Reactive scheduling framework based on domain knowledge and constraint programming	Yes	[480]	2010	Computers Chemical Engineering	20	48	19	1435	1727
OzturkTHO10 OzturkTHO10	C. Ozturk, S. Tunali, B. Hnich, Arslan M. Ornek	Simultaneous Balancing and Scheduling of Flexible Mixed Model Assembly Lines with Sequence-Dependent Setup Times	Yes	[495]	2010	Electronic Notes in Discrete Mathematics	8	15	1	1443	1728
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	[666]	2010	Eng. Appl. Artif. Intell.	20	33	28	1506	1729
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	[549]	2010	CoRR	37	0	0	1513	1730
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	1298	1731
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	1302	1732
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	1310	1733
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	1336	1734
Jans09 Jans09	R. Jans	Solving Lot-Sizing Problems on Parallel Identical Machines Using Symmetry-Breaking Constraints	Yes	[328]	2009	INFORMS Journal on Computing	24	59	73	1375	1735
MilanoW09 MilanoW09	M. Milano, M. Wallace	Integrating Operations Research in Constraint Programming	Yes	[446]	2009	Annals of Operations Research	40	34	46	1419	1736
OhrimenkoSC09 OhrimenkoSC09	O. Ohrimenko, Peter J. Stuckey, M. Codish	Propagation via lazy clause generation	Yes	[488]	2009	Constraints An Int. J.	35	127	15	1440	1737
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	[535]	2009	IEEE Trans. Comput. Aided Des. Integr. Circuits Syst.	14	9	27	1462	1738
WuBB09 WuBB09	Christine Wei Wu, Kenneth N. Brown, J. Christopher Beck	Scheduling with uncertain durations: Modeling beta-robust scheduling with constraints	Yes	[653]	2009	Computers Operations Research	9	42	5	1498	1739
abs-0907-0939 abs-0907-0939	T. Petit, E. Poder	The Soft Cumulative Constraint	Yes	[507]	2009	CoRR	12	0	0	1512	1740
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	1337	1741
KovacsB08 KovacsB08	A. Kovács, J. Christopher Beck	A global constraint for total weighted completion time for cumulative resources	Yes	[359]	2008	Eng. Appl. Artif. Intell.	7	5	14	1384	1742
LiW08 LiW08	H. Li, K. Womer	Scheduling projects with multi-skilled personnel by a hybrid MILP/CP benders decomposition algorithm	Yes	[390]	2008	Journal of Scheduling	18	113	31	1396	1743
LiessM08 LiessM08	O. Liess, P. Michelon	A constraint programming approach for the resource-constrained project scheduling problem	Yes	[392]	2008	Annals of Operations Research	12	22	14	1397	1744
MalikMB08 MalikMB08	Abid M. Malik, J. McInnes, Peter van Beek	Optimal Basic Block Instruction Scheduling for Multiple-Issue Processors Using Constraint Programming	Yes	[429]	2008	Int. J. Artif. Intell. Tools	18	15	8	1409	1745
MercierH08 MercierH08	L. Mercier, Pascal Van Hentenryck	Edge Finding for Cumulative Scheduling	Yes	[441]	2008	INFORMS Journal on Computing	21	32	5	1417	1746

Table 5: Works from bibtex (Total 281)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
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	1284	1747
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	1289	1748
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	1317	1749
Hooker07 Hooker07	John N. Hooker	Planning and Scheduling by Logic-Based Benders Decomposition	Yes	[313]	2007	Operations Research	29	181	19	1367	1750
Rodriguez07 Rodriguez07	J. Rodriguez	A constraint programming model for real-time train scheduling at junctions	Yes	[527]	2007	Transportation Research Part B: Methodological	15	117	6	1458	1751
Simonis07 Simonis07	H. Simonis	Models for Global Constraint Applications	Yes	[569]	2007	Constraints An Int. J.	30	10	17	1475	1752
Hooker06 Hooker06	John N. Hooker	An Integrated Method for Planning and Scheduling to Minimize Tardiness	Yes	[312]	2006	Constraints An Int. J.	19	19	13	1366	1753
KhayatLR06 KhayatLR06	Ghada El Khayat, A. Langevin, D. Riopel	Integrated production and material handling scheduling using mathematical programming and constraint programming	Yes	[347]	2006	European Journal of Operational Research	15	84	14	1381	1754
MilanoW06 MilanoW06	M. Milano, M. Wallace	Integrating operations research in constraint programming	Yes	[445]	2006	4OR	45	18	46	1418	1755
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	[538]	2006	INFORMS Journal on Computing	9	45	6	1464	1756
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	[578]	2006	Int. J. Parallel Emergent Distributed Syst.	19	12	23	1479	1757
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	1320	1758
Hooker05 Hooker05	John N. Hooker	A Hybrid Method for the Planning and Scheduling	Yes	[310]	2005	Constraints An Int. J.	17	68	11	1365	1759
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	[630]	2005	Constraints An Int. J.	23	21	5	1492	1760
ZeballosH05 ZeballosH05	L. Zeballos, Gabriela P. Henning	A Constraint Programming Approach to FMS Scheduling. Consideration of Storage and Transportation Resources	Yes	[665]	2005	Inteligencia Artif.	10	0	0	1505	1761
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	[509]	2004	European Journal of Operational Research	16	7	8	1451	1762
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	1288	1763
HookerO03 HookerO03	John N. Hooker, G. Ottosson	Logic-based Benders decomposition	Yes	[317]	2003	Mathematical Programming	28	317	0	1369	1764
KuchcinskiW03 KuchcinskiW03	K. Kuchcinski, C. Wolinski	Global approach to assignment and scheduling of complex behaviors based on HCDG and constraint programming	Yes	[370]	2003	J. Syst. Archit.	15	19	18	1390	1765
Laborie03 Laborie03	P. Laborie	Algorithms for propagating resource constraints in AI planning and scheduling: Existing approaches and new results	Yes	[373]	2003	Artificial Intelligence	38	128	10	1391	1766
Tsang03 Tsang03	Edward P. K. Tsang	Constraint Based Scheduling: Applying Constraint Programming to Scheduling Problems	Yes	[613]	2003	Journal of Scheduling	2	1	0	1491	1767
HarjunkoskiG02 HarjunkoskiG02	I. Harjunkoski, Ignacio E. Grossmann	Decomposition techniques for multistage scheduling problems using mixed-integer and constraint programming methods	Yes	[282]	2002	Computers Chemical Engineering	20	169	11	1356	1768

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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	[415]	2002	Journal of the Operational Research Society	8	22	0	1406	1769
MilanoORT02 MilanoORT02	M. Milano, G. Ottosson, P. Refalo, Erlendur S. Thorsteinsson	The Role of Integer Programming Techniques in Constraint Programming's Global Constraints	No	[444]	2002	INFORMS Journal on Computing	null	14	31	No	1770
RodriguezDG02 RodriguezDG02	J. Rodriguez, X. Delorme, X. Gandibleux	Railway infrastructure saturation using constraint programming approach	Yes	[529]	2002	Computers in Railways VIII	10	0	0	1459	1771
Timpe02 Timpe02	C. Timpe	Solving planning and scheduling problems with combined integer and constraint programming	Yes	[598]	2002	OR Spectr.	18	42	0	1484	1772
JainG01 JainG01	V. Jain, Ignacio E. Grossmann	Algorithms for Hybrid MILP/CP Models for a Class of Optimization Problems	Yes	[327]	2001	INFORMS Journal on Computing	19	279	23	1373	1773
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	[432]	2001	Annals of Operations Research	17	11	0	1411	1774
Mason01 Mason01	Andrew J. Mason	Elastic Constraint Branching, the Wedelin/Carmen Lagrangian Heuristic and Integer Programming for Personnel Scheduling	Yes	[434]	2001	Annals of Operations Research	38	5	0	1412	1775
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	1273	1776
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	1280	1777
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	1285	1778
HeipckeCCS00 HeipckeCCS00	S. Heipcke, Y. Colombani, Cristina C. B. Cavalcante, Cid C. de Souza	Scheduling under Labour Resource Constraints	Yes	[301]	2000	Constraints An Int. J.	8	5	0	1364	1779
KorbaaYG00 KorbaaYG00	O. Korbaa, P. Yim, J. Gentina	Solving Transient Scheduling Problems with Constraint Programming	Yes	[356]	2000	Eur. J. Control	10	7	4	1383	1780
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	[414]	2000	Eur. J. Control	4	0	0	1405	1781
SakkoutW00 SakkoutW00	Hani El Sakkout, M. Wallace	Probe Backtrack Search for Minimal Perturbation in Dynamic Scheduling	Yes	[539]	2000	Constraints An Int. J.	30	73	0	1465	1782
SchildW00 SchildW00	K. Schild, J. Würtz	Scheduling of Time-Triggered Real-Time Systems	Yes	[542]	2000	Constraints An Int. J.	23	23	0	1467	1783
SimonisCK00 SimonisCK00	H. Simonis, P. Charlier, P. Kay	Constraint Handling in an Integrated Transportation Problem	Yes	[570]	2000	IEEE Intell. Syst.	7	11	5	1476	1784
SourdN00 SourdN00	F. Sourd, W. Nuijten	Multiple-Machine Lower Bounds for Shop-Scheduling Problems	Yes	[573]	2000	INFORMS Journal on Computing	12	7	14	1477	1785
TorresL00 TorresL00	P. Torres, P. Lopez	On Not-First/Not-Last conditions in disjunctive scheduling	Yes	[601]	2000	European Journal of Operational Research	12	26	13	1486	1786
BensanaLV99 BensanaLV99	E. Bensana, M. Lemaître, G. Verfaillie	Earth Observation Satellite Management	Yes	[91]	1999	Constraints An Int. J.	7	99	0	1297	1787
JainM99 JainM99	A. Jain, S. Meeran	Deterministic job-shop scheduling: Past, present and future	Yes	[326]	1999	European Journal of Operational Research	45	490	150	1374	1788
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	1286	1789
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	1294	1790
NuijtenP98 NuijtenP98	W. Nuijten, Claude Le Pape	Constraint-Based Job Shop Scheduling with \sc Ilog Scheduler	Yes	[484]	1998	J. Heuristics	16	42	0	1439	1791

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Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
PapaB98 PapaB98	Claude Le Pape, P. Baptiste	Resource Constraints for Preemptive Job-shop Scheduling	Yes	[500]	1998	Constraints An Int. J.	25	14	0	1448	1792
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	1319	1793
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	1329	1794
LammaMM97 LammaMM97	E. Lamma, P. Mello, M. Milano	A distributed constraint-based scheduler	Yes	[381]	1997	Artif. Intell. Eng.	15	11	7	1394	1795
Zhou97 Zhou97	J. Zhou	A Permutation-Based Approach for Solving the Job-Shop Problem	Yes	[673]	1997	Constraints An Int. J.	29	14	0	1509	1796
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	1299	1797
NuijtenA96 NuijtenA96	W. Nuijten, E. Aarts	A computational study of constraint satisfaction for multiple capacitated job shop scheduling	Yes	[485]	1996	European Journal of Operational Research	16	65	6	1438	1798
Wallace96 Wallace96	M. Wallace	Practical Applications of Constraint Programming	Yes	[635]	1996	Constraints An Int. J.	30	87	55	1494	1799
BeldiceanuC94 BeldiceanuC94	N. Beldiceanu, E. Contejean	Introducing Global Constraints in CHIP	Yes	[78]	1994	Mathematical and Computer Modelling	27	167	8	1292	1800
Pape94 Pape94	Claude Le Pape	Implementation of resource constraints in ILOG SCHEDULE: a library for the development of constraint-based scheduling systems	Yes	[498]	1994	Intelligent Systems Engineering	34	98	0	1449	1801
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	1268	1802
Tay92 Tay92	David B. H. Tay	COPS: A Constraint Programming Approach to Resource-Limited Project Scheduling	No	[588]	1992	Comput. J.	null	0	0	No	1803
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	1321	1804

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	stochastic, resource, setup-time, machine, scheduling, order, cmax, transportation, multi-objective	parallel machine	cycle	Python	Gurobi			real-world, generated instance, github	ant colony, genetic algorithm, machine learning, memetic algorithm, meta heuristic	1036	1580
AbreuAPNM21 [167]	21	make-span, open-shop, order, job, resource, machine, preempt, order scheduling, multi-agent, release-date, cmax, tardiness, preemptive, periodic, scheduling, completion-time, setup-time, no-wait, task, stochastic, job-shop, distributed, precedence, flow-shop, breakdown, multi-objective	parallel machine, OSSP, single machine, Open Shop Scheduling Problem	noOverlap, cycle	Python, C++	Cplex	automotive, medical, patient	oil industry	benchmark, generated instance, real-world	genetic algorithm, large neighborhood search, mat heuristic, meta heuristic, particle swarm, simulated annealing	1037	1581
AbreuN22 [168]	20	make-span, transportation, stochastic, flow-time, distributed, resource, job-shop, flow-shop, batch process, cmax, preempt, preemptive, order, tardiness, inventory, scheduling, completion-time, machine, setup-time, job, task, no-wait, open-shop, bi-objective, multi-objective	single machine, Open Shop Scheduling Problem, OSSP	cumulative, noOverlap, cycle	Python	Cplex	medical	chips industry	real-world, benchmark	Lagrangian relaxation, ant colony, genetic algorithm, large neighborhood search, mat heuristic, meta heuristic, particle swarm, simulated annealing	1012	1556
AbreuNP23 [169]	20	scheduling, order, make-span, completion-time, tardiness, earliness, two-machine scheduling, distributed, job-shop, flow-shop, resource, cmax, machine, job, blocking constraint, stochastic, setup-time, preempt, transportation, no-wait, open-shop, energy efficiency	OSSP, parallel machine, Open Shop Scheduling Problem	noOverlap, Blocking constraint	Python	Cplex, OPL	medical	oil industry	real-world, benchmark	time-tabling, genetic algorithm, large neighborhood search, mat heuristic, meta heuristic, simulated annealing	983	1527

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

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
AbreuPNF23 [3]	12	job, scheduling, distributed, job-shop, preemptive, due-date, machine, make-span, no-wait, flow-shop, completion-time, periodic, stochastic, setup-time, open-shop, tardiness, order, earliness, order scheduling, preempt, transportation, resource, bi-objective, multi-objective, sustainability	RCPSP, OSSP, parallel machine, Open Shop Scheduling Problem	noOverlap, cumulative, disjunctive	Python	Cplex, OPL	medical, robot		real-life, benchmark, real-world	NEH, ant colony, genetic algorithm, large neighborhood search, lazy clause generation, mat heuristic, meta heuristic, simulated annealing	984	1528
Adelgren2023 [7]	12	job-shop, transportation, periodic, setup-time, preempt, order, inventory, batch process, distributed, resource, completion-time, scheduling, machine, job, re-scheduling, task, preemptive, 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	MINLP, column generation	985	1529
AfsarVPG23 [8]	14	transportation, make-span, resource, job, precedence, stochastic, task, setup-time, job-shop, due-date, machine, activity, flow-shop, completion-time, open-shop, order, scheduling, preempt, bi-objective, multi-objective		disjunctive		Cplex			real-life, supplementary material, benchmark, real-world	genetic algorithm, memetic algorithm, meta heuristic, neural network, particle swarm, reinforcement learning	986	1530
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	simulated annealing	1258	1802

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

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
AkramNHRSA23 [13]	16	resource, completion-time, scheduling, machine, task, periodic, preempt, order, distributed		cycle, bin-packing	Python	OR-Tools	medical, agriculture		benchmark	GRASP, ant colony, deep learning, genetic algorithm, machine learning, reinforcement learning, simulated annealing	987	1531
AlfieriGPS23 [15]	13	flow-shop, job, stochastic, flow-time, completion-time, Benders Decomposition, precedence, earliness, scheduling, machine, transportation, setup-time, single-machine scheduling, order, tardiness, make-span, distributed, no-wait, job-shop, resource, inventory, multi-objective	single machine, parallel machine		Java	Cplex	surgery, patient		benchmark	NEH, ant colony, mat heuristic, memetic algorithm, meta heuristic, particle swarm	988	1532
AntunesABD20 [20]	31	precedence, earliness, scheduling, transportation, periodic, order, distributed, lateness, activity, due-date, stochastic, re-scheduling, task, Benders Decomposition, planned maintenance		bin-packing		Cplex	maintenance scheduling, workforce scheduling	electricity industry	real-world, industrial partner	column generation, genetic algorithm, meta heuristic	1051	1595
ArkhipovBL19 [25]	10	scheduling, machine, job, cmax, task, preemptive, completion-time, make-span, release-date, precedence, job-shop, preempt, order, lateness, resource	psplib, parallel machine, RCPSP, Resource-constrained Project Scheduling Problem	cycle, Cumulatives constraint, cumulative, disjunctive		Z3			benchmark	sweep, time-tabling	1070	1614
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						simulated annealing	1232	1776
AstrandJZ20 [38]	13	open-shop, task, stochastic, precedence, flow-shop, make-span, order, job, activity, scheduling, completion-time, resource, machine, periodic, job-shop, re-scheduling, setup-time, due-date, breakdown, net present value, unavailability	parallel machine, Resource-constrained Project Scheduling Problem	disjunctive, alldifferent, Disjunctive constraint, cycle	C++	Gecode	robot	potash industry, mining industry, mineral industry	benchmark, real-life, real-world	genetic algorithm, large neighborhood search, meta heuristic	1052	1596

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

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
BadicaBI20 [39]	17	manpower, resource, precedence, scheduling, distributed, task, machine, activity, make-span, completion-time, stochastic, order	psplib, Resource-constrained Project Scheduling Problem	Arithmetic constraint, bin-packing, cycle, Reified constraint	Prolog	Gecode, ECLiPSe	business process		real-world, benchmark	meta heuristic	1053	1597
BajestaniB13 [42]	36	re-scheduling, Benders Decomposition, scheduling, machine, stochastic, transportation, order, tardiness, preemptive, make-span, precedence, earliness, Logic-Based Benders Decomposition, job-shop, resource, periodic, setup-time, preempt, single-machine scheduling, inventory, due-date, job, breakdown, reactive scheduling	single machine, parallel machine	IloPulse, Cardinality constraint, cumulative, IloAlwaysIn, GCC constraint, alwaysIn, circuit		Cplex	railway, maintenance scheduling, aircraft			machine learning, meta heuristic, reinforcement learning	1143	1687
BajestaniB15 [43]	16	completion-time, Benders Decomposition, scheduling, machine, stochastic, flow-time, order, tardiness, preemptive, make-span, precedence, sequence dependent setup, Logic-Based Benders Decomposition, job-shop, resource, activity, periodic, setup-time, preempt, single-machine scheduling, due-date, distributed, flow-shop, job, breakdown, planned maintenance, unavailability	single machine	disjunctive, cumulative, Disjunctive constraint, circuit		Cplex	railway, semiconductor, maintenance scheduling, robot	semiconductor industry	real-world	genetic algorithm, meta heuristic	1123	1667
BandaSC11 [171]	18	precedence, order, scheduling, task				Ilog Solver			benchmark, CSPlib, random instance		1161	1705
BaptisteB18 [46]	10	resource, machine, preempt, preemptive, scheduling, task, manpower, precedence, make-span, order, job	parallel machine, psplib, RCPSP, Resource-constrained Project Scheduling Problem	cumulative, bin-packing		CHIP				time-tabling, edge-finding, edge-finder, Lagrangian relaxation, lazy clause generation	1086	1630
BaptisteP00 [49]	21	resource, preempt, cmax, preemptive, 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	1233	1777
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		1177	1721

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

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
BartakS11 [57]	5	scheduling, task, multi-agent, distributed, resource, order	Resource-constrained Project Scheduling Problem	cumulative		OPL		software industry	random instance, real-world, real-life		1162	1706
BartakSR10 [58]	31	scheduling, preempt, make-span, job, precedence, release-date, stochastic, distributed, task, job-shop, preemptive, 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, meeting scheduling		real-life, real-world	not-last, edge-finding, sweep, not-first, machine learning, meta heuristic	1178	1722
Beck07 [64]	29	stochastic, order, scheduling, machine, job-shop, tardiness, periodic, activity, flow-shop, precedence, make-span, resource, job		Disjunctive constraint, disjunctive		Ilog Scheduler			benchmark	genetic algorithm, machine learning, meta heuristic, systematic local search	1203	1747
BeckF00 [68]	51	transportation, preemptive, precedence, job-shop, due-date, machine, preempt, activity, inventory, release-date, resource, task, job, stochastic, order, make-span, scheduling, reactive scheduling	single machine	cumulative, disjunctive, Disjunctive constraint, Cardinality constraint			robot		real-world, benchmark	not-last, edge-finding, not-first	1234	1778
BeckF98' [67]	30	preemptive, 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	circuit, cumulative, disjunctive	Prolog		robot, business process		real-world, benchmark	edge-finding, column generation, deep learning, genetic algorithm, machine learning, simulated annealing	1245	1789
BeckFW11 [66]	14	cmax, resource, job-shop, precedence, preempt, order, scheduling, completion-time, machine, job, periodic, make-span, breakdown		disjunctive, table constraint, cumulative	C++	Ilog Scheduler			benchmark, real-world	machine learning, meta heuristic, reinforcement learning, simulated annealing	1163	1707

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

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
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, breakdown		disjunctive		Ilog Scheduler, Ilog Solver, Cplex	hoist		benchmark	edge-finder, column generation, genetic algorithm	1219	1763
BeckW07 [73]	50	job-shop, machine, preempt, re-scheduling, activity, distributed, flow-shop, no preempt, resource, task, tardiness, job, stochastic, order, make-span, scheduling, flow-time, precedence, multi-objective, reactive scheduling	RCPSP, single machine, Resource-constrained Project Scheduling Problem	Balance constraint		Ilog Scheduler	robot, telescope		benchmark	edge-finder, edge-finding, column generation	1204	1748
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	genetic algorithm, meta heuristic	1038	1582
BegB13 [75]	23	scheduling, machine, task, completion-time, re-scheduling, resource, order, distributed, breakdown	TMS	cycle			pipeline		benchmark		1144	1688
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		1256	1800
BeldiceanuCDP11 [80]	24	cmax, preempt, task, resource, preemptive, order, scheduling		geost, disjunctive, diffn, cumulative, bin-packing	Prolog	SICStus, CHIP	rectangle-packing, perfect-square		benchmark	sweep, edge-finding, energetic reasoning	1164	1708
BelhadjiI98 [83]	9	precedence, release-date, preemptive, order, job, scheduling, resource, machine, preempt, due-date, job-shop, task	JSSP, Temporal Constraint Satisfaction Problem, TCSP	Disjunctive constraint, disjunctive					real-life		1246	1790
BenediktMH20 [86]	19	job, re-scheduling, task, preemptive, scheduling, machine, preempt, single-machine scheduling, order, job-shop, energy efficiency, sustainability	single machine	endBeforeStart, noOverlap		Gurobi	robot		benchmark, random instance, github, generated instance		1054	1598

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

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
BeniniLMR11 [90]	27	resource, one-machine scheduling, Benders Decomposition, Logic-Based Benders Decomposition, task, precedence, make-span, order, activity, machine, preempt, release-date, tardiness, preemptive, periodic, scheduling, re-scheduling, energy efficiency	SCC, single machine	table constraint, circuit, cumulative		Ilog Scheduler, Cplex	pipeline		real-world, benchmark, instance generator	column generation, machine learning	1165	1709
BensanaLV99 [91]	7	order		cycle		Ilog Solver, Cplex	satellite, earth observation		benchmark		1243	1787
BidotVLB09 [94]	30	task, job-shop, due-date, machine, activity, inventory, tardiness, order, re-scheduling, make-span, resource, job, precedence, release-date, periodic, stochastic, scheduling, distributed, breakdown, reactive scheduling	JSSP, Resource-constrained Project Scheduling Problem	cumulative, disjunctive	C++	Ilog Scheduler, OPL	robot, telescope		real-world, real-life	edge-finder, edge-finding	1187	1731
BlazewiczDP96 [126]	33	stochastic, distributed, due-date, inventory, preempt, make-span, task, job-shop, precedence, setup-time, preemptive, release-date, resource, flow-shop, one-machine scheduling, no-wait, activity, job, order, completion-time, single-machine scheduling, scheduling, machine, lateness	parallel machine, single machine	disjunctive, cumulative, cycle, Disjunctive constraint		OPL, CHIP	robot		benchmark	energetic reasoning, edge-finding, Lagrangian relaxation, genetic algorithm, machine learning, neural network, simulated annealing	1253	1797
BlomBPS14 [99]	19	task, distributed, resource, stochastic, transportation, scheduling, Benders Decomposition, precedence, order, net present value		disjunctive		Cplex	offshore	mineral industry	industry partner, benchmark	MINLP	1135	1679
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	Lagrangian relaxation, MINLP, genetic algorithm	1110	1654
BocewiczBB09 [101]	19	precedence, scheduling, machine, transportation, periodic, order, tardiness, distributed, job-shop, resource, multi-agent, job, task, completion-time		cycle			robot			not-last	1188	1732
Bonfietti16 [106]	13	task, distributed, precedence, order, activity, scheduling, resource, periodic		disjunctive, cumulative, circuit	C++		pipeline		benchmark		1111	1655

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, periodic, distributed, machine, job-shop, cyclic scheduling	RCPSP, Partial Order Schedule	circuit, cumulative, cycle		Ilog Solver	pipeline, hoist, medical, robot		benchmark, real-world, generated instance, industrial instance	time-tabling, sweep	1136	1680
BorghesiBLMB18 [116]	13	job, re-scheduling, distributed, scheduling, order, make-span, resource, activity, task, machine		cumulative, cycle			super-computer, high performance computing		benchmark, real-life	machine learning	1087	1631
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, maintenance scheduling, nurse, workforce scheduling	printing industry	real-world, benchmark	column generation, genetic algorithm, large neighborhood search, meta heuristic	1013	1557
BridiBLMB16 [121]	14	make-span, job, scheduling, resource, machine, tardiness, re-scheduling, order, activity, stochastic, distributed, Pareto, energy efficiency, sustainability		circuit, cycle, cumulative			medical, super-computer		real-life, real-world	genetic algorithm, large neighborhood search, machine learning, meta heuristic	1112	1656
Caballero23 [128]	1	resource, scheduling	RCPSP, Resource-constrained Project Scheduling Problem								989	1533
CampeauG22 [129]	18	task, activity, make-span, completion-time, precedence, stochastic, order, resource, job, scheduling, net present value	RCPSP, RCPSPDC, Resource-constrained Project Scheduling Problem	noOverlap, endBeforeStart, cumulative, alwaysIn, cycle	Python	Cplex		mining industry	real-life, real-world	edge-finding, column generation	1014	1558
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, large neighborhood search, machine learning, meta heuristic, reinforcement learning	1189	1733

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

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
CauwelaertDS20 [143]	19	completion-time, job, resource, activity, machine, preemptive, 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, Lagrangian relaxation	1055	1599
CauwelaertLS18 [142]	36	scheduling, order, task, job, resource, activity, machine, job-shop	psplib, RCPSP, Resource-constrained Project Scheduling Problem	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, large neighborhood search, meta heuristic	1088	1632
ChenGPSH10 [147]	10	activity, make-span, job, precedence, Benders Decomposition, stochastic, job-shop, due-date, open-shop, completion-time, order, lateness, producer/consumer, re-scheduling, resource, scheduling, preempt, manpower, task, preemptive, 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, genetic algorithm, neural network, particle swarm	1179	1723
CireCH16 [151]	12	tardiness, scheduling, Benders Decomposition, task, order, make-span, stochastic, resource, Logic-Based Benders Decomposition, breakdown		cumulative		Cplex				mat heuristic	1113	1657
CobanH11 [154]	28	stochastic, completion-time, machine, job, task, release-date, make-span, distributed, resource, tardiness, Benders Decomposition, Logic-Based Benders Decomposition, preempt, due-date, re-scheduling, preemptive, order, scheduling	single machine	cumulative, circuit, noOverlap		OPL, Cplex			random instance	time-tabling	1166	1710

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
ColT22 [161]	19	no preempt, due-date, distributed, preempt, scheduling, preemptive, machine, batch process, open-shop, job-shop, lateness, task, tardiness, order, one-machine scheduling, transportation, flow-shop, completion-time, precedence, make-span, resource, job, setup-time, breakdown, multi-objective	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	genetic algorithm, large neighborhood search, machine learning, memetic algorithm, particle swarm, simulated annealing	1015	1559
CorreaLR07 [159]	20	task, machine, make-span, precedence, Benders Decomposition, order, transportation, release-date, scheduling, Logic-Based Benders Decomposition	parallel machine	disjunctive		Cplex, OPL, Choco Solver, Ilog Solver	container terminal, workforce scheduling	heavy industry	real-world	column generation	1205	1749
CzerniachowskaWZ23 [160	14	periodic, make-span, scheduling, setup-time, transportation, flow-shop, activity, machine, order, completion-time, task, job, resource, job-shop, Pareto, multi-objective, sustainability	JSSP, PTC, parallel machine	endBeforeStart, noOverlap		CPO, OPL, Cplex	robot, automotive	manufacturing industry, pharmaceutical industry, automotive industry	benchmark, Roadef, real-world	meta heuristic, particle swarm	990	1534
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, workforce scheduling		real-life, real-world, benchmark		1249	1793
DemasseyAM05 [177]	18	precedence, job-shop, preempt, order, resource, activity, scheduling, machine, job, task, preemptive, completion-time, make-span, release-date	psplib, RCPSP, single machine, Resource-constrained Project Scheduling Problem	cumulative, disjunctive, cycle		Cplex			benchmark	edge-finding, energetic reasoning, Lagrangian relaxation, column generation	1214	1758
DincbasSH90 [185]	19	task, job-shop, distributed, precedence, order, job, machine, scheduling, resource		circuit, Disjunctive constraint, disjunctive	Prolog	CHIP, OPL			real-life		1260	1804
DoulabiRP16 [191]	17	stochastic, distributed, order, scheduling, resource, machine, single-machine scheduling, 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	column generation, genetic algorithm	1114	1658

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
ElciOH22 [196]	21	resource, Logic-Based Benders Decomposition, due-date, order, tardiness, scheduling, Benders Decomposition, job, task, make-span, transportation, stochastic, single-machine scheduling, machine, distributed	single machine	cumulative, disjunctive	Julia	Cplex	surgery, patient, crew-scheduling, aircraft, operating room		benchmark, random instance, real-life		1016	1560
EmdeZD22 [200]	30	flow-time, distributed, resource, tardiness, inventory, scheduling, Benders Decomposition, completion-time, precedence, batch process, task, open-shop, order, stochastic, machine, job, no-wait, job-shop, release-date, Logic-Based Benders Decomposition, make-span, transportation, single-machine scheduling, bi-objective	single machine, parallel machine	noOverlap, bin-packing	C	Cplex	automotive, pipeline, drone, semi-conductor, yard crane	automotive industry	random instance, github		1017	1561
EscobetPQPRA19 [202]	10	task, release-date, job, resource, activity, periodic, distributed, machine, job-shop, scheduling, order, batch process, due-date, Pareto, multi-objective, reactive scheduling		circuit, cycle, alternative constraint, noOverlap		OPL, Cplex	energy-price, dairy	dairy industry, food industry, manufacturing industry		MINLP, meta heuristic	1072	1616
EtminaniesfahaniGNMS22	10	job, order, job-shop, preempt, machine, earliness, precedence, cmax, open-shop, resource, tardiness, preemptive, stochastic, activity, make-span, task, scheduling, net present value	RCPSP, psplib, parallel machine, Resource-constrained Project Scheduling Problem		Python	OR-Tools, Cplex	crew-scheduling, aircraft		real-world	Lagrangian relaxation, ant colony, genetic algorithm, large neighborhood search, lazy clause generation, mat heuristic, memetic algorithm, meta heuristic, particle swarm	1018	1562
EvenSH15a [205]	16	distributed, resource, transportation, machine, Benders Decomposition, order, preempt, preemptive, scheduling, completion-time, task		cumulative, disjunctive, Disjunctive constraint	Java	Choco Solver, OPL	emergency service, evacuation		real-world, real-life	sweep, ant colony, column generation, mat heuristic, meta heuristic	1124	1668

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
FahimiOQ18 [207]	22	completion-time, batch process, open-shop, order, lateness, preempt, sequence dependent setup, resource, job, precedence, scheduling, distributed, task, setup-time, job-shop, preempt, due-date, machine, make-span	psplib, RCPSP, Resource-constrained Project Scheduling Problem	AllDiff constraint, cumulative, disjunctive, Disjunctive constraint, alldifferent, Cumulatives constraint		Choco Solver			benchmark, random instance	time-tabling, sweep, edge-finding, not-first, not-last, lazy clause generation	1089	1633
FalaschiGMP97 [209]	27	order, scheduling		Arithmetic constraint	Prolog						1250	1794
FallahiAC20 [210]	18	order, resource, scheduling, transportation, task		cycle		OR-Tools	nurse, robot, medical, container terminal, workforce scheduling		github, real-life	sweep, Lagrangian relaxation, column generation, large neighborhood search, memetic algorithm, meta heuristic, neural network, simulated annealing	1056	1600
FanXG21 [211]	15	flow-time, tardiness, job, stochastic, order, batch process, machine, completion-time, distributed, precedence, setup-time, job-shop, due-date, no preempt, preempt, one-machine scheduling, earliness, task, flow-shop, resource, make-span, scheduling, breakdown, multi-objective, reactive scheduling, unavailability	single machine, parallel machine	cycle	Python, Java	Cplex, ECLiPSe, Gurobi	semiconductor	manufacturing industry	benchmark	max-flow, ant colony, machine learning, meta heuristic, neural network, simulated annealing	1040	1584
FarsiTM22 [212]	14	completion-time, tardiness, earliness, periodic, Logic-Based Benders Decomposition, distributed, task, resource, continuous-process, re-scheduling, stochastic, no-wait, scheduling, Benders Decomposition, make-span, Pareto, bi-objective, multi-objective		alldifferent, circuit		Cplex	physician, patient, operating room, surgery, robot, medical, nurse		supplementary material	time-tabling, ant colony, genetic algorithm, meta heuristic	1019	1563

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

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
Fatemi-AnarakiTFV23 [213]	15	machine, cmax, resource, no-wait, single-machine scheduling, order, completion-time, scheduling, job, transportation, setup-time, re-scheduling, distributed, job-shop, task, make-span, multi-agent, breakdown, cyclic scheduling	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, ant colony, mat heuristic, meta heuristic	992	1536
FetgoD22 [215]	32	precedence, cmax, preempt, order, scheduling, completion-time, task, make-span, resource	RCPSP, CuSP, Resource-constrained Project Scheduling Problem	cumulative	Java, Python	CHIP, Choco Solver			benchmark, real-world	edge-finder, time-tabling, not-first, not-last, energetic reasoning, edge-finding, sweep, lazy clause generation	1020	1564
ForbesHJST24 [218]	15	Logic-Based Benders Decomposition, job-shop, order, distributed, resource, Benders Decomposition, scheduling, machine, job, stochastic, re-scheduling, task, make-span, release-date		cumulative	Python	Gurobi, OPL	emergency service, surgery, patient, operating room		benchmark, real-life, github	genetic algorithm	980	1524
GarridoAO09 [229]	30	scheduling, resource, task, re-scheduling, precedence, make-span, order, multi-objective		disjunctive	Java	OPL, CPO, Choco Solver			benchmark		1190	1734
GarridoOS08 [230]	11	scheduling, resource, task, make-span, order, activity, machine			Java, C	CPO, Choco Solver			real-world		1197	1741
GedikKEK18 [235]	11	resource, job, scheduling, task, preemptive, machine, make-span, completion-time, stochastic, cmax, setup-time, due-date, tardiness, order, preempt, sequence dependent setup, transportation, breakdown, multi-objective	single machine, parallel machine, PMSP	noOverlap, cumulative		Cplex	nurse, medical	manufacturing industry	benchmark	ant colony, column generation, genetic algorithm, large neighborhood search, meta heuristic, simulated annealing	1090	1634
GoelSHFS15 [250]	12	precedence, inventory, setup-time, activity, order, resource, scheduling, task, transportation, machine, unavailability		noOverlap, alwaysEqual constraint, alwaysIn, cumulative, disjunctive		OPL, Cplex, CPO	pipeline	gas industry, transportation industry		large neighborhood search	1125	1669

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

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
GokPTGO23 [275]	36	precedence, order, make-span, completion-time, tardiness, activity, distributed, task, resource, multi-agent, machine, job, re-scheduling, stochastic, inventory, job-shop, setup-time, transportation, scheduling, Pareto, bi-objective, multi-objective	RCPSP, Resource-constrained Project Scheduling Problem	cumulative, cycle, circuit, alldifferent, disjunctive		OPL	offshore, aircraft, workforce scheduling	airline industry	github, real-world	genetic algorithm, large neighborhood search, machine learning, meta heuristic, reinforcement learning	994	1538
GokgurHO18 [252]	17	task, setup-time, job-shop, preemptive, 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, semi-conductor		real-world, real-life	edge-finding, energetic reasoning, not-first, not-last, genetic algorithm, mat heuristic, meta heuristic	1091	1635
GoldwaserS18 [254]	32	scheduling, machine, transportation, order, Logic-Based Benders Decomposition, resource, due-date, flow-shop, task, Benders Decomposition		cumulative	Python	Gurobi, CHIP, Gecode, Chuffed	torpedo	steel industry	github, generated instance, instance generator, benchmark	sweep, time-tabling, column generation, lazy clause generation, simulated annealing	1092	1636
GombolayWS18 [256]	20	machine, job, re-scheduling, open-shop, task, preemptive, make-span, precedence, Logic-Based Benders Decomposition, job-shop, periodic, setup-time, multi-agent, preempt, order, distributed, flow-shop, resource, completion-time, Benders Decomposition, scheduling, breakdown	OSP, Resource-constrained Project Scheduling Problem	cumulative, disjunctive	Java	Gurobi, OPL	aircraft, robot, crew-scheduling, patient		real-world, instance generator, benchmark	edge-finding, genetic algorithm, meta heuristic, simulated annealing	1093	1637
GomesM17 [258]	11	distributed, resource, release-date, Logic-Based Benders Decomposition, due-date, order, tardiness, inventory, scheduling, Benders Decomposition, completion-time, setup-time, job, make-span, transportation, stochastic, single-machine scheduling, machine, Pareto	parallel machine, PMSP, single machine	cycle	C++	Cplex				Lagrangian relaxation, ant colony, genetic algorithm, meta heuristic, simulated annealing	1103	1647

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

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
GrimesH15 [261]	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, preemptive, 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, genetic algorithm, large neighborhood search, memetic algorithm, meta heuristic, particle swarm, simulated annealing	1126	1670
GrimesIOS14 [263]	16	completion-time, resource, machine, preempt, periodic, re-scheduling, due-date, task, stochastic, distributed, preemptive, order, activity, scheduling, sustainability		disjunctive		CHIP, Cplex	energy-price, real-time pricing, HVAC		real-world, real-life	machine learning	1137	1681
GuoZ23 [272]	29	activity, order, sequence dependent setup, make-span, Logic-Based Benders Decomposition, resource, job, transportation, setup-time, stochastic, Benders Decomposition, distributed, scheduling, inventory, machine, job-shop, task, multi-objective, unavailability	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	ant colony, column generation, machine learning	995	1539
GurEA19 [682]	24	order, resource, scheduling, stochastic, re-scheduling, completion-time, distributed, job-shop, job, Pareto, multi-objective				Cplex	patient, medical, surgery, operating room	service industry	real-life	Lagrangian relaxation, ant colony, meta heuristic	1073	1617
GurPAE23 [273]	25	re-scheduling, order, scheduling, stochastic, machine, distributed, resource, inventory, bi-objective, multi-objective		cumulative		OPL, Cplex	physician, surgery, patient, nurse, operating room, COVID		real-life	machine learning, meta heuristic, neural network	996	1540
GuyonLPR12 [274]	25	precedence, Benders Decomposition, Logic-Based Benders Decomposition, order, cmax, resource, release-date, scheduling, preempt, manpower, task, job-shop, preemptive, machine, activity, make-span, flow-shop, job, completion-time, unavailability	parallel machine, single machine	disjunctive, cycle		Cplex	satellite		generated instance, benchmark, instance generator	time-tabling, energetic reasoning, Lagrangian relaxation, column generation	1150	1694

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

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
HachemiGR11 [276]	16	precedence, make-span, scheduling, resource, Benders Decomposition, Logic-Based 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		column generation, meta heuristic	1168	1712
Ham18 [277]	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		genetic algorithm, meta heuristic	1094	1638
Ham18a [278]	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	meta heuristic	1095	1639
HamC16 [280]	6	scheduling, machine, batch process, cmax, job-shop, task, order, completion-time, sequence dependent setup, precedence, make-span, resource, job, transportation, setup-time, bi-objective, multi-objective	FJS	alwaysEqual constraint, cycle, endBeforeStart		Cplex, OPL	semiconductor	pharmaceutical industry	benchmark	genetic algorithm, meta heuristic, particle swarm	1115	1659
HamPK21 [279]	12	flow-shop, resource, make-span, scheduling, single-machine scheduling, sequence dependent setup, tardiness, order, machine, completion-time, distributed, precedence, cmax, setup-time, job-shop, re-scheduling, task, job, bi-objective, multi-objective	single machine, parallel machine, FJS	noOverlap, cycle, endBeforeStart		OPL, Cplex	robot, semiconductor, agriculture		github, benchmark	Lagrangian relaxation, ant colony, genetic algorithm, meta heuristic, particle swarm, simulated annealing, swarm intelligence	1041	1585
HarjunkoskiG02 [282]	20	job, due-date, scheduling, order, resource, setup-time, activity, task, single-stage scheduling, machine, release-date, flow-shop, job-shop		cumulative		ECLiPSe, Ilog Scheduler, CHIP, Ilog Solver, Cplex, OPL				genetic algorithm, simulated annealing	1224	1768

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 [283]	33	distributed, make to stock, machine, re-scheduling, Benders Decomposition, precedence, earliness, order, job-shop, Logic-Based Benders Decomposition, lateness, resource, task, release-date, activity, setup-time, inventory, due-date, job, continuous-process, periodic, batch process, scheduling, transportation, stochastic, manpower, make-span, tardiness, Pareto, breakdown, cyclic scheduling, multi-objective, reactive scheduling, unavailability	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	MINLP, column generation, large neighborhood search, meta heuristic, particle swarm, simulated annealing	1138	1682
HauderBRPA20 [287]	14	setup-time, order, tardiness, make-span, no-wait, job-shop, resource, activity, inventory, due-date, scheduling, flow-shop, job, stochastic, task, completion-time, precedence, earliness, machine, transportation, manpower, bi-objective, breakdown, multi-objective	RCPSP, RCMPSP, FJS, Resource-constrained Project Scheduling Problem	cumulative, cycle		OPL, Cplex	aircraft	automobile industry, food-processing industry, steel industry, processing industry	real-world, industry partner, benchmark, supplementary material	genetic algorithm, meta heuristic, particle swarm	1058	1602
HebrardHJMPV16 [290]	10	online scheduling, cmax, scheduling, order, make-span, completion-time, resource, task, distributed, machine, job	parallel machine	cumulative			satellite, earth observation		industrial partner		1116	1660
HeckmanB11 [293]	20	tardiness, order, resource, job, scheduling, job-shop, machine, activity, make-span, flow-shop, precedence, Pareto		disjunctive, Completion constraint		Ilog Scheduler			real-world, benchmark	edge-finding, edge-finder, genetic algorithm, meta heuristic, simulated annealing	1169	1713
HeinzNVH22 [299]	16	re-scheduling, resource, scheduling, preempt, sequence dependent setup, task, preemptive, machine, activity, make-span, job, precedence, distributed, setup-time, flow-shop, completion-time, order, bi-objective, unavailability	parallel machine	cumulative, noOverlap, alternative constraint		Gurobi	robot, crew-scheduling, high performance computing		real-world, generated instance, benchmark, gitlab	Lagrangian relaxation, genetic algorithm, meta heuristic	1021	1565

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

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
HeinzSB13 [298]	36	preempt, scheduling, precedence, order, completion-time, release-date, due-date, resource, machine, job	single machine, psplib, RCPSP, Resource-constrained Project Scheduling Problem	disjunctive, cumulative		MiniZinc, SCIP, Cplex	satellite		benchmark	edge-finding, time-tabling	1145	1689
HeinzSSW12 [296]	12	inventory, order, task		bin-packing		Cplex	steel mill	steel industry, process industry	real-world, CSPlib	column generation, large neighborhood search	1151	1695
HeipckeCCS00 [301]	8	resource, activity, completion-time, due-date, scheduling, machine, job, task, preemptive, make-span, release-date, precedence, job-shop, preempt, order	single machine, RCPSP, Resource-constrained Project Scheduling Problem	disjunctive, cumulative, Disjunctive constraint					benchmark, instance generator		1235	1779
Hooker05 [310]	17	machine, job, task, release-date, make-span, distributed, resource, Logic-Based Benders Decomposition, precedence, due-date, order, tardiness, scheduling, Benders Decomposition		disjunctive, cumulative, circuit		OPL, Ilog Scheduler, Cplex			random instance	edge-finding, MINLP	1215	1759
Hooker06 [312]	19	machine, job, task, release-date, make-span, resource, Logic-Based Benders Decomposition, precedence, due-date, order, tardiness, scheduling, Benders Decomposition		disjunctive, cumulative, circuit		OPL, Ilog Scheduler, Cplex			random instance	MINLP	1209	1753
Hooker07 [313]	29	machine, job, task, activity, release-date, make-span, distributed, resource, Logic-Based Benders Decomposition, precedence, due-date, order, tardiness, inventory, scheduling, Benders Decomposition		disjunctive, cumulative, circuit		OPL, Ilog Scheduler, Cplex			random instance, generated instance	edge-finding, MINLP	1206	1750

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

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
HookerH17 [318]	24	preemptive, scheduling, Logic-Based Benders Decomposition, task, multi-agent, machine, job, stochastic, sequence dependent setup, one-machine scheduling, job-shop, preempt, flow-shop, resource, transportation, open-shop, Benders Decomposition, order, tardiness, activity, setup-time, release-date, multi-objective, net present value	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, Lagrangian relaxation, MINLP, column generation, neural network	1104	1648
HookerO03 [317]	28	scheduling, Logic-Based Benders Decomposition, task, machine, job, one-machine scheduling, due-date, resource, Benders Decomposition, order, release-date		circuit, cumulative, disjunctive		Ilog Scheduler, OPL, Cplex			generated instance		1220	1764
HoundjiSW19 [320]	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, column generation	1074	1618
HubnerGSV21 [322]	22	completion-time, resource, due-date, no-wait, task, stochastic, transportation, precedence, order, job, inventory, activity, machine, preempt, cmax, tardiness, make-span, preemptive, scheduling, reactive scheduling	RCPSPDC, RCPSP, Resource-constrained Project Scheduling Problem	cycle, cumulative, alternative constraint, endBeforeStart	C	Gurobi, Cplex, OPL	automotive	dismantling industry	benchmark, real-life	genetic algorithm, large neighborhood search, mat heuristic, meta heuristic, simulated annealing	1042	1586

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
IsikYA23 [325]	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, bi-objective, breakdown, energy efficiency, multi-objective	HFS, single machine, parallel machine	circuit, noOverlap, endBeforeStart, Calendar constraint, Blocking constraint, cumulative		OPL, Cplex	medical, robot	steel industry	benchmark, real-life, real-world, generated instance	energetic reasoning, NEH, GRASP, Lagrangian relaxation, ant colony, genetic algorithm, machine learning, mat heuristic, memetic algorithm, meta heuristic, neural network, particle swarm, reinforcement learning, simulated annealing	997	1541
JainG01 [327]	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			MINLP, column generation	1229	1773
JainM99 [326]	45	flow-shop, preempt, one-machine scheduling, task, job, open-shop, order, release-date, resource, make-span, scheduling, single-machine scheduling, precedence, cmax, tardiness, stochastic, due-date, machine, re-scheduling, completion-time, distributed, preemptive, inventory, lateness, job-shop	single machine	disjunctive, cycle		OPL	robot, semi-conductor		benchmark, real-world, real-life	edge-finder, GRASP, Lagrangian relaxation, genetic algorithm, machine learning, memetic algorithm, meta heuristic, neural network, simulated annealing	1244	1788
Jans09 [328]	24	multi-agent, distributed, inventory, machine, order, scheduling, sequence dependent setup, resource, job, setup-time	single machine, parallel machine			Cplex	offshore, business process	tire industry, fashion industry, process industry, foundry industry	benchmark	column generation, meta heuristic	1191	1735

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
JuvinHL22 [333]	32	Benders Decomposition, precedence, order, activity, setup-time, release-date, preemptive, scheduling, Logic-Based Benders Decomposition, make-span, completion-time, task, cmax, machine, job, re-scheduling, distributed, job-shop, preempt, flow-shop, resource, Pareto	FJS, parallel machine, single machine, JSSP	disjunctive, Disjunctive constraint, noOverlap, endBeforeStart, circuit, cumulative		Cplex, CPO			benchmark	genetic algorithm, meta heuristic, simulated annealing	1023	1567
JuvinHL23a [335]	17	task, job-shop, preemptive, machine, activity, make-span, flow-shop, precedence, Benders Decomposition, stochastic, setup-time, order, preempt, re-scheduling, resource, job, release-date, scheduling, distributed, Logic-Based Benders Decomposition, Pareto	FJS, JSSP, parallel machine, single machine	noOverlap, endBeforeStart, bin-packing, cumulative, circuit, disjunctive, Disjunctive constraint		Cplex, CPO	vaccine, COVID, drone, operating room		benchmark	genetic algorithm, machine learning, meta heuristic, simulated annealing	998	1542
Kameugne15 [338]	2	resource, scheduling, task, preemptive, completion-time, preempt		cumulative						not-last, edge-finding, not-first	1127	1671
KameugneFSN14 [342]	27	completion-time, job-shop, preemptive, release-date, resource, job, order, scheduling, precedence, preempt, make-span, task	RCPSP, psplib, CuSP, Resource-constrained Project Scheduling Problem	cumulative, disjunctive		CHIP, Gecode			benchmark, random instance	edge-finding, energetic reasoning, not-last, not-first, edge-finder, time-tabling	1139	1683
KelbelH11 [345]	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, large neighborhood search	1170	1714
KhayatLR06 [347]	15	job-shop, due-date, order, cmax, resource, scheduling, preempt, task, preemptive, machine, activity, make-span, job, precedence, setup-time				OPL, Cplex			real-life, benchmark	genetic algorithm	1210	1754
KoehlerBFFHPSSS21 [352	51	flow-shop, scheduling, single-machine scheduling, job, make-span, tardiness, resource, precedence, job-shop, order, lateness, task, machine, one-machine scheduling, flow-time, multi-objective	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	ant colony, genetic algorithm, particle swarm, simulated annealing	1043	1587
KorbaaYG00 [356]	10										1236	1780

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
KovacsB08 [359]	7	order, tardiness, activity, preempt, release-date, single-machine scheduling, scheduling, completion-time, job, preemptive, resource, machine	single machine	disjunctive, Completion constraint, Disjunctive constraint, bin-packing, cumulative, Cardinality constraint, cycle, Regular constraint		Ilog Solver, Ilog Scheduler	aircraft		benchmark	sweep, genetic algorithm	1198	1742
KovacsB11 [360]	24	precedence, order, tardiness, activity, preempt, release-date, earliness, single-machine scheduling, scheduling, make-span, completion-time, flow-time, job, preemptive, distributed, due-date, job-shop, flow-shop, resource, machine	parallel machine, single machine, Resource-constrained Project Scheduling Problem	disjunctive, Completion constraint, Disjunctive constraint, cumulative, Cardinality constraint, cycle, Regular constraint, Channeling constraint	C++	Ilog Solver, Ilog Scheduler			benchmark	edge-finding, column generation	1171	1715
KovacsK11 [362]	24	stochastic, order, tardiness, release-date, earliness, scheduling, completion-time, task, job, Logic-Based Benders Decomposition, sequence dependent setup, due-date, job-shop, flow-shop, resource, transportation, machine, Benders Decomposition, Pareto, breakdown	single machine	Reified constraint, cycle	C++	Ilog Solver, Gecode, Cplex					1172	1716
KreterSS17 [367]	31	order, preempt, resource, scheduling, task, preemptive, machine, activity, make-span, completion-time, precedence, periodic, unavailability	RCPSP, parallel machine, Resource-constrained Project Scheduling Problem	IloPulse, alwaysIn, cumulative, diffn, IloForbidEnd, Pulse constraint, cycle, IloAlwaysIn, Element constraint, Reified constraint, Calendar constraint		CPO, Cplex, MiniZinc, CHIP, Chuffed			benchmark	edge-finding, lazy clause generation	1105	1649
KreterSSZ18 [368]	15	task, order, activity, machine, precedence, release-date, tardiness, preemptive, periodic, scheduling, completion-time, resource, preempt, unavailability	RCPSP, psplib, Resource-constrained Project Scheduling Problem	cumulative, Element constraint, Calendar constraint		Cplex, Chuffed, MiniZinc			benchmark	GRASP, Lagrangian relaxation, genetic algorithm, lazy clause generation, particle swarm	1096	1640

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
KuB16 [369]	9	tardiness, earliness, completion-time, job-shop, job, order, precedence, scheduling, make-span, machine		Disjunctive constraint, disjunctive		Ilog Scheduler, Gurobi, Cplex, SCIP			benchmark	genetic algorithm, meta heuristic	1117	1661
KuchcinskiW03 [370]	15	scheduling, distributed, precedence, resource, order		cycle, Diff2 constraint, circuit	Java		pipeline		benchmark		1221	1765
Laborie03 [373]	38	task, cmax, machine, job, re-scheduling, inventory, job-shop, preempt, resource, precedence, order, activity, setup-time, release-date, preemptive, 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	1222	1766
LaborieRSV18 [376]	41	Benders Decomposition, release-date, precedence, earliness, sequence dependent setup, scheduling, machine, transportation, manpower, periodic, setup-time, order, tardiness, make-span, distributed, Logic-Based Benders Decomposition, job-shop, resource, activity, inventory, due-date, batch process, flow-shop, job, stochastic, re-scheduling, task, breakdown, multi-objective, net present value	psplib, parallel machine, RCPSP, Resource-constrained Project Scheduling Problem	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	edge-finding, large neighborhood search	1097	1641
LacknerMMWW23 [378]	42	release-date, job, order, tardiness, scheduling, machine, lateness, earliness, batch process, setup-time, due-date, make-span, task, job-shop, Pareto, multi-objective	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, ant colony, genetic algorithm, large neighborhood search, meta heuristic, particle swarm, simulated annealing	999	1543
LammaMM97 [381]	15	job-shop, resource, job, no-wait, scheduling, precedence, order, task, distributed		circuit, disjunctive, Disjunctive constraint	Prolog, C++	ECLiPSe, OPL, CHIP	railway, train schedule		real-life		1251	1795

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

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
LetortCB15 [389]	52	machine, make-span, job, precedence, order, resource, scheduling, task	psplib, Resource-constrained Project Scheduling Problem	Cumulatives constraint, cumulative, cycle, bin-packing	Java, Prolog	Choco Solver, CHIP, SICStus			generated instance, Roadef, benchmark, random instance	energetic reasoning, sweep, edge-finding, large neighborhood search, meta heuristic	1128	1672
LiW08 [390]	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	astronomy		real-world	Lagrangian relaxation	1199	1743
LiessM08 [392]	12	machine, job, activity, job-shop, make-span, cmax, preempt, resource, scheduling, precedence, task, preemptive, order	RCPSP, psplib, Resource-constrained Project Scheduling Problem	cumulative, disjunctive	C++				benchmark	edge-finding, column generation, large neighborhood search, meta heuristic	1200	1744
LimtanyakulS12 [397]	32	precedence, stochastic, release-date, completion-time, job, resource, activity, tardiness, machine, scheduling, order, Benders Decomposition, due-date	Resource-constrained Project Scheduling Problem	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, genetic algorithm	1152	1696
LombardiM10a [406]	30	due-date, distributed, job, re-scheduling, task, preemptive, completion-time, Benders Decomposition, precedence, scheduling, machine, stochastic, order, make-span, release-date, Logic-Based Benders Decomposition, resource, activity, preempt	TCSP, Resource-constrained Project Scheduling Problem	Disjunctive constraint, cycle, span constraint, cumulative, disjunctive, table constraint	C	Cplex	business process		benchmark, real-life, real-world	sweep, genetic algorithm	1180	1724

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

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
LombardiM12 [409]	35	precedence, flow-shop, make-span, sequence dependent setup, order, job, activity, scheduling, resource, machine, preempt, tardiness, preemptive, job-shop, transportation, completion-time, re-scheduling, setup-time, earliness, Benders Decomposition, due-date, Logic-Based Benders Decomposition, task, inventory, stochastic, distributed, manpower, energy efficiency, reactive scheduling	parallel machine, RCPSP, psplib, Partial Order Schedule, Resource-constrained Project Scheduling Problem	circuit, Disjunctive constraint, cycle, disjunctive, cumulative		OR-Tools	aircraft	chemical industry	real-world, benchmark	energetic reasoning, edge-finding, genetic algorithm, large neighborhood search, lazy clause generation, meta heuristic	1153	1697
LombardiM12a [408]	10	completion-time, precedence, scheduling, stochastic, order, make-span, resource, activity, producer/consumer	psplib, RCPSP, Partial Order Schedule, Resource-constrained Project Scheduling Problem	disjunctive		Ilog Solver			benchmark		1154	1698
LombardiMB13 [411]	14	distributed, cmax, re-scheduling, task, preemptive, completion-time, precedence, scheduling, stochastic, periodic, order, make-span, resource, activity, preempt, energy efficiency, multi-objective	SCC, RCPSP	cycle, cumulative, circuit		OR-Tools, Gecode, Ilog Solver	pipeline, medical		benchmark, real-world		1146	1690
LombardiMRB10 [412]	31	preempt, make-span, task, precedence, preemptive, stochastic, resource, activity, periodic, re-scheduling, Benders Decomposition, completion-time, tardiness, producer/consumer, scheduling, Logic-Based Benders Decomposition, 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	genetic algorithm, simulated annealing	1181	1725
LopesCSM10 [413]	39	distributed, stock level, inventory, job-shop, due-date, activity, order, re-scheduling, resource, scheduling, task, transportation, make-span, job, precedence, multi-objective, reactive scheduling		disjunctive, table constraint, cycle, alldifferent	C++	Ilog Scheduler, Ilog Solver, OPL	pipeline	oil industry	benchmark, real-world	max-flow, MINLP, genetic algorithm, meta heuristic	1182	1726
LopezAKYG00 [414]	4										1237	1781
LorigeonBB02 [415]	8	resource, activity, setup-time, preempt, flow-shop, job, cmax, open-shop, completion-time, scheduling, machine, order, make-span, unavailability	parallel machine, Open Shop Scheduling Problem			Cplex, OPL					1225	1769

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

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
LunardiBLRV20 [417]	20	make-span, completion-time, job-shop, resource, flow-shop, activity, re-scheduling, job, order, tardiness, scheduling, due-date, machine, precedence, setup-time, preempt, bi-objective, unavailability	FJS	endBeforeStart, noOverlap	Python	Cplex	high performance computing	printing industry, glass industry	benchmark, random instance, generated instance, github	genetic algorithm, large neighborhood search, meta heuristic	1059	1603
MalapertCGJLR12 [425]	17	transportation, flow-shop, preemptive, 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, ant colony, genetic algorithm, meta heuristic, particle swarm	1155	1699
MalikMB08 [429]	18	distributed, resource, machine, precedence, order, scheduling		Cardinality constraint, cycle			pipeline		benchmark	edge-finding	1201	1745
MarliereSPR23 [431]	22	machine, precedence, transportation, distributed, task, job-shop, resource, no-wait, activity, re-scheduling, job, order, scheduling, energy efficiency, multi-objective	rtRTMP, RTMP	Disjunctive constraint, disjunctive, circuit, table constraint, alternative constraint, cumulative, cycle, noOverlap		Cplex	railway, train schedule, robot		real-world, benchmark	time-tabling, Lagrangian relaxation, machine learning, meta heuristic, quadratic programming	1000	1544
MartinPY01 [432]	17	scheduling, task, machine, order, transportation, re-scheduling, resource, breakdown		circuit	Prolog	ECLiPSe, Ilog Solver	train schedule, railway, aircraft	sugar industry	real-life		1230	1774
Mason01 [434]	38	scheduling, order, activity, transportation, task, cyclic scheduling				OPL, Cplex	railway, crew-scheduling, nurse, workforce scheduling	airline industry		Lagrangian relaxation, column generation	1231	1775
MejiaY20 [436]	13	resource, job-shop, cmax, sequence dependent setup, preempt, due-date, re-scheduling, preemptive, order, tardiness, scheduling, completion-time, machine, setup-time, job, no-wait, open-shop, release-date, make-span, transportation, multi-agent, distributed, bi-objective, multi-objective	Open Shop Scheduling Problem, OSSP, parallel machine	Disjunctive constraint, disjunctive	Java	Cplex, ECLiPSe	agriculture, robot		supplementary material, benchmark, generated instance	GRASP, ant colony, genetic algorithm, meta heuristic, particle swarm, simulated annealing	1060	1604

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

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
MenciaSV12 [438]	32	order, lateness, preempt, cmax, sequence dependent setup, resource, scheduling, flow-time, task, job-shop, preemptive, machine, make-span, job, completion-time, precedence, distributed, setup-time, multi-objective	JSSP, single machine	disjunctive, cycle, Disjunctive constraint			steel mill		real-life, benchmark	edge-finding, energetic reasoning, timetabling, genetic algorithm, memetic algorithm, simulated annealing	1156	1700
MenciaSV13 [439]	11	order, lateness, preempt, cmax, sequence dependent setup, resource, scheduling, flow-time, task, job-shop, preemptive, machine, make-span, flow-shop, job, completion-time, precedence, setup-time, multi-objective	JSSP, single machine	disjunctive, cycle, Disjunctive constraint			steel mill		real-life, supplementary material, benchmark	edge-finding, energetic reasoning, timetabling, genetic algorithm, meta heuristic, simulated annealing	1147	1691
MengZRZL20 [440]	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, cyclic scheduling, energy efficiency, multi-objective	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	ant colony, genetic algorithm, meta heuristic, particle swarm, simulated annealing	1061	1605
MercierH08 [441]	21	scheduling, preempt, task, preemptive, job, release-date, job-shop, due-date, order, resource		cumulative, disjunctive						edge-finder, edge-finding	1202	1746
MilanoW06 [445]	45	release-date, preemptive, Logic-Based Benders Decomposition, distributed, one-machine scheduling, due-date, job-shop, resource, machine, job, lateness, stochastic, setup-time, preempt, transportation, single-machine scheduling, 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, Lagrangian relaxation, column generation, large neighborhood search, meta heuristic	1211	1755

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
MilanoW09 [446]	40	release-date, preemptive, Logic-Based Benders Decomposition, distributed, one-machine scheduling, due-date, job-shop, resource, machine, job, lateness, stochastic, setup-time, preempt, transportation, single-machine scheduling, 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, Lagrangian relaxation, column generation, large neighborhood search, lazy clause generation, meta heuristic	1192	1736
MokhtarzadehTNF20 [448]	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, meta heuristic, particle swarm, simulated annealing	1062	1606
MontemanniD23 [452]	13	distributed, task, resource, order, scheduling, machine, sustainability		circuit	Python	OR-Tools, OPL, Gurobi	robot, drone		benchmark, supplementary material	ant colony, machine learning, mat heuristic, meta heuristic, swarm intelligence	1001	1545
MontemanniD23a [451]	20	order, completion-time, task, transportation, scheduling, sustainability		circuit	Python	OR-Tools	drone		benchmark	ant colony, mat heuristic, meta heuristic	1002	1546
MullerMKP22 [456]	18	precedence, batch process, make-span, order, job, activity, resource, machine, preempt, cmax, preemptive, job-shop, scheduling, completion-time, setup-time, online scheduling, due-date, no-wait, task, stochastic, bi-objective, breakdown, multi-objective, sustainability	FJS, Resource-constrained Project Scheduling Problem	disjunctive, circuit	Java, Python	Chuffed, MiniZinc, Choco Solver, OPL, OR-Tools, Gecode, Cplex	semiconductor robot		benchmark, github, random instance, real-world	deep learning, genetic algorithm, machine learning, meta heuristic, neural network, reinforcement learning	1025	1569
NaderiBZ22 [462]	29	stochastic, distributed, Logic-Based Benders Decomposition, 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	surgery, patient, crew-scheduling, operating room, nurse, automotive		benchmark, real-life	memetic algorithm, meta heuristic	1026	1570

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
NaderiBZ22a [461]	19	task, stochastic, job-shop, distributed, transportation, re-scheduling, sequence dependent setup, order, job, machine, preempt, precedence, flow-shop, tardiness, make-span, preemptive, scheduling, completion-time, resource, setup-time, Benders Decomposition, Logic-Based Benders Decomposition, multi-objective	parallel machine	Disjunctive constraint, noOverlap, disjunctive, endBeforeStart	C++	CPO, Cplex	crew-scheduling, robot, nurse, operating room, automotive		benchmark	ant colony, genetic algorithm, meta heuristic, simulated annealing	1027	1571
NaderiRR23 [465]	27	tardiness, flow-shop, order, earliness, cmax, re-scheduling, resource, scheduling, preempt, sequence dependent setup, task, preemptive, transportation, machine, make-span, no-wait, job, completion-time, precedence, Benders Decomposition, distributed, Logic-Based Benders Decomposition, setup-time, job-shop, due-date, open-shop, bi-objective	OSP, Open Shop Scheduling Problem, PMSP, PTC, single machine, RCPSP, FJS, parallel machine, Resource-constrained Project Scheduling Problem	cumulative, disjunctive, Disjunctive constraint, noOverlap, endBeforeStart, alternative constraint	Python	Z3, CPO, Gurobi, SCIP, Cplex	crew-scheduling, operating room, automotive		github, benchmark	genetic algorithm, large neighborhood search, meta heuristic	1003	1547
NattafAL15 [467]	21	resource, release-date, scheduling, preempt, task, preemptive, activity, make-span, due-date, order	RCPSP, CECSP, CuSP, Resource-constrained Project Scheduling Problem	cumulative	C++	Cplex			generated instance	energetic reasoning, sweep	1129	1673
NattafAL17 [468]	18	resource, release-date, scheduling, task, activity, make-span, job, order, energy efficiency	CECSP	disjunctive, cumulative	C++	Cplex			real-world	energetic reasoning, edge-finding	1106	1650
NattafALR16 [469]	34	preemptive, scheduling, due-date, no preempt, task, precedence, make-span, order, activity, resource, preempt, release-date	CECSP, CuSP, RCPSP, Resource-constrained Project Scheduling Problem	cumulative	C++	Cplex			generated instance	energetic reasoning, sweep	1118	1662
NattafDYW19 [470]	16	job-shop, single-machine scheduling, scheduling, completion-time, setup-time, stochastic, make-span, order, job, resource, machine, cmax, periodic	parallel machine, single machine, PTC	noOverlap, alternative constraint		Cplex, OPL	semiconductor	lumber industry, semiconductor industry	benchmark	genetic algorithm, memetic algorithm, meta heuristic, simulated annealing	1075	1619

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

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
NattafHKAL19 [471]	16	preempt, single-machine scheduling, order, resource, activity, scheduling, machine, task, preemptive, make-span, release-date	RCPSP, single machine, CECSP, Resource-constrained Project Scheduling Problem	cumulative		Cplex			benchmark, real-life	energetic reasoning	1076	1620
NishikawaSTT19 [477]	16	re-scheduling, online scheduling, order, precedence, scheduling, make-span, preempt, resource, activity, task, distributed, machine, preemptive	parallel machine	alternative constraint, cumulative		Cplex	pipeline, robot		real-world, benchmark	genetic algorithm, large neighborhood search	1077	1621
NovaraNH16 [478]	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		1119	1663
Novas19 [479]	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, multi-objective	parallel machine, FJS, HFS	cycle, cumulative, endBeforeStart, noOverlap		OPL, Cplex	train schedule, medical, semiconductor, robot	solar cell industry	benchmark	genetic algorithm, meta heuristic, particle swarm, swarm intelligence	1078	1622
NovasH10 [480]	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, periodic, resource, lateness, breakdown, multi-objective, reactive scheduling, unavailability				OPL, Ilog Scheduler	pipeline			meta heuristic	1183	1727
NovasH12 [481]	17	precedence, order, scheduling, completion-time, machine, job, task, no-wait, activity, make-span, transportation, resource, breakdown, reactive scheduling		cycle		Ilog Solver, OPL, Ilog Scheduler	hoist, electroplating, container terminal, semiconductor, robot	semiconductor industry, electroplating industry			1157	1701

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

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
NovasH14 [482]	14	precedence, order, scheduling, completion-time, machine, job, task, activity, make-span, transportation, buffer-capacity, resource, job-shop, multi-objective, reactive scheduling, unavailability	single machine, parallel machine			Ilog Solver, OPL, Ilog Scheduler	robot		benchmark	ant colony, genetic algorithm	1140	1684
NuijtenA96 [485]	16	resource, scheduling, preempt, machine, make-span, job, precedence, job-shop, preemptive, flow-shop, completion-time, order	JSSP	disjunctive, Disjunctive constraint		CPO				time-tabling	1254	1798
NuijtenP98 [484]	16	resource, scheduling, preempt, manpower, task, transportation, machine, make-span, job, precedence, setup-time, job-shop, preemptive, single-machine scheduling, flow-shop, completion-time, order, reactive scheduling	single machine, JSSP	disjunctive, Disjunctive constraint	C++	Ilog Solver, OPL, Ilog Scheduler	satellite		real-life	edge-finding, simulated annealing	1247	1791
OhrimenkoSC09 [488]	35	job, completion-time, scheduling, machine, open-shop, order, make-span, resource	Open Shop Scheduling Problem	Reified constraint, Arithmetic constraint, alldifferent, Cardinality constraint, disjunctive		Gecode			benchmark	lazy clause generation	1193	1737
OrnekO16 [489]	25	precedence, cmax, preempt, due-date, preemptive, order, tardiness, inventory, scheduling, completion-time, machine, setup-time, job, activity, bill of material, release-date, make-span, earliness, distributed, resource, BOM, job-shop, multi-objective	parallel machine	cumulative, Disjunctive constraint, Element constraint, disjunctive		Cplex, OPL			real-world, real-life	edge-finding, genetic algorithm, meta heuristic, neural network	1120	1664
OrnekOS20 [490]	29	machine, stochastic, distributed, resource, order, periodic, scheduling, Pareto, multi-objective	parallel machine	disjunctive, noOverlap		Cplex	aircraft		real-world, generated instance	time-tabling, genetic algorithm, large neighborhood search, meta heuristic, particle swarm, simulated annealing	1029	1573
OzturkTHO10 [495]	8	order, job, activity, scheduling, completion-time, resource, machine, cmax, setup-time, task, precedence, make-span	SBSFMMAL	disjunctive		Ilog Scheduler, OPL, Ilog Solver, Cplex	robot				1184	1728

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
OzturkTHO12 [680]	6	order, job, activity, scheduling, completion-time, resource, machine, preempt, job-shop, setup-time, task, distributed, precedence, make-span, preemptive, cyclic scheduling		Element constraint, cycle, disjunctive, cumulative		OPL, Cplex				edge-finding	1158	1702
OzturkTHO13 [496]	36	order, job, activity, scheduling, completion-time, resource, machine, preempt, cmax, setup-time, task, precedence, flow-shop, make-span, preemptive, breakdown, cyclic scheduling	SBSFMMAL	Disjunctive constraint, Channeling constraint, cycle, disjunctive, cumulative		OPL, CHIP, Ilog Solver, Cplex			real-world, real-life	edge-finding, column generation, genetic algorithm, large neighborhood search	1148	1692
OzturkTHO15 [681]	12	order, job, activity, scheduling, completion-time, resource, machine, preempt, setup-time, task, inventory, distributed, precedence, make-span, preemptive, breakdown, cyclic scheduling	SBSFMMAL	circuit, cycle, disjunctive, cumulative		OPL, Cplex			real-life	large neighborhood search	1130	1674
PandeyS21a [497]	29	resource, scheduling, re-scheduling, make-span, job, precedence, distributed, task, single-machine scheduling, machine, activity, flow-shop, completion-time, order, energy efficiency, unavailability	parallel machine, PMSP, single machine	cumulative, Pulse constraint, endBeforeStart, alternative constraint		OPL, Cplex	semiconductor		benchmark	column generation, mat heuristic, quadratic programming	1045	1589
PapaB98 [500]	25	due-date, machine, preempt, re-scheduling, activity, task, flow-shop, resource, job, order, make-span, completion-time, scheduling, distributed, preemptive, cmax, setup-time, job-shop, reactive scheduling	PJSSP, JSSP, Resource-constrained Project Scheduling Problem	cumulative, table constraint, disjunctive, Disjunctive constraint, Cardinality constraint	C++	Ilog Solver, CHIP, Claire	hoist		benchmark	edge-finder, energetic reasoning, edge-finding	1248	1792
Pape94 [498]	34	stochastic, 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						1257	1801
PenzDN23 [503]	13	machine, flow-time, job, periodic, resource, one-machine scheduling, job-shop, release-date, single-machine scheduling, earliness, preempt, preemptive, order, tardiness, scheduling, completion-time, setup-time, activity, make-span, stochastic, breakdown, sustainability, unavailability	parallel machine, single machine			Cplex	semiconductor maintenance scheduling	semiconductor industry		ant colony, memetic algorithm, meta heuristic, simulated annealing	1005	1549

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
PoderBS04 [509]	16	preempt, scheduling, precedence, order, task, activity, producer/consumer, release-date, preemptive, due-date, resource, machine	RCPSP	cumulative	Prolog	CHIP		chemical industry			1218	1762
PohlAK22 [510]	16	job, activity, resource, lateness, release-date, transportation, precedence, single-machine scheduling, earliness, sequence dependent setup, re-scheduling, tardiness, inventory, scheduling, completion-time, setup-time, order, stochastic, machine	SCC, single machine	cumulative, noOverlap	Python	Cplex, Gurobi	aircraft		benchmark, real-world	column generation, large neighborhood search, simulated annealing	1030	1574
Polo-MejiaALB20 [511]	18	setup-time, cmax, resource, preempt, precedence, earliness, Benders Decomposition, task, job, due-date, activity, machine, tardiness, preemptive, order, release-date, make-span, scheduling, completion-time, periodic, multi-objective	RCPSP, Resource-constrained Project Scheduling Problem	endBeforeStart, alternative constraint, alwaysIn, Disjunctive constraint, cumulative, noOverlap, disjunctive, Calendar constraint	C++	Cplex, CPO			Roadef, github	mat heuristic, meta heuristic, particle swarm	1063	1607
PourDERB18 [513]	12	order, transportation, job, scheduling, task, machine, stochastic, multi-objective				OR-Tools, Cplex	crew-scheduling, maintenance scheduling, railway		real-world, real-life, benchmark, generated instance	ant colony, genetic algorithm, meta heuristic	1098	1642
PrataAN23 [517]	17	precedence, order, tardiness, activity, setup-time, flow-time, release-date, no-wait, earliness, preemptive, single-machine scheduling, scheduling, Logic-Based Benders Decomposition, make-span, completion-time, task, online scheduling, order scheduling, machine, job, lateness, re-scheduling, stochastic, sequence dependent setup, inventory, distributed, due-date, job-shop, batch process, preempt, flow-shop, resource, open-shop, Benders Decomposition, bi-objective, energy efficiency, multi-objective	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, genetic algorithm, large neighborhood search, machine learning, mat heuristic, memetic algorithm, meta heuristic, particle swarm, reinforcement learning	981	1525

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
QinDCS20 [520]	18	order, tardiness, scheduling, completion-time, machine, setup-time, job, task, activity, make-span, transportation, cmax, resource, Benders Decomposition, Logic-Based Benders Decomposition, precedence	parallel machine	endBeforeStart, cycle, noOverlap		OPL, Cplex	shipping line, container terminal, yard crane	maritime industry, shipping industry	real-life, benchmark	GRASP, meta heuristic, particle swarm	1064	1608
QinWSLS21 [519]	12	job-shop, preempt, flow-shop, scheduling, order, make-span, completion-time, two-stage scheduling, tardiness, preemptive, single-machine scheduling, batch process, cmax, order scheduling, machine, job, lateness, multi-objective	single machine		C++	OPL, Cplex	agriculture, semiconductor	semiconductor industry		ant colony, genetic algorithm, machine learning, memetic algorithm, meta heuristic, particle swarm	1046	1590
Rodriguez07 [527]	15	precedence, preemptive, 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, train schedule, satellite		real-life	GRASP, meta heuristic	1207	1751
RodriguezDG02 [529]	10	resource, activity, order, completion-time, scheduling, transportation		circuit, disjunctive			railway, train schedule			edge-finding	1227	1771
RoshanaeiBAUB20 [531]	19	scheduling, Logic-Based Benders Decomposition, resource, order, Benders Decomposition, job, job-shop, setup-time, activity, machine, stochastic, distributed, sequence dependent setup, re-scheduling, bi-objective	parallel machine	bin-packing, noOverlap, disjunctive	C++	Cplex	operating room, nurse, patient, surgery		benchmark, generated instance, real-world	column generation, genetic algorithm, meta heuristic	1065	1609
RoshanaeiLAU17 [532]	17	tardiness, sequence dependent setup, Benders Decomposition, transportation, scheduling, stochastic, order, make-span, Logic-Based Benders Decomposition, release-date, resource, setup-time, task, distributed, machine, job-shop, job, re-scheduling, breakdown	parallel machine, single machine	bin-packing		Cplex, Gurobi	patient, operating room, medical, surgery, nurse		real-world	column generation, meta heuristic	1107	1651
RuggieroBBMA09 [535]	14	Logic-Based Benders Decomposition, resource, activity, distributed, machine, scheduling, order, Benders Decomposition, preempt, setup-time, precedence, task, Pareto, energy efficiency		circuit, cumulative, cycle		Ilog Solver, Ilog Scheduler, Cplex	pipeline, satellite		instance generator, real-life	genetic algorithm	1194	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
SacramentoSP20 [536]	33	preempt, precedence, task, stochastic, open-shop, completion-time, job, resource, activity, distributed, machine, preemptive, flow-shop, job-shop, transportation, scheduling, order, make-span, multi-objective	parallel machine, Open Shop Scheduling Problem, Resource-constrained Project Scheduling Problem	disjunctive, cumulative, alternative constraint, end-BeforeStart, noOverlap	Java	Cplex, CPO	container terminal	shipping industry, maritime industry	benchmark, real-life, zenodo, real-world	genetic algorithm, large neighborhood search, machine learning, mat heuristic, meta heuristic, particle swarm, simulated annealing	1066	1610
SadykovW06 [538]	9	scheduling, due-date, machine, completion-time, one-machine scheduling, lateness, job, release-date	parallel machine, single machine	disjunctive, Disjunctive constraint		CHIP	robot		generated instance	Lagrangian relaxation, column generation	1212	1756
SakkoutW00 [539]	30	scheduling, distributed, task, job-shop, preemptive, machine, activity, precedence, single-machine scheduling, order, preempt, transportation, re-scheduling, resource, job, reactive scheduling	KRFP, single machine	Arithmetic constraint, bin-packing, disjunctive, Disjunctive constraint		CHIP, Cplex	emergency service, aircraft		benchmark, real-world	edge-finder, edge-finding, genetic algorithm, simulated annealing	1238	1782
SchausHMCMD11 [541]	23	stochastic, periodic, task, order	SCC	Cardinality constraint, bin-packing, Element constraint, GCC constraint			steel mill	steel industry	benchmark, CSPlib, generated instance	large neighborhood search, meta heuristic	1173	1717
SchildW00 [542]	23	periodic, 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	1239	1783
SchnellH15 [543]	21	preempt, resource, job, scheduling, preemptive, machine, activity, make-span, precedence, cmax, net present value	psplib, RCPSP, Resource-constrained Project Scheduling Problem	cycle, cumulative		SCIP	automotive	IT industry	real-life, benchmark, supplementary material	GRASP, lazy clause generation, meta heuristic, simulated annealing	1131	1675
SchuttFSW11 [550]	33	scheduling, completion-time, resource, machine, preempt, periodic, open-shop, task, order, activity, precedence, make-span, preemptive	psplib, RCPSP, Resource-constrained Project Scheduling Problem	circuit, Disjunctive constraint, span constraint, disjunctive, cumulative		ECLiPSe, CHIP, Ilog Scheduler, SICStus			real-world, benchmark	not-last, not-first, edge-finding, edge-finder, lazy clause generation	1174	1718

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

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
SchuttFSW13 [551]	17	scheduling, resource, machine, setup-time, preempt, cmax, task, order, activity, precedence, release-date, preemptive	SCC, psplib, RCPSP, Resource-constrained Project Scheduling Problem	cycle, disjunctive, cumulative, Reified constraint	C++	CHIP			supplementary material, benchmark	genetic algorithm, lazy clause generation, meta heuristic	1149	1693
ShaikhK23 [557]	12	job, re-scheduling, distributed, job-shop, resource, open-shop, machine, order, activity, scheduling, task, unavailability					medical, drone		real-world, benchmark	time-tabling, genetic algorithm, machine learning, meta heuristic	1006	1550
ShinBBHO18 [560]	16	order, preempt, transportation, resource, job, scheduling, task, machine, activity, stochastic, inventory					patient, physician, nurse, medical		real-world, github		1099	1643
Siala15 [561]	2	precedence, cmax, sequence dependent setup, job-shop, 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, Roadef, CSPlib	GRASP, edge-finding, time-tabling	1132	1676
SimoninAHL15 [565]	23	resource, activity, scheduling, transportation, task, make-span, precedence, periodic, preempt, order, inventory		disjunctive, span constraint, cycle, cumulative		CHIP	earth observation, robot, satellite, pipeline			sweep	1133	1677

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

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
Simonis07 [569]	30	periodic, 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, business process			sweep, bi-partite matching, time-tabling, meta heuristic	1208	1752
SimonisCK00 [570]	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, business process	food industry			1240	1784
SourdN00 [573]	12	make-span, resource, job-shop, flow-shop, precedence, cmax, preempt, preemptive, 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, genetic algorithm	1241	1785
SubulanC22 [575]	38	tardiness, order, preempt, BOM, transportation, resource, scheduling, task, preemptive, due-date, machine, activity, make-span, completion-time, precedence, stochastic, inventory, breakdown, multi-objective	RCPSP, Resource-constrained Project Scheduling Problem	endBeforeStart, cumulative		Cplex, OPL	offshore, business process		real-world, real-life, benchmark	ant colony, genetic algorithm, mat heuristic, meta heuristic, particle swarm	1032	1576
SureshMOK06 [578]	19	task, stochastic, distributed, order, job, machine, scheduling, buffer-capacity		cumulative, cycle		Z3				genetic algorithm, machine learning	1213	1757
TangLWSK18 [584]	28	order, preempt, transportation, re-scheduling, resource, scheduling, task, preemptive, activity, job, stochastic, multi-objective	RCPSP	circuit, cycle	C	Cplex, OPL	crew-scheduling, railway, pipeline			genetic algorithm, meta heuristic, neural network, particle swarm	1100	1644

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
TerekhovDOB12 [590]	15	distributed, due-date, preempt, order scheduling, make-span, precedence, cmax, single-stage scheduling, resource, inventory, activity, periodic, job, Benders Decomposition, completion-time, tardiness, job-shop, scheduling, Logic-Based Benders Decomposition, release-date, machine, lateness, flow-shop, earliness, open-shop, order, single-machine scheduling	parallel machine, RCPSP, single machine, Resource-constrained Project Scheduling Problem	disjunctive, cumulative, Balance constraint, alldifferent	C++	Ilog Scheduler, Cplex, Ilog Solver	robot		real-life	genetic algorithm, meta heuristic	1159	1703
TerekhovTDB14 [591]	38	flow-shop, order, distributed, no preempt, preempt, make-span, task, preemptive, cmax, stochastic, resource, inventory, activity, periodic, re-scheduling, job, completion-time, tardiness, job-shop, scheduling, flow-time, buffer-capacity, release-date, machine, online scheduling	parallel machine, single machine			Ilog Scheduler, Cplex	robot, semiconductor		real-world	genetic algorithm, meta heuristic	1141	1685
ThiruvadyWGS14 [595]	34	scheduling, order, precedence, task, stochastic, make-span, completion-time, resource, activity, tardiness, distributed, machine, job, breakdown, net present value	psplib, single machine, Resource-constrained Project Scheduling Problem	cumulative				mining industry	benchmark	Lagrangian relaxation, ant colony, genetic algorithm, machine learning, meta heuristic, simulated annealing	1142	1686
Timpe02 [598]	18	inventory, task, job, resource, make-span, scheduling, producer/consumer, due-date, order, machine, activity, stock level, setup-time, breakdown		diffn, Balance constraint, cumulative, disjunctive, cycle	C++	CHIP, Cplex		chemical industry, process industry			1228	1772
TopalogluO11 [600]	10	scheduling, re-scheduling, task, preemptive, transportation, preempt, order, distributed, multi-objective				Cplex, OPL, Ilog Solver	nurse, surgery, medical, physician, emergency service, patient		real-life	time-tabling, column generation	1175	1719
TorresL00 [601]	12	precedence, order, preempt, release-date, scheduling, make-span, task, job, preemptive, job-shop, resource, machine	single machine, JSSP	disjunctive, cumulative, cycle	C++		robot		benchmark	not-last, energetic reasoning, not-first	1242	1786

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

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
TranAB16 [604]	13	sequence dependent setup, due-date, order, tardiness, scheduling, stochastic, completion-time, machine, setup-time, job, release-date, make-span, single-machine scheduling, cmax, resource, Benders Decomposition, Logic-Based Benders Decomposition, precedence	single machine, parallel machine, PMSP	cycle, circuit		SCIP, Gurobi, Cplex	aircraft		benchmark	ant colony, column generation, genetic algorithm, meta heuristic, simulated annealing	1121	1665
TranPZLDB18 [607]	17	machine, make-span, preemptive, periodic, scheduling, completion-time, resource, task, stochastic, distributed, re-scheduling, online scheduling, order, job, energy efficiency	single machine	bin-packing	C++	Cplex	high performance computing		benchmark, generated instance	machine learning	1101	1645
TranVNB17 [609]	68	scheduling, Benders Decomposition, precedence, order, task, activity, Logic-Based Benders Decomposition, resource, multi-agent, machine, job, re-scheduling, transportation, multi-objective, unavailability		alternative constraint, cumulative, Cardinality constraint, noOverlap		OPL, MiniZinc, Cplex	satellite, robot, medical		real-world		1109	1653
TrojetHL11 [612]	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, SICStus	robot		real-world		1176	1720
Tsang03 [613]	2	resource, scheduling							real-life	time-tabling	1223	1767
VilimBC05 [630]	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	1216	1760
VlkHT21 [633]	14	scheduling, Logic-Based Benders Decomposition, tardiness, stochastic, due-date, completion-time, no-wait, distributed, precedence, Benders Decomposition, order, periodic, online scheduling, resource, bi-objective	PMSP	alternative constraint, noOverlap		OPL, Cplex, Gurobi, Z3	automotive, robot		github, benchmark, industrial partner, random instance	GRASP	1047	1591

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

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
Wallace96 [635]	30	distributed, task, resource, multi-agent, machine, job, stochastic, job-shop, transportation, scheduling, Benders Decomposition, order, activity, reactive scheduling		cycle, circuit, disjunctive	Lisp, Prolog	CHIP, Ilog Solver, ECLiPSe, OPL	automotive, robot, train schedule, aircraft, railway, telescope	process industry, automotive industry		time-tabling, Lagrangian relaxation, column generation, genetic algorithm, neural network, simulated annealing	1255	1799
WallaceY20 [637]	19	machine, flow-shop, order, resource, scheduling, transportation, job, Benders Decomposition, Logic-Based Benders Decomposition, task, job-shop, bi-objective, cyclic scheduling	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, genetic algorithm, lazy clause generation, meta heuristic	1067	1611
WangMD15 [640]	13	make-span, stochastic, job, activity, resource, job-shop, precedence, cmax, re-scheduling, scheduling, completion-time, task, no-wait, order, multi-objective		cumulative, noOverlap		OPL, Cplex	nurse, operating room, physician, patient, surgery, medical		real-life, real-world	time-tabling, column generation, mat heuristic, particle swarm	1134	1678
WikarekS19 [644]	22	multi-agent, scheduling, preempt, manpower, make-span, resource, job, precedence, distributed, task, setup-time, job-shop, preemptive, machine, flow-shop, order, cmax, inventory	RCPSP, JSSP	cumulative, disjunctive		ECLiPSe, Z3, SCIP	robot			meta heuristic	1080	1624
WuBB09 [653]	9	stochastic, distributed, resource, job, machine, single-machine scheduling, 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		1195	1739
YounespourAKE19 [655]	11	re-scheduling, resource, inventory, order, scheduling, completion-time, cmax, activity, machine, stochastic, precedence, make-span, distributed, Pareto, multi-objective		alternative constraint, span constraint, cumulative, noOverlap		OPL, Z3	nurse, operating room, surgery, medical, patient		real-life, real-world	MINLP, ant colony	1081	1625

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
YunusogluY22 [658]	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, bi-objective, breakdown, multi-objective, unavailability	PMSP, parallel machine	noOverlap, bin-packing, cumulative, endBeforeStart		OPL, Cplex	robot, medical	insulation industry	real-world, generated instance, benchmark, real-life, supplementary material	GRASP, Lagrangian relaxation, ant colony, genetic algorithm, mat heuristic, meta heuristic, particle swarm, simulated annealing	1033	1577
YuraszeckMCCR23 [661]	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, multi-objective	RCPSP, Open Shop Scheduling Problem, JSSP, FJS, OSSP, Resource-constrained Project Scheduling Problem	endBeforeStart, cumulative		OPL, Cplex		pharmaceutical industry	github, benchmark, real-world	GRASP, mat heuristic, meta heuristic	1007	1551
YuraszeckMPV22 [660]	26	sequence dependent setup, no-wait, due-date, transportation, scheduling, stochastic, order, make-span, release-date, completion-time, resource, setup-time, task, distributed, open-shop, machine, flow-shop, flow-time, job-shop, job, re-scheduling, cyclic 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	ant colony, genetic algorithm, mat heuristic, meta heuristic, simulated annealing	1034	1578

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
ZarandiASC20 [664]	93	preempt, single-machine scheduling, order, tardiness, inventory, batch process, distributed, lateness, no-wait, resource, activity, multi-agent, completion-time, two-stage scheduling, due-date, one-machine scheduling, scheduling, machine, flow-shop, job, cmax, stochastic, re-scheduling, open-shop, task, flow-time, preemptive, make-span, release-date, precedence, earliness, sequence dependent setup, job-shop, transportation, periodic, setup-time, Pareto, bi-objective, breakdown, energy efficiency, multi-objective, net present value, reactive scheduling	HFS, PMSP, parallel machine, RCPSP, OSSP, JSSP, single machine, FJS, Open Shop Scheduling Problem, Resource-constrained Project Scheduling Problem, Resource-constrained Project Scheduling Problem with Discounted Cashflow	disjunctive, cycle	Prolog	OPL	satellite, robot, surgery, drone, medical, railway, crew-scheduling, container terminal, train schedule, maintenance scheduling, nurse, aircraft, semiconductor, operating room, business process, evacuation	textile industry, gas industry	real-world, benchmark, real-life	max-flow, timetabling, Lagrangian relaxation, ant colony, column generation, genetic algorithm, machine learning, memetic algorithm, meta heuristic, neural network, particle swarm, reinforcement learning, simulated annealing, swarm intelligence	1068	1612
ZarandiKS16 [663]	17	make-span, preemptive, job, scheduling, completion-time, resource, machine, preempt, earliness, due-date, tardiness, job-shop, single-machine scheduling, transportation, task, order, distributed, flow-shop, breakdown, multi-objective	single machine			Ilog Solver	robot		real-world	timetabling, genetic algorithm, machine learning, meta heuristic, simulated annealing	1122	1666
ZeballosH05 [665]	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			genetic algorithm	1217	1761
ZeballosQH10 [666]	20	preemptive, make-span, precedence, earliness, job-shop, transportation, preempt, order, tardiness, cmax, resource, activity, completion-time, due-date, scheduling, machine, job, task, breakdown, multi-objective				ECLiPSe, Ilog Scheduler, OPL, Ilog Solver, Cplex	robot		real-world, benchmark	ant colony, genetic algorithm	1185	1729

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
ZhangW18 [670]	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, stochastic, machine, setup-time, breakdown, multi-objective, unavailability	FJS	cumulative, noOverlap		Cplex, Z3, OPL	robot		benchmark	ant colony, genetic algorithm, memetic algorithm, meta heuristic, particle swarm, simulated annealing	1102	1646
ZhangYW21 [669]	10	cmax, machine, job, re-scheduling, setup-time, preempt, scheduling, precedence, order, make-span, task, activity, release-date, preemptive, distributed, job-shop, batch process, resource, multi-agent, multi-objective	RCPSP, Resource-constrained Project Scheduling Problem	disjunctive, endBeforeStart		Cplex	robot		benchmark	ant colony, genetic algorithm, memetic algorithm, meta heuristic, particle swarm, simulated annealing	1048	1592
Zhou97 [673]	29	release-date, job-shop, due-date, task, order, preempt, scheduling, preemptive, completion-time, precedence, job, machine		Disjunctive constraint, disjunctive, cumulative	Prolog	CHIP, Z3, Ilog Scheduler			benchmark	edge-finding, edge-finder	1252	1796
ZhuSZW23 [676]	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, Logic-Based Benders Decomposition, precedence, preempt, re-scheduling		endBeforeStart, alternative constraint, disjunctive, noOverlap		Cplex	robot	cable industry	real-world, benchmark	ant colony, column generation, genetic algorithm, particle swarm	1008	1552
ZouZ20 [679]	10	resource, task, order, scheduling, completion-time, activity, two-stage scheduling, stochastic, precedence, distributed, multi-objective		cumulative, noOverlap, span constraint, endBeforeStart		Cplex, OPL	pipeline		benchmark	genetic algorithm, meta heuristic	1069	1613
abs-0907-0939 [507]	12	task, preemptive, 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	1196	1740

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
abs-1009-0347 [549]	37	make-span, task, precedence, preemptive, cmax, resource, activity, scheduling, machine, order, preempt	psplib, RCPSP, SCC, Resource-constrained Project Scheduling Problem	disjunctive, cumulative, cycle	C++	Ilog Scheduler, CHIP, Ilog Solver			benchmark, instance generator	genetic algorithm, lazy clause generation	1186	1730
abs-1901-07914 [77]	8	resource, distributed, machine, multi-agent, scheduling, order, make-span, task			Python	OR-Tools, MiniZinc	robot		benchmark, real-world, github		1082	1626
abs-1902-01193 [14]	9	order, scheduling, stochastic, resource, activity, BOM, task			Python, C++, Prolog	CHIP, Ilog Solver, OPL	medical, nurse			time-tabling, genetic algorithm, meta heuristic, particle swarm, simulated annealing	1083	1627
abs-1902-09244 [286]	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, stochastic, make-span, release-date, bi-objective, breakdown, multi-objective	FJS, RCMPSP, RCPSP, Resource-constrained Project Scheduling Problem	cumulative, cycle, endBeforeStart		OPL, Cplex	aircraft	automobile industry, steel industry, food-processing industry, glass industry, processing industry	benchmark, industry partner, real-world	genetic algorithm, meta heuristic, particle swarm, simulated annealing	1084	1628
abs-1911-04766 [237]	16	scheduling, order, make-span, due-date, precedence, task, release-date, completion-time, job, resource, re-scheduling, activity, multi-objective	RCPSP, Resource-constrained Project Scheduling Problem	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, large neighborhood search, meta heuristic, simulated annealing	1085	1629
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	genetic algorithm	1049	1593

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
abs-2211-14492 [576]	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, energy efficiency, multi-objective	single machine	bin-packing, cumulative, Disjunctive constraint, disjunctive	Python	Cplex, OR-Tools	semiconductor		benchmark, random instance, generated instance	ant colony, column generation, deep learning, genetic algorithm, machine learning, meta heuristic, neural network, quadratic programming, reinforcement learning	1035	1579
abs-2305-19888 [300]	42	job, re-scheduling, sequence dependent setup, distributed, preemptive, flow-shop, scheduling, order, make-span, completion-time, cmax, preempt, resource, setup-time, activity, precedence, task, machine, bi-objective, unavailability	parallel machine	noOverlap, alternative constraint, cumulative		Gurobi	robot, high performance computing		generated instance, real-world, gitlab, benchmark	Lagrangian relaxation, genetic algorithm, meta heuristic	1009	1553
abs-2306-05747 [587]	9	job-shop, re-scheduling, scheduling, order, make-span, preempt, precedence, task, flow-time, completion-time, job, resource, periodic, tardiness, machine, flow-shop	JSSP	noOverlap, disjunctive, cumulative	Java	Choco Solver			supplementary material, benchmark, real-world, github, industrial instance	genetic algorithm, large neighborhood search, machine learning, meta heuristic, neural network, reinforcement learning, simulated annealing	1010	1554
abs-2312-13682 [505]	20	resource, activity, machine, inventory, re-scheduling, scheduling, order, make-span, transportation, task		cumulative, table constraint		OPL	steel mill, container terminal, train schedule, nurse, operating room		real-world, generated instance	large neighborhood search, mat heuristic, meta heuristic	1011	1555

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-2402-00459 [474]	21	machine, job-shop, job, multi-agent, tardiness, due-date, earliness, scheduling, order, completion-time, resource, precedence, task, multi-objective, net present value	single machine, Resource-constrained Project Scheduling Problem	Disjunctive constraint, disjunctive, bin-packing, cumulative		OPL, OR-Tools		mining industry	instance generator, real-world, generated instance, benchmark, github	Lagrangian relaxation, ant colony, column generation, genetic algorithm, machine learning, mat heuristic, meta heuristic, neural network, particle swarm, quadratic programming, reinforcement learning, simulated annealing	982	1526

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 ForbesHJST24 [218]	Combining optimisation and simulation using logic-based Benders decomposition		benchmark, real-life, github	1							980	1335
PrataAN23 PrataAN23 [517]	Applications of constraint programming in production scheduling problems: A descriptive bibliometric analysis	-	benchmark, real-world, real-life	1	-		-	-	survey	-	981	1455
abs-2402-00459 abs-2402-00459 [474]	Genetic-based Constraint Programming for Resource Constrained Job Scheduling	OR-Tools	instance generator, real-world, generated instance, benchmark, github	2	y		n	-	RCJS	cumulatives	982	1523
AbreuNP23 AbreuNP23 [169]	A new two-stage constraint programming approach for open shop scheduling problem with machine blocking	?	real-world, benchmark	10	?		?	?	?	?	983	1264
AbreuPNF23 AbreuPNF23 [3]	A constraint programming-based iterated greedy algorithm for the open shop with sequence-dependent processing times and makespan minimization		real-life, benchmark, real-world	0							984	1265
Adelgren2023 Adelgren2023 [7]	On the utility of production scheduling formulations including record keeping variables		generated instance, benchmark, real-life, github, supplementary material	12							985	1266
AfsarVPG23 AfsarVPG23 [8]	Mathematical models and benchmarking for the fuzzy job shop scheduling problem		real-life, supplementary material, benchmark, real-world	96							986	1267
AkramNHRSA23 AkramNHRSA23 [13]	Joint Scheduling and Routing Optimization for Deterministic Hybrid Traffic in Time-Sensitive Networks Using Constraint Programming	OR-Tools	benchmark	0	n		n	-	TSN	-	987	1269
AlfieriGPS23 AlfieriGPS23 [15]	Permutation flowshop problems minimizing core waiting time and core idle time		benchmark	0							988	1270
Caballero23 Caballero23 [128]	Scheduling through logic-based tools	SAT		1	-		-	PhD Thesis	RCPSP	-	989	1308
CzerniachowskaWZ23 Czernia-chowskaWZ23 [160]	Constraint Programming for Flexible Flow Shop Scheduling Problem with Repeated Jobs and Repeated Operations		benchmark, Roadef, real-world	0							990	1318
FahimiQ23 FahimiQ23 [208]	Overload-Checking and Edge-Finding for Robust Cumulative Scheduling			0							991	No
Fatemi-AnarakiTFV23 Fatemi-AnarakiTFV23 [213]	Scheduling of Multi-Robot Job Shop Systems in Dynamic Environments: Mixed-Integer Linear Programming and Constraint Programming Approaches		github, real-world, random instance	2							992	1333
GhasemiMH23 GhasemiMH23 [244]	Operating room scheduling by emphasising human factors and dynamic decision-making styles: a constraint programming method			0							993	No
GokPTGO23 GokPTGO23 [275]	Constraint-based robust planning and scheduling of airport apron operations through simheuristics		github, real-world	10							994	1340

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
GuoZ23 GuoZ23 [272]	Capacity reservation for humanitarian relief: A logic-based Benders decomposition method with subgradient cut		real-world, supplementary material, github, benchmark	14							995	1347
GurPAE23 GurPAE23 [273]	Operating room scheduling with surgical team: a new approach with constraint programming and goal programming	Cplex	real-life	0	n		n	-	-	-	996	1349
IsikYA23 IsikYA23 [325]	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	997	1372
JuvinHL23a JuvinHL23a [335]	Logic-based Benders decomposition for the preemptive flexible job-shop scheduling problem		benchmark	1							998	1377
LacknerMMWW23 LacknerMMWW23 [378]	Exact methods for the Oven Scheduling Problem	MiniZinc OPL	benchmark, instance generator, zenodo, real-life, random instance, industrial partner	0	DZN JSON		y	[377]	OSP	alternative noOverlap forbidExtent	999	1393
MarliereSPR23 MarliereSPR23 [431]	A conditional time-intervals formulation of the real-time Railway Traffic Management Problem		real-world, benchmark	3							1000	1410
MontemanniD23 MontemanniD23 [452]	Solving the Parallel Drone Scheduling Traveling Salesman Problem via Constraint Programming	OR-Tools	benchmark, supplementary material	6	ref	y	n	-	PDSTSP	circuit	1001	1421
MontemanniD23a MontemanniD23a [451]	Constraint programming models for the parallel drone scheduling vehicle routing problem	OR-Tools	benchmark	0	ref		n	-	PDSTSP	circuit multipleCircuit	1002	1422
NaderiRR23 NaderiRR23 [465]	Mixed-Integer Programming vs. Constraint Programming for Shop Scheduling Problems: New Results and Outlook		github, benchmark	8							1003	1426
NouriMHD23 NouriMHD23 [614]	Production scheduling in a reconfigurable manufacturing system benefiting from human-robot collaboration			0							1004	No
PenzDN23 PenzDN23 [503]	Minimizing the sum of completion times on a single machine with health index and flexible maintenance operations			0							1005	1450
ShaikhK23 ShaikhK23 [557]	Management of electronic ledger: a constraint programming approach for solving curricula scheduling problems	?	real-world, benchmark	2	?		?	?	?	?	1006	1471
YuraszeckMCCR23 YuraszeckMCCR23 [661]	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	1007	1501
ZhuSZW23 ZhuSZW23 [676]	Constraint programming and logic-based Benders decomposition for the integrated process planning and scheduling problem		real-world, benchmark	0							1008	1510
abs-2305-19888 abs-2305-19888 [300]	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	1009	1520

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
abs-2306-05747 abs-2306-05747 [587]	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	1010	1521
abs-2312-13682 abs-2312-13682 [505]	A Constraint Programming Model for Scheduling the Unloading of Trains in Ports: Extended	custom	real-world, generated instance	0	n		n	-	SUTP	table disjunctive	1011	1522
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	1012	1263
BourreauGGLT22 BourreauGGLT22 [119]	A constraint-programming based decomposition method for the Generalised Workforce Scheduling and Routing Problem (GWSRP)		real-world, benchmark	2							1013	1306
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	1014	1309
ColT22 ColT22 [161]	Industrial-size job shop scheduling with constraint programming		generated instance, supplementary material, github, benchmark, real-life, real-world	4							1015	1316
ElciOH22 ElciOH22 [196]	Stochastic Planning and Scheduling with Logic-Based Benders Decomposition		benchmark, random instance, real-life	0							1016	1323
EmdeZD22 EmdeZD22 [200]	Point-to-point and milk run delivery scheduling: models, complexity results, and algorithms based on Benders decomposition		random instance, github	7							1017	1324
EtminaniesfahaniGNMS22 Etminaniesfa-haniGNMS22 [203]	A Forward–Backward Relax-and-Solve Algorithm for the Resource-Constrained Project Scheduling Problem		real-world	0							1018	1326
FarsiTM22 FarsiTM22 [212]	Integrated surgery scheduling by constraint programming and meta-heuristics		supplementary material	10							1019	1332
FetgoD22 FetgoD22 [215]	Horizontally Elastic Edge-Finder Algorithm for Cumulative Resource Constraint Revisited		benchmark, real-world	7							1020	1334
HeinzNVH22 HeinzNVH22 [299]	Constraint Programming and constructive heuristics for parallel machine scheduling with sequence-dependent setups and common servers		real-world, generated instance, benchmark, gitlab	3							1021	1361
HillBCGN22 HillBCGN22 [305]	Optimization Strategies for Resource-Constrained Project Scheduling Problems in Underground Mining			0							1022	No
JuvinHL22 JuvinHL22 [333]	Logic-Based Benders Decomposition for the Preemptive Flexible Job-Shop Scheduling Problem		benchmark	0							1023	1376
MartnezAJ22 MartnezAJ22 [433]	Logic-Based Benders Decomposition for Integrated Process Configuration and Production Planning Problems			0							1024	No

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
MullerMKP22 MullerMKP22 [456]	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							1025	1423
NaderiBZ22 NaderiBZ22 [462]	Integrated Order Acceptance and Resource Decisions Under Uncertainty: Robust and Stochastic Approaches		benchmark, real-life	0							1026	1424
NaderiBZ22a NaderiBZ22a [461]	Type-2 integrated process-planning and scheduling problem: Reformulation and solution algorithms		benchmark	0							1027	1425
NaderiR22 NaderiR22 [463]	Critical-Path-Search Logic-Based Benders Decomposition Approaches for Flexible Job Shop Scheduling			0							1028	No
OrnekOS20 OrnekOS20 [490]	Integer and constraint programming model formulations for flight-gate assignment problem		real-world, generated instance	0							1029	1442
PohlAK22 PohlAK22 [510]	Solving the time-discrete winter runway scheduling problem: A column generation and constraint programming approach		benchmark, real-world	2							1030	1452
ShiYXQ22 ShiYXQ22 [559]	Solving the integrated process planning and scheduling problem using an enhanced constraint programming-based approach			0							1031	No
SubulanC22 SubulanC22 [575]	Constraint programming-based transformation approach for a mixed fuzzy-stochastic resource investment project scheduling problem		real-world, real-life, benchmark	2							1032	1478
YunusogluY22 YunusogluY22 [658]	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							1033	1500
YuraszeckMPV22 YuraszeckMPV22 [660]	A Novel Constraint Programming Decomposition Approach for the Total Flow Time Fixed Group Shop Scheduling Problem		real-life, generated instance, benchmark, github	5							1034	1502
abs-2211-14492 abs-2211-14492 [576]	Enhancing Constraint Programming via Supervised Learning for Job Shop Scheduling		benchmark, random instance, generated instance	1							1035	1519
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							1036	1261
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							1037	1262
Bedhief21 Bedhief21 [74]	Comparing Mixed-Integer Programming and Constraint Programming Models for the Hybrid Flow Shop Scheduling Problem with Dedicated Machines		real-life	0							1038	1290
CarlierSJP21 CarlierSJP21 [137]	A faster checker of the energetic reasoning for the cumulative scheduling problem			0							1039	No
FanXG21 FanXG21 [211]	Genetic programming-based hyper-heuristic approach for solving dynamic job shop scheduling problem with extended technical precedence constraints		benchmark	0							1040	1331

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
HamPK21 HamPK21 [279]	Energy-Aware Flexible Job Shop Scheduling Using Mixed Integer Programming and Constraint Programming		github, benchmark	4							1041	1355
HubnerGSV21 HubnerGSV21 [322]	Solving the nuclear dismantling project scheduling problem by combining mixed-integer and constraint programming techniques and metaheuristics		benchmark, real-life	4							1042	1371
KoehlerBFFHPSSS21 KoehlerBFFH-PSSS21 [352]	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	1043	1382
NaderiRBAU21 NaderiRBAU21 [464]	Increased Surgical Capacity without Additional Resources: Generalized Operating Room Planning and Scheduling			0							1044	No
PandeyS21a PandeyS21a [497]	Constraint programming versus heuristic approach to MapReduce scheduling problem in Hadoop YARN for energy minimization		benchmark	1							1045	1447
QinWSLS21 QinWSLS21 [519]	A Genetic Programming-Based Scheduling Approach for Hybrid Flow Shop With a Batch Processor and Waiting Time Constraint			0							1046	1457
VlkHT21 VlkHT21 [633]	Constraint programming approaches to joint routing and scheduling in time-sensitive networks		github, benchmark, industrial partner, random instance	0							1047	1493
ZhangYW21 ZhangYW21 [669]	A graph-based constraint programming approach for the integrated process planning and scheduling problem		benchmark	0							1048	1508
abs-2102-08778 abs-2102-08778 [156]	Large-Scale Benchmarks for the Job Shop Scheduling Problem		benchmark, real-life, real-world, generated instance	0							1049	1518
AlizdehS20 AlizdehS20 [16]	Fuzzy project scheduling with critical path including risk and resource constraints using linear programming			0							1050	No
AntunesABD20 AntunesABD20 [20]	Assigning and Scheduling Service Visits in a Mixed Urban/Rural Setting		real-world, industrial partner	1							1051	1271
AstrandJZ20 AstrandJZ20 [38]	Underground mine scheduling of mobile machines using Constraint Programming and Large Neighborhood Search		benchmark, real-life, real-world	0							1052	1274
BadicaBI20 BadicaBI20 [39]	Block structured scheduling using constraint logic programming		real-world, benchmark	5							1053	1275
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				1054	1295
CauwelaertDS20 CauwelaertDS20 [143]	An Efficient Filtering Algorithm for the Unary Resource Constraint with Transition Times and Optional Activities		benchmark, real-life, bitbucket, generated instance	2							1055	1311
FallahiAC20 FallahiAC20 [210]	Tabu search and constraint programming-based approach for a real scheduling and routing problem		github, real-life	0							1056	1330

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
GuoHLW20 GuoHLW20 [271]	Logic-based Benders decomposition for gantry crane scheduling with transferring position constraints in a rail–road container terminal			0							1057	No
HauderBRPA20 HauderBRPA20 [287]	Resource-constrained multi-project scheduling with activity and time flexibility		real-world, industry partner, benchmark, supplementary material	0							1058	1358
LunardiBLRV20 LunardiBLRV20 [417]	Mixed Integer linear programming and constraint programming models for the online printing shop scheduling problem		benchmark, random instance, generated instance, github	1							1059	1407
MejiaY20 MejiaY20 [436]	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							1060	1413
MengZRZL20 MengZRZL20 [440]	Mixed-integer linear programming and constraint programming formulations for solving distributed flexible job shop scheduling problem		benchmark, supplementary material	0							1061	1416
MokhtarzadehTNF20 Mokhtarzade-hTNF20 [448]	Scheduling of human-robot collaboration in assembly of printed circuit boards: a constraint programming approach		generated instance, real-world	12							1062	1420
Polo-MejiaALB20 Polo-MejiaALB20 [511]	Mixed-integer/linear and constraint programming approaches for activity scheduling in a nuclear research facility		Roadef, github	2							1063	1453
QinDCS20 QinDCS20 [520]	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							1064	1456
RoshanaeiBAUB20 RoshanaeiBAUB20 [531]	Branch-and-check methods for multi-level operating room planning and scheduling		benchmark, generated instance, real-world	0							1065	1460
SacramentoSP20 SacramentoSP20 [536]	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							1066	1463
WallaceY20 WallaceY20 [637]	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		1067	1495
ZarandiASC20 ZarandiASC20 [664]	A state of the art review of intelligent scheduling		real-world, benchmark, real-life	0							1068	1503
ZouZ20 ZouZ20 [679]	A constraint programming approach for scheduling repetitive projects with atypical activities considering soft logic		benchmark	3							1069	1511
ArkhipovBL19 ArkhipovBL19 [25]	An efficient pseudo-polynomial algorithm for finding a lower bound on the makespan for the Resource Constrained Project Scheduling Problem		benchmark	1							1070	1272
EdwardsBSE19 EdwardsBSE19 [194]	Symmetry breaking of identical projects in the high-multiplicity RCPSP/max			0							1071	No

Key	Title (Local Copy)	CP System	Bench	Links	Data Avail	Sol Avail	Code Avail	Related To	Classification	Constraints	a	b
EscobetPQPRA19 EscobetPQPRA19 [202]	Optimal batch scheduling of a multiproduct dairy process using a combined optimization/constraint programming approach			1							1072	1325
GurEA19 GurEA19 [682]	Surgical Operation Scheduling with Goal Programming and Constraint Programming: A Case Study		real-life	11							1073	1348
HoundjiSW19 HoundjiSW19 [320]	The item dependent stockingcost constraint		random instance, bit-bucket, benchmark	2							1074	1370
NattafDYW19 NattafDYW19 [470]	Parallel machine scheduling with time constraints on machine qualifications		benchmark	0							1075	1430
NattafHKAL19 NattafHKAL19 [471]	Polyhedral results and valid inequalities for the continuous energy-constrained scheduling problem		benchmark, real-life	0							1076	1431
NishikawaSTT19 NishikawaSTT19 [477]	A Constraint Programming Approach to Scheduling of Malleable Tasks		real-world, benchmark	0							1077	1432
Novas19 Novas19 [479]	Production scheduling and lot streaming at flexible job-shops environments using constraint programming		benchmark	0							1078	1434
WariZ19 WariZ19 [641]	A Constraint Programming model for food processing industry: a case for an ice cream processing facility			0							1079	No
WikarekS19 WikarekS19 [644]	A Constraint-Based Declarative Programming Framework for Scheduling and Resource Allocation Problems			0							1080	1497
YounespourAKE19 YounespourAKE19 [655]	Using mixed integer programming and constraint programming for operating rooms scheduling with modified block strategy		real-life, real-world	6							1081	1499
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							1082	1514
abs-1902-01193 abs-1902-01193 [14]	Solving Nurse Scheduling Problem Using Constraint Programming Technique			0							1083	1515
abs-1902-09244 abs-1902-09244 [286]	On constraint programming for a new flexible project scheduling problem with resource constraints		benchmark, industry partner, real-world	0							1084	1516
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							1085	1517
BaptisteB18 BaptisteB18 [46]	Redundant cumulative constraints to compute preemptive bounds			1							1086	1279
BorghesiBLMB18 BorghesiBLMB18 [116]	Scheduling-based power capping in high performance computing systems		benchmark, real-life	3							1087	1305
CauwelaertLS18 CauwelaertLS18 [142]	How efficient is a global constraint in practice? - A fair experimental framework		benchmark, bit-bucket	1							1088	1312
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	1089	1328

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
GedikKEK18 GedikKEK18 [235]	A constraint programming approach for solving unrelated parallel machine scheduling problem		benchmark	9							1090	1338
GokgurHO18 GokgurHO18 [252]	Parallel machine scheduling with tool loading: a constraint programming approach		real-world, real-life	9							1091	1341
GoldwaserS18 GoldwaserS18 [254]	Optimal Torpedo Scheduling		github, generated instance, instance generator, benchmark	0							1092	1342
GombolayWS18 GombolayWS18 [256]	Fast Scheduling of Robot Teams Performing Tasks With Temporospatial Constraints		real-world, instance generator, benchmark	0							1093	1343
Ham18 Ham18 [277]	Integrated scheduling of m-truck, m-drone, and m-depot constrained by time-window, drop-pickup, and m-visit using constraint programming			7							1094	1352
Ham18a Ham18a [278]	Scheduling of Dual Resource Constrained Lithography Production: Using CP and MIP/CP		real-world	0							1095	1353
KreterSSZ18 KreterSSZ18 [368]	Mixed-integer linear programming and constraint programming formulations for solving resource availability cost problems		benchmark	6							1096	1388
LaborieRSV18 LaborieRSV18 [376]	IBM ILOG CP optimizer for scheduling - 20+ years of scheduling with constraints at IBM/ILOG	OP Opt	real-world, CSPlib, benchmark	3	-		-	-	-	-	1097	1392
PourDERB18 PourDERB18 [513]	A hybrid Constraint Programming/Mixed Integer Programming framework for the preventive signaling maintenance crew scheduling problem		real-world, real-life, benchmark, generated instance	1							1098	1454
ShinBBHO18 ShinBBHO18 [560]	Discrete-Event Simulation and Integer Linear Programming for Constraint-Aware Resource Scheduling		real-world, github	4							1099	1472
TangLWSK18 TangLWSK18 [584]	Scheduling Optimization of Linear Schedule with Constraint Programming			0							1100	1480
TranPZLDB18 TranPZLDB18 [607]	Multi-stage resource-aware scheduling for data centers with heterogeneous servers		benchmark, generated instance	2							1101	1488
ZhangW18 ZhangW18 [670]	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							1102	1507
GomesM17 GomesM17 [258]	Improved Combinatorial Benders Decomposition for a Scheduling Problem with Unrelated Parallel Machines			1							1103	1344
HookerH17 HookerH17 [318]	Constraint programming and operations research		real-world, real-life	1							1104	1368
KreterSS17 KreterSS17 [367]	Using constraint programming for solving RCPSP/max-cal	MiniZinc Chuffed Cplex	benchmark	5	dead		[366]		RCPSP	cumulative cumulativeCalendar	1105	1387
NattafAL17 NattafAL17 [468]	Cumulative scheduling with variable task profiles and concave piecewise linear processing rate functions	Cplex	real-world	2	n		n	-	CECSP	-	1106	1428
RoshanaeiLAU17 RoshanaeiLAU17 [532]	Propagating logic-based Benders' decomposition approaches for distributed operating room scheduling		real-world	1							1107	1461

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
RoshanaeiLAU17a RoshanaeiLAU17a [533]	Collaborative Operating Room Planning and Scheduling			0							1108	No
TranVNB17 TranVNB17 [609]	Robots in Retirement Homes: Applying Off-the-Shelf Planning and Scheduling to a Team of Assistive Robots		real-world	0							1109	1489
BlomPS16 BlomPS16 [100]	A Decomposition-Based Algorithm for the Scheduling of Open-Pit Networks Over Multiple Time Periods		industry partner, benchmark	0							1110	1301
Bonfietti16 Bonfietti16 [106]	A constraint programming scheduling solver for the MPOpt programming environment		benchmark	10							1111	1303
BridiBLMB16 BridiBLMB16 [121]	A Constraint Programming Scheduler for Heterogeneous High-Performance Computing Machines		real-life, real-world	0							1112	1307
CireCH16 CireCH16 [151]	Logic-based Benders decomposition for planning and scheduling: a computational analysis			1							1113	1314
DoulabiRP16 DoulabiRP16 [191]	A Constraint-Programming-Based Branch-and-Price-and-Cut Approach for Operating Room Planning and Scheduling		real-world, generated instance	3							1114	1322
HamC16 HamC16 [280]	Flexible job shop scheduling problem with parallel batch processing machines: MIP and CP approaches		benchmark	2							1115	1354
HebrardHJMPV16 HebrardHJMPV16 [290]	Approximation of the parallel machine scheduling problem with additional unit resources		industrial partner	0							1116	1359
KuB16 KuB16 [369]	Mixed Integer Programming models for job shop scheduling: A computational analysis		benchmark	4							1117	1389
NattafALR16 NattafALR16 [469]	Energetic reasoning and mixed-integer linear programming for scheduling with a continuous resource and linear efficiency functions		generated instance	1							1118	1429
NovaraNH16 NovaraNH16 [478]	A novel constraint programming model for large-scale scheduling problems in multiproduct multistage batch plants: Limited resources and campaign-based operation		CSPlib, benchmark	5							1119	1433
OrnekO16 OrnekO16 [489]	Optimisation and Constraint Based Heuristic Methods for Advanced Planning and Scheduling Systems		real-world, real-life	0							1120	1441
TranAB16 TranAB16 [604]	Decomposition Methods for the Parallel Machine Scheduling Problem with Setups		benchmark	0							1121	1487
ZarandiKS16 ZarandiKS16 [663]	A constraint programming model for the scheduling of JIT cross-docking systems with preemption		real-world	0							1122	1504
BajestaniB15 BajestaniB15 [43]	A two-stage coupled algorithm for an integrated maintenance planning and flowshop scheduling problem with deteriorating machines		real-world	0							1123	1277
EvenSH15a EvenSH15a [205]	A Constraint Programming Approach for Non-Preemptive Evacuation Scheduling		real-world, real-life	2							1124	1327
GoelSHFS15 GoelSHFS15 [250]	Constraint programming for LNG ship scheduling and inventory management			0							1125	1339
GrimesH15 GrimesH15 [261]	Solving Variants of the Job Shop Scheduling Problem Through Conflict-Directed Search		real-world, benchmark	0							1126	1345
Kameugne15 Kameugne15 [338]	Propagation techniques of resource constraint for cumulative scheduling	-		2	-		-	PhDThesis	RCPSP		1127	1378

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
LetortCB15 LetortCB15 [389]	Synchronized sweep algorithms for scalable scheduling constraints	Choco SICStus	generated instance, Roadef, benchmark, random instance	4	dead		-	[388]	-	cumulative dimCumulative dimCumulativePr	1128	1395
NattafAL15 NattafAL15 [467]	A hybrid exact method for a scheduling problem with a continuous resource and energy constraints	Cplex	generated instance	1	n		n		CSCSP		1129	1427
OzturkTHO15 OzturkTHO15 [681]	Cyclic scheduling of flexible mixed model assembly lines with parallel stations		real-life	24							1130	1446
SchnellH15 SchnellH15 [543]	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							1131	1468
Siala15 Siala15 [561]	Search, propagation, and learning in sequencing and scheduling problems	-	real-world, github, benchmark, random instance, Roadef, CSPlib	2	-		-	PhD Thesis			1132	1473
SimoninAHL15 SimoninAHL15 [565]	Scheduling scientific experiments for comet exploration	MOST Ilog Scheduler		0	n		n	[564]		cumulative dataTransfer	1133	1474
WangMD15 WangMD15 [640]	Scheduling operating theatres: Mixed integer programming vs. constraint programming		real-life, real-world	2							1134	1496
BlomBPS14 BlomBPS14 [99]	A Decomposition-Based Heuristic for Collaborative Scheduling in a Network of Open-Pit Mines		industry partner, benchmark	0							1135	1300
BonfiettiLBM14 BonfiettiLBM14 [109]	CROSS cyclic resource-constrained scheduling solver		benchmark, real-world, generated instance, industrial instance	0							1136	1304
GrimesIOS14 GrimesIOS14 [263]	Analyzing the impact of electricity price forecasting on energy cost-aware scheduling		real-world, real-life	9							1137	1346
HarjunkoskiMBC14 HarjunkoskiMBC14 [283]	Scope for industrial applications of production scheduling models and solution methods		real-life, benchmark, real-world	3							1138	1357
KameugneFSN14 KameugneFSN14 [342]	A quadratic edge-finding filtering algorithm for cumulative resource constraints	Gecode	benchmark, random instance	2	y			[341]	CuSP	cumulative	1139	1379
NovasH14 NovasH14 [482]	Integrated scheduling of resource-constrained flexible manufacturing systems using constraint programming		benchmark	0							1140	1437
TerekhovTDB14 TerekhovTDB14 [591]	Integrating Queueing Theory and Scheduling for Dynamic Scheduling Problems		real-world	0							1141	1482
ThiruvadyWGS14 ThiruvadyWGS14 [595]	A Lagrangian relaxation and ACO hybrid for resource constrained project scheduling with discounted cash flows		benchmark	0							1142	1483
BajestaniB13 BajestaniB13 [42]	Scheduling a Dynamic Aircraft Repair Shop with Limited Repair Resources			0							1143	1276
BegB13 BegB13 [75]	A constraint programming approach for integrated spatial and temporal scheduling for clustered architectures		benchmark	0							1144	1291
HeinzSB13 HeinzSB13 [298]	Using dual presolving reductions to reformulate cumulative constraints	Cplex SCIP	benchmark	1	ref		-	-	RCPSP RCPSP/max	cumulative	1145	1362
LombardiMB13 LombardiMB13 [411]	Robust Scheduling of Task Graphs under Execution Time Uncertainty		benchmark, real-world	0							1146	1402

Key	Title (Local Copy)	CP System	Bench	Links	Data Avail	Sol Avail	Code Avail	Related To	Classification	Constraints	a	b
MenciaSV13 MenciaSV13 [439]	Intensified iterative deepening A* with application to job shop scheduling		real-life, supplementary material, benchmark	0							1147	1415
OzturkTHO13 OzturkTHO13 [496]	Balancing and scheduling of flexible mixed model assembly lines	Ilog Solver Ilog Scheduler Cplex	real-world, real-life	2	y		-	-	SBSFMMAL	alldifferent disjunctive	1148	1445
SchuttFSW13 SchuttFSW13 [551]	Solving RCPSP/max by lazy clause generation		supplementary material, benchmark	6							1149	1470
GuyonLPR12 GuyonLPR12 [274]	Solving an integrated job-shop problem with human resource constraints		generated instance, benchmark, instance generator	0							1150	1350
HeinzSSW12 HeinzSSW12 [296]	Solving steel mill slab design problems		real-world, CSPlib	2	Cplex		dead	-	SMSDP	-	1151	1363
LimtanyakulS12 LimtanyakulS12 [397]	Improvements of constraint programming and hybrid methods for scheduling of tests on vehicle prototypes	Cplex Ilog Scheduler	real-life, generated instance, industrial partner, benchmark, random instance	1	dead		-	-			1152	1398
LombardiM12 LombardiM12 [409]	Optimal methods for resource allocation and scheduling: a cross-disciplinary survey	-	real-world, benchmark	0	-		-	-	survey	-	1153	1400
LombardiM12a LombardiM12a [408]	A min-flow algorithm for Minimal Critical Set detection in Resource Constrained Project Scheduling		benchmark	1							1154	1401
MalapertCGJLR12 MalapertCGJLR12 [425]	An Optimal Constraint Programming Approach to the Open-Shop Problem		benchmark	3							1155	1408
MenciaSV12 MenciaSV12 [438]	Depth-first heuristic search for the job shop scheduling problem		real-life, benchmark	1							1156	1414
NovasH12 NovasH12 [481]	A comprehensive constraint programming approach for the rolling horizon-based scheduling of automated wet-etch stations			0							1157	1436
OzturkTHO12 OzturkTHO12 [680]	A Constraint Programming Model for Balancing and Scheduling of Flexible Mixed Model Assembly Lines with Parallel Stations			0							1158	1444
TerekhovDOB12 TerekhovDOB12 [590]	Solving two-machine assembly scheduling problems with inventory constraints		real-life	2							1159	1481
ZarandiB12 ZarandiB12 [214]	Using Logic-Based Benders Decomposition to Solve the Capacity- and Distance-Constrained Plant Location Problem			0							1160	No
BandaSC11 BandaSC11 [171]	Solving Talent Scheduling with Dynamic Programming		benchmark, CSPlib, random instance	0							1161	1278
BartakS11 BartakS11 [57]	Constraint satisfaction for planning and scheduling problems	-	random instance, real-world, real-life	2	-		-		survey		1162	1282
BeckFW11 BeckFW11 [66]	Combining Constraint Programming and Local Search for Job-Shop Scheduling		benchmark, real-world	0							1163	1287
BeldiceanuCDP11 BeldiceanuCDP11 [80]	New filtering for the *cumulative* constraint in the context of non-overlapping rectangles		benchmark	1							1164	1293
BeniniLMR11 BeniniLMR11 [90]	Optimal resource allocation and scheduling for the CELL BE platform		real-world, benchmark, instance generator	0							1165	1296
CobanH11 CobanH11 [154]	Single-facility scheduling by logic-based Benders decomposition		random instance	0							1166	1315

Key	Title (Local Copy)	CP System	Bench	Links	Data Avail	Sol Avail	Code Avail	Related To	Classification	Constraints	a	b
EdisO11a EdisO11a [193]	A combined integer/constraint programming approach to a resource-constrained parallel machine scheduling problem with machine eligibility restrictions			0							1167	No
HachemiGR11 HachemiGR11 [276]	A hybrid constraint programming approach to the log-truck scheduling problem			1							1168	1351
HeckmanB11 HeckmanB11 [293]	Understanding the behavior of Solution-Guided Search for job-shop scheduling		real-world, benchmark	0							1169	1360
KelbelH11 KelbelH11 [345]	Solving production scheduling with earliness/tardiness penalties by constraint programming		generated instance, benchmark, random instance	3							1170	1380
KovacsB11 KovacsB11 [360]	A global constraint for total weighted completion time for unary resources	Ilog Scheduler	benchmark	2	n		n	-		Completion	1171	1385
KovacsK11 KovacsK11 [362]	Constraint programming approach to a bilevel scheduling problem	Ilog Solver		2	n		n	-	Bilevel Opt		1172	1386
SchausHMCMD11 SchausHMCMD11 [541]	Solving Steel Mill Slab Problems with constraint-based techniques: CP, LNS, and CBLS	Comet	benchmark, CSPlib, generated instance	3	dead				SMSDP		1173	1466
SchuttFSW11 SchuttFSW11 [550]	Explaining the cumulative propagator	MiniZinc	real-world, benchmark	7	PSPLib		-	-	RCPSP	cumulative	1174	1469
TopalogluO11 TopalogluO11 [600]	A constraint programming-based solution approach for medical resident scheduling problems		real-life	2							1175	1485
TrojetHL11 TrojetHL11 [612]	Project scheduling under resource constraints: Application of the cumulative global constraint in a decision support framework		real-world	2							1176	1490
BartakCS10 BartakCS10 [56]	Discovering implied constraints in precedence graphs with alternatives		real-life, benchmark, real-world	3							1177	1281
BartakSR10 BartakSR10 [58]	New trends in constraint satisfaction, planning, and scheduling: a survey		real-life, real-world	0							1178	1283
ChenGPSH10 ChenGPSH10 [147]	Technology and system of constraint programming for industry production scheduling — Part I: A brief survey and potential directions		real-life	0							1179	1313
LombardiM10a LombardiM10a [406]	Allocation and scheduling of Conditional Task Graphs		benchmark, real-life, real-world	3							1180	1399
LombardiMRB10 LombardiMRB10 [412]	Stochastic allocation and scheduling for conditional task graphs in multi-processor systems-on-chip		real-world, real-life, benchmark	15							1181	1403
LopesCSM10 LopesCSM10 [413]	A hybrid model for a multiproduct pipeline planning and scheduling problem	Ilog Solver	benchmark, real-world	2	-		-	[455, 454]			1182	1404
NovasH10 NovasH10 [480]	Reactive scheduling framework based on domain knowledge and constraint programming			0							1183	1435
OzturkTHO10 OzturkTHO10 [495]	Simultaneous Balancing and Scheduling of Flexible Mixed Model Assembly Lines with Sequence-Dependent Setup Times			0							1184	1443
ZeballosQH10 ZeballosQH10 [666]	A constraint programming model for the scheduling of flexible manufacturing systems with machine and tool limitations		real-world, benchmark	4							1185	1506
abs-1009-0347 abs-1009-0347 [549]	Solving the Resource Constrained Project Scheduling Problem with Generalized Precedences by Lazy Clause Generation		benchmark, instance generator	0							1186	1513

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
BidotVLB09 BidotVLB09 [94]	A theoretic and practical framework for scheduling in a stochastic environment		real-world, real-life	0							1187	1298
BocewiczBB09 BocewiczBB09 [101]	Logic-algebraic method based and constraints programming driven approach to AGVs scheduling			0							1188	1302
CarchraeB09 CarchraeB09 [132]	Principles for the Design of Large Neighborhood Search		benchmark, real-world	2							1189	1310
GarridoAO09 GarridoAO09 [229]	A constraint programming formulation for planning: from plan scheduling to plan generation		benchmark	8							1190	1336
Jans09 Jans09 [328]	Solving Lot-Sizing Problems on Parallel Identical Machines Using Symmetry-Breaking Constraints		benchmark	27							1191	1375
MilanoW09 MilanoW09 [446]	Integrating Operations Research in Constraint Programming		benchmark	7							1192	1419
OhrimenkoSC09 OhrimenkoSC09 [488]	Propagation via lazy clause generation		benchmark	8							1193	1440
RuggieroBBMA09 RuggieroBBMA09 [535]	Reducing the Abstraction and Optimality Gaps in the Allocation and Scheduling for Variable Voltage/Frequency MPSoC Platforms		instance generator, real-life	0							1194	1462
WuBB09 WuBB09 [653]	Scheduling with uncertain durations: Modeling beta-robust scheduling with constraints		real-world	0							1195	1498
abs-0907-0939 abs-0907-0939 [507]	The Soft Cumulative Constraint		real-world	0							1196	1512
GarridoOS08 GarridoOS08 [230]	Planning and scheduling in an e-learning environment. A constraint-programming-based approach		real-world	0							1197	1337
KovacsB08 KovacsB08 [359]	A global constraint for total weighted completion time for cumulative resources		benchmark	0							1198	1384
LiW08 LiW08 [390]	Scheduling projects with multi-skilled personnel by a hybrid MILP/CP benders decomposition algorithm		real-world	1							1199	1396
LiessM08 LiessM08 [392]	A constraint programming approach for the resource-constrained project scheduling problem		benchmark	0							1200	1397
MalikMB08 MalikMB08 [429]	Optimal Basic Block Instruction Scheduling for Multiple-Issue Processors Using Constraint Programming		benchmark	0							1201	1409
MercierH08 MercierH08 [441]	Edge Finding for Cumulative Scheduling			0							1202	1417
Beck07 Beck07 [64]	Solution-Guided Multi-Point Constructive Search for Job Shop Scheduling		benchmark	0							1203	1284
BeckW07 BeckW07 [73]	Proactive Algorithms for Job Shop Scheduling with Probabilistic Durations		benchmark	0							1204	1289
CorreaLR07 CorreaLR07 [159]	Scheduling and routing of automated guided vehicles: A hybrid approach		real-world	0							1205	1317
Hooker07 Hooker07 [313]	Planning and Scheduling by Logic-Based Benders Decomposition		random instance, generated instance	0							1206	1367
Rodriguez07 Rodriguez07 [527]	A constraint programming model for real-time train scheduling at junctions		real-life	2							1207	1458
Simonis07 Simonis07 [569]	Models for Global Constraint Applications	CHIP		0	n		n			cumulative diffn cycle inverse	1208	1475

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Key	Title (Local Copy)	CP System	Bench	Links	Data Avail	Sol Avail	Code Avail	Related To	Classification	Constraints	a	b
Hooker06 Hooker06 [312]	An Integrated Method for Planning and Scheduling to Minimize Tardiness	OPL Cplex Ilog Scheduler	random instance	2	n		n	[311]	CuSP	cumulative	1209	1366
KhayatLR06 KhayatLR06 [347]	Integrated production and material handling scheduling using mathematical programming and constraint programming		real-life, benchmark	1							1210	1381
MilanoW06 MilanoW06 [445]	Integrating operations research in constraint programming		benchmark	0							1211	1418
SadykovW06 SadykovW06 [538]	Integer Programming and Constraint Programming in Solving a Multimachine Assignment Scheduling Problem with Deadlines and Release Dates		generated instance	1							1212	1464
SureshMOK06 SureshMOK06 [578]	Divisible load scheduling in distributed system with buffer constraints: genetic algorithm and linear programming approach			0							1213	1479
DemasseyAM05 DemasseyAM05 [177]	Constraint-Propagation-Based Cutting Planes: An Application to the Resource-Constrained Project Scheduling Problem		benchmark	2							1214	1320
Hooker05 Hooker05 [310]	A Hybrid Method for the Planning and Scheduling	OPL Cplex Ilog Scheduler	random instance	0	n		n	[309]	CuSP	cumulative	1215	1365
VilimBC05 VilimBC05 [630]	Extension of $O(n \log n)$ Filtering Algorithms for the Unary Resource Constraint to Optional Activities		benchmark, real-life	0	n		n	[629]	JSSP	disjunctive	1216	1492
ZeballosH05 ZeballosH05 [665]	A Constraint Programming Approach to FMS Scheduling. Consideration of Storage and Transportation Resources			0							1217	1505
PoderBS04 PoderBS04 [509]	Computing a lower approximation of the compulsory part of a task with varying duration and varying resource consumption			0							1218	1451
BeckR03 BeckR03 [70]	A Hybrid Approach to Scheduling with Earliness and Tardiness Costs		benchmark	0							1219	1288
HookerO03 HookerO03 [317]	Logic-based Benders decomposition		generated instance	0							1220	1369
KuchcinskiW03 KuchcinskiW03 [370]	Global approach to assignment and scheduling of complex behaviors based on HCDG and constraint programming		benchmark	0							1221	1390
Laborie03 Laborie03 [373]	Algorithms for propagating resource constraints in AI planning and scheduling: Existing approaches and new results		benchmark	0							1222	1391
Tsang03 Tsang03 [613]	Constraint Based Scheduling: Applying Constraint Programming to Scheduling Problems		real-life	0							1223	1491
HarjunkoskiG02 HarjunkoskiG02 [282]	Decomposition techniques for multistage scheduling problems using mixed-integer and constraint programming methods			0							1224	1356
LorigeonBB02 LorigeonBB02 [415]	A dynamic programming algorithm for scheduling jobs in a two-machine open shop with an availability constraint			0							1225	1406
MilanoORT02 MilanoORT02 [444]	The Role of Integer Programming Techniques in Constraint Programming's Global Constraints			0							1226	No
RodriguezDG02 RodriguezDG02 [529]	Railway infrastructure saturation using constraint programming approach			0							1227	1459
Timpe02 Timpe02 [598]	Solving planning and scheduling problems with combined integer and constraint programming			0							1228	1484

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
JainG01 JainG01 [327]	Algorithms for Hybrid MILP/CP Models for a Class of Optimization Problems			0							1229	1373
MartinPY01 MartinPY01 [432]	Cane Railway Scheduling via Constraint Logic Programming: Labelling Order and Constraints in a Real-Life Application		real-life	0							1230	1411
Mason01 Mason01 [434]	Elastic Constraint Branching, the Wedelin/Carmen Lagrangian Heuristic and Integer Programming for Personnel Scheduling			0							1231	1412
ArtiguesR00 ArtiguesR00 [33]	A polynomial activity insertion algorithm in a multi-resource schedule with cumulative constraints and multiple modes			0							1232	1273
BaptisteP00 BaptisteP00 [49]	Constraint Propagation and Decomposition Techniques for Highly Disjunctive and Highly Cumulative Project Scheduling Problems	CLAIRE	benchmark	0	n		n		RCCSP	cumulative	1233	1280
BeckF00 BeckF00 [68]	Dynamic problem structure analysis as a basis for constraint-directed scheduling heuristics		real-world, benchmark	0							1234	1285
HeipckeCCS00 HeipckeCCS00 [301]	Scheduling under Labour Resource Constraints	COME SchedEns	benchmark, instance generator	0	dead		n	-			1235	1364
KorbaaYG00 KorbaaYG00 [356]	Solving Transient Scheduling Problems with Constraint Programming			0							1236	1383
LopezAKYG00 LopezAKYG00 [414]	Discussion on: 'Solving Transient Scheduling Problems with Constraint Programming' by O. Korbaa, P. Yim, and J.-C. Gentina			0							1237	1405
SakkoutW00 SakkoutW00 [539]	Probe Backtrack Search for Minimal Perturbation in Dynamic Scheduling	Cplex ECLiPSe	benchmark, real-world	0	n		n	-	KRFP		1238	1465
SchildW00 SchildW00 [542]	Scheduling of Time-Triggered Real-Time Systems	OZ		0	n		n	-		disjunctive	1239	1467
SimonisCK00 SimonisCK00 [570]	Constraint Handling in an Integrated Transportation Problem			0							1240	1476
SourdN00 SourdN00 [573]	Multiple-Machine Lower Bounds for Shop-Scheduling Problems		real-life, benchmark	1							1241	1477
TorresL00 TorresL00 [601]	On Not-First/Not-Last conditions in disjunctive scheduling		benchmark	0							1242	1486
BensanaLV99 BensanaLV99 [91]	Earth Observation Satellite Management	Ilog Solver	benchmark	0	?		-	-			1243	1297
JainM99 JainM99 [326]	Deterministic job-shop scheduling: Past, present and future		benchmark, real-world, real-life	0							1244	1374
BeckF98 BeckF98 [67]	A Generic Framework for Constraint-Directed Search and Scheduling		real-world, benchmark	0							1245	1286
BelhadjiI98 BelhadjiI98 [83]	Temporal Constraint Satisfaction Techniques in Job Shop Scheduling Problem Solving	-	real-life	0	n		n	-	TCSP JSSP		1246	1294
NuijtenP98 NuijtenP98 [484]	Constraint-Based Job Shop Scheduling with \sc Ilog Scheduler		real-life	0							1247	1439
PapaB98 PapaB98 [500]	Resource Constraints for Preemptive Job-shop Scheduling	Ilog Solver Claire	benchmark	0	dead		-	-	PJSSP	disjunctive flow	1248	1448
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, benchmark	0	n		n	-	MGAP		1249	1319
FalaschiGMP97 FalaschiGMP97 [209]	Constraint Logic Programming with Dynamic Scheduling: A Semantics Based on Closure Operators			0							1250	1329
LammaMM97 LammaMM97 [381]	A distributed constraint-based scheduler		real-life	0							1251	1394

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Key	Title (Local Copy)	CP System	Bench	Links	Data Avail	Sol Avail	Code Avail	Related To	Classification	Constraints	a	b
Zhou97 Zhou97 [673]	A Permutation-Based Approach for Solving the Job-Shop Problem	-	benchmark	0	n		n	[672]	JSSP	sort alldifferent permutation	1252	1509
BlazewiczDP96 BlazewiczDP96 [126]	The job shop scheduling problem: Conventional and new solution techniques		benchmark	0							1253	1299
NuijtenA96 NuijtenA96 [485]	A computational study of constraint satisfaction for multiple capacitated job shop scheduling			0							1254	1438
Wallace96 Wallace96 [635]	Practical Applications of Constraint Programming	-		0	-		-	-	Survey	-	1255	1494
BeldiceanuC94 BeldiceanuC94 [78]	Introducing Global Constraints in CHIP		real-world, real-life, benchmark	0							1256	1292
Pape94 Pape94 [498]	Implementation of resource constraints in ILOG SCHEDULE: a library for the development of constraint-based scheduling systems			0							1257	1449
AggounB93 AggounB93 [9]	Extending CHIP in order to solve complex scheduling and placement problems		real-world	0							1258	1268
Tay92 Tay92 [588]	COPS: A Constraint Programming Approach to Resource-Limited Project Scheduling			0							1259	No
DincbasSH90 DincbasSH90 [185]	Solving Large Combinatorial Problems in Logic Programming		real-life	0							1260	1321

4 Authors

Table 8: Co-Authors of Articles/Papers

Author	Nr Works	Nr Cites	Entries
J. Christopher Beck	49	701	LuoB22 [420], ZhangBB22 [668], TangB20 [583], RoshanaeiBAUB20 [531], TranPZLDB18 [607], TranVNB17 [609], TranVNB17a [610], CohenHB17 [155], BoothNB16 [115], KuB16 [369], TranAB16 [604], TranWDRFOVB16 [611], LuoVLBM16 [419], TranDRFWOVB16 [606], BajestaniB15 [43], KoschB14 [357], TerekhovTDB14 [591], LouieVNB14 [416], HeinzSB13 [298], HeinzKB13 [295], BajestaniB13 [42], TranTDB13 [608], HeinzB12 [294], TerekhovDOB12 [590], TranB12 [605], ZarandiB12 [214], KovacsB11 [360], BeckFW11 [66], HeckmanB11 [293], BajestaniB11 [41], WuBB09 [653], BidotVLB09 [94], CarchraeB09 [132], WatsonB08 [642], KovacsB08 [359], BeckW07 [73], Beck07 [64], KovacsB07 [358], Beck06 [63], CarchraeBF05 [133], WuBB05 [652], 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 [403], BartoliniBBLM14 [60], BonfiettiLM14 [111], BonfiettiLBM14 [109], BonfiettiLM13 [110], LombardiM13 [410], LombardiMB13 [411], LombardiM12 [409], BonfiettiLBM12 [108], LombardiM12a [408], BonfiettiM12 [112], BonfiettiLBM11 [107], LombardiBMB11 [404], BeniniLMR11 [90], Milano11 [443], LombardiM10 [407], LombardiM10a [406], LombardiMRB10 [412], LombardiM09 [405], RuggieroBBMA09 [535], MilanoW09 [446], BeniniLMR08 [89], BeniniBGM06 [88], MilanoW06 [445], MilanoORT02 [444], LammaMM97 [381], BrusoniCLMMT96 [124]
Andreas Schutt	27	322	YangSS19 [654], KreterSSZ18 [368], GoldwaserS18 [254], MusliuSS18 [460], KreterSS17 [367], YoungFS17 [656], GoldwaserS17 [253], SchuttS16 [553], SzerediS16 [580], KreterSS15 [366], EvenSH15 [204], EvenSH15a [205], SchuttFSW15 [552], ThiruvadyWGS14 [595], GuSSWC14 [269], SchuttFS13 [547], SchuttFS13a [546], GuSS13 [268], SchuttFSW13 [551], ChuGNSW13 [148], SchuttCSW12 [545], SchuttFSW11 [550], Schutt11 [544], SchuttW10 [554], abs-1009-0347 [549], SchuttFSW09 [548], SchuttWS05 [555]
Peter J. Stuckey	25	455	GokGSTO20 [251], YangSS19 [654], DemirovicS18 [178], KreterSSZ18 [368], MusliuSS18 [460], KreterSS17 [367], SchuttS16 [553], BlomPS16 [100], KreterSS15 [366], BurtLPS15 [125], SchuttFSW15 [552], BlomBPS14 [99], LipovetzkyBPS14 [398], GuSSWC14 [269], SchuttFS13 [547], SchuttFS13a [546], GuSS13 [268], SchuttFSW13 [551], SchuttCSW12 [545], GuSW12 [270], SchuttFSW11 [550], BandaSC11 [171], abs-1009-0347 [549], SchuttFSW09 [548], OhrimenkoSC09 [488]
Michele Lombardi	25	194	BorghesiBLMB18 [116], CauwelaertLS18 [142], BonfiettiZLM16 [113], BridiBLMB16 [121], BridiLBBM16 [122], LombardiBM15 [403], BartoliniBBLM14 [60], BonfiettiLM14 [111], BonfiettiLBM14 [109], BonfiettiLM13 [110], LombardiM13 [410], LombardiMB13 [411], LombardiM12 [409], BonfiettiLBM12 [108], LombardiM12a [408], BonfiettiLBM11 [107], LombardiBMB11 [404], BeniniLMR11 [90], LombardiM10 [407], LombardiM10a [406], Lombardi10 [402], LombardiMRB10 [412], LombardiM09 [405], BeniniLMR08 [89], HoeveGSL07 [619]
John N. Hooker	19	1316	ElciOH22 [196], Hooker19 [316], Hooker17 [315], HookerH17 [318], HechingH16 [292], CireCH16 [151], HarjunkoskiMBC14 [283], CireCH13 [150], CobanH11 [154], CobanH10 [153], Hooker10 [314], Hooker07 [313], Hooker06 [312], Hooker05 [310], Hooker05a [311], Hooker04 [309], HookerO03 [317], HookerY02 [319], Hooker00 [308]
Emmanuel Hebrard	17	71	JuvinHHL23 [332], HebrardALLCMR22 [289], AntuoriHHEN21 [22], ArtiguesHQT21 [32], GodetLHS20 [249], AntuoriHHEN20 [21], HebrardHJMPV16 [290], SimoninAHL15 [565], SialaAH15 [563], GrimesH15 [261], BessiereHMQW14 [93], SimoninAHL12 [564], BillautHL12 [95], GrimesH11 [260], GrimesH10 [259], GrimesHM09 [262], HebrardTW05 [291]
Pierre Lopez	17	90	JuvinHHL23 [332], JuvinHL23a [335], JuvinHL23 [334], HebrardALLCMR22 [289], JuvinHL22 [333], Polo-MejiaALB20 [511], NattafHKAL19 [471], NattafAL17 [468], NattafALR16 [469], SimoninAHL15 [565], NattafAL15 [467], SimoninAHL12 [564], BillautHL12 [95], LahimerLH11 [379], TrojetHL11 [612], LopezAKYG00 [414], TorresL00 [601]
Christian Artigues	16	203	PovedaAA23 [514], PohlAK22 [510], HebrardALLCMR22 [289], ArtiguesHQT21 [32], Polo-MejiaALB20 [511], NattafHKAL19 [471], NattafAL17 [468], NattafALR16 [469], SimoninAHL15 [565], NattafAL15 [467], SialaAH15 [563], SimoninAHL12 [564], NeronABCDD06 [486], DemasseyAM05 [177], ArtiguesBF04 [30], ArtiguesR00 [33]
Pierre Schaus	15	79	CauwelaertDS20 [143], ThomasKS20 [596], HoundjiSW19 [320], CappartTSR18 [131], CauwelaertLS18 [142], CappartS17 [130], CauwelaertDMS16 [141], DejemeppeCS15 [174], GayHLS15 [231], GayHS15 [232], GayHS15a [233], HoundjiSWD14 [321], GaySS14 [234], SchausHMCMD11 [541], SchausD08 [540]
Helmut Simonis	15	154	ArmstrongGOS22 [27], ArmstrongGOS21 [26], AntunesABD20 [20], AntunesABD18 [19], HurleyOS16 [323], GrimesIOS14 [263], IfrimOS12 [324], SimonisH11 [572], Simonis07 [569], SimonisCK00 [570], Simonis99 [568], SimonisC95 [571], Simonis95 [567], Simonis95a [566], DincbasSH90 [185]
Nicolas Beldiceanu	13	274	Madi-WambaLOBM17 [422], Madi-WambaB16 [421], LetortCB15 [389], LetortCB13 [388], LetortBC12 [387], ClercqPBJ11 [152], BeldiceanuCDP11 [80], BeldiceanuCP08 [81], PoderB08 [508], BeldiceanuP07 [82], PoderBS04 [509], BeldiceanuC02 [79], AggounB93 [9]
Luca Benini	13	146	BorghesiBLMB18 [116], BridiBLMB16 [121], BridiLBBM16 [122], BonfiettiLBM14 [109], LombardiMB13 [411], BonfiettiLBM12 [108], BonfiettiLBM11 [107], LombardiBMB11 [404], BeniniLMR11 [90], LombardiMRB10 [412], RuggieroBBMA09 [535], BeniniLMR08 [89], BeniniBGM06 [88]
Philippe Laborie	12	513	LunardiBLRV20 [417], LaborieRSV18 [376], Laborie18a [375], MelgarejoLS15 [11], VilimLS15 [631], Laborie09 [374], BidotVLB09 [94], BaptisteLPN06 [47], NeronABCDD06 [486], GodardLN05 [247], Laborie03 [373], FocacciLN00 [216]
Philippe Baptiste	11	403	BaptisteB18 [46], Baptiste09 [45], BaptisteLPN06 [47], NeronABCDD06 [486], ArtiouchineB05 [34], Baptiste02 [44], BaptistePN01 [50], BaptisteP00 [49], PapaB98 [500], BaptisteP97 [48], PapeB97 [499]
Roman Barták	11	88	SvancaraB22 [579], JelinekB16 [329], BartakV15 [59], Bartak14 [55], BartakS11 [57], BartakCS10 [56], BartakSR10 [58], VilimBC05 [630], VilimBC04 [629], Bartak02 [54], Bartak02a [53]

Table 8: Co-Authors of Articles/Papers

Author	Nr Works	Nr Cites	Entries
Petr Vilím	11	313	LaborieRSV18 [376], VilimLS15 [631], Vilim11 [628], Vilim09 [626], Vilim09a [627], VilimBC05 [630], Vilim05 [625], VilimBC04 [629], Vilim04 [624], Vilim03 [623], Vilim02 [622]
Mark Wallace	11	296	WallaceY20 [637], He0GLW18 [288], ThiruvadyWGS14 [595], SchuttFSW09 [548], MilanoW09 [446], MilanoW06 [445], Wallace06 [636], SakkoutW00 [539], RodosekW98 [526], Wallace96 [635], Wallace94 [634]
Alessio Bonfietti	10	17	BonfiettiZLM16 [113], Bonfietti16 [106], LombardiBM15 [403], BonfiettiLM14 [111], BonfiettiLBM14 [109], BonfiettiLM13 [110], Bonfiet- tiLBM12 [108], BonfiettiM12 [112], BonfiettiLBM11 [107], LombardiBMB11 [404]
Margaux Nattaf	10	49	BonninMNE24 [114], PenzDN23 [503], NattafM20 [472], MalapertN19 [427], NattafDYW19 [470], NattafHKAL19 [471], NattafAL17 [468], Nattaf16 [466], NattafALR16 [469], NattafAL15 [467]
Pascal Van Hentenryck	10	164	FontaineMH16 [217], EvenSH15 [204], EvenSH15a [205], SchausHMCMD11 [541], MonetteDH09 [450], DoomsH08 [187], HentenryckM08 [303], MercierH08 [441], HentenryckM04 [302], DincbasSH90 [185]
Claude Le Pape	9	536	BaptisteLPN06 [47], DannaP04 [162], BaptistePN01 [50], BaptisteP00 [49], PapaB98 [500], NuijtenP98 [484], BaptisteP97 [48], PapeB97 [499], Pape94 [498]
Nysret Musliu	9	14	LacknerMMWW23 [378], WinterMMW22 [645], LacknerMMWW21 [377], GeibingerKKMMW21 [236], GeibingerMM21 [239], GeibingerMM19 [238], abs-1911-04766 [237], MusliuSS18 [460], KletzanderM17 [351]
Claude-Guy Quimper	9	25	BoudreaultSLQ22 [118], OuelletQ22 [493], Mercier-AubinGQ20 [442], FahimiOQ18 [207], KameugneFGOQ18 [339], OuelletQ18 [492], Gin- grasQ16 [246], BessiereHMQW14 [93], OuelletQ13 [491]
Tony T. Tran	9	108	TranPZLDB18 [607], TranVNB17 [609], TranVNB17a [610], TranAB16 [604], TranWDRFOVB16 [611], TranDRFWOVB16 [606], TerekhovTDB14 [591], TranTDB13 [608], TranB12 [605]
Mats Carlsson	8	80	WessenCS20 [643], MossigeGSMC17 [453], LetortCB15 [389], LetortCB13 [388], LetortBC12 [387], BeldiceanuCDP11 [80], BeldiceanuCP08 [81], BeldiceanuC02 [79]
Thibaut Feydy	8	173	YoungFS17 [656], SchuttFSW15 [552], SchuttFS13 [547], SchuttFS13a [546], SchuttFSW13 [551], SchuttFSW11 [550], abs-1009-0347 [549], Schut- tFSW09 [548]
Mark G. Wallace	8	135	SchuttFSW15 [552], GuSSWC14 [269], SchuttFSW13 [551], SchuttCSW12 [545], GuSW12 [270], SchuttFSW11 [550], abs-1009-0347 [549], AjiliW04 [12]
Louis-Martin Rousseau	8	126	CappartTSR18 [131], DoulabiRP16 [191], PesantRR15 [506], DoulabiRP14 [190], MalapertCGJLR13 [426], MalapertCGJLR12 [425], Chapa- dosJR11 [146], HachemiGR11 [276]
Armin Wolf	8	46	GeitzGSSW22 [240], Wolf11 [648], SchuttW10 [554], Wolf09 [650], WolfS05 [649], SchuttWS05 [555], Wolf05 [647], Wolf03 [646]
Diarmuid Grimes	7	52	AntunesABD20 [20], AntunesABD18 [19], GrimesH15 [261], GrimesIOS14 [263], GrimesH11 [260], GrimesH10 [259], GrimesHM09 [262]
Zdenek Hanzálek	7	27	Mehdizadeh-Somarin23 [435], abs-2305-19888 [300], HeinzNVH22 [299], VlkHT21 [633], BenediktMH20 [86], BenediktSMVH18 [87], KelbelH11 [345]
Roger Kameugne	7	14	KameugneFND23 [340], ThomasKS20 [596], KameugneFGOQ18 [339], Kameugne15 [338], KameugneFSN14 [342], Kameugne14 [337], KameugneFSN11 [341]
András Kovács	7	21	KovacsB11 [360], KovacsK11 [362], KovacsB08 [359], KovacsB07 [358], KovacsV06 [364], KovacsEKV05 [361], KovacsV04 [363]
Arnaud Malapert	7	39	BonninMNE24 [114], NattafM20 [472], MalapertN19 [427], MalapertCGJLR13 [426], MalapertCGJLR12 [425], Malapert11 [424], GrimesHM09 [262]
Barry O'Sullivan	7	14	ArmstrongGOS22 [27], ArmstrongGOS21 [26], AntunesABD20 [20], AntunesABD18 [19], HurleyOS16 [323], GrimesIOS14 [263], IfrimOS12 [324]
Cemalettin Ozturk	7	18	GokPTGO23 [275], OrnekOS20 [490], AntunesABD20 [20], GokGSTO20 [251], AntunesABD18 [19], OrnekO16 [489], OzturkTHO14 [495]
Gabriela P. Henning	7	153	NovaraNH16 [478], NovasH14 [482], NovasH12 [481], NovasH10 [480], ZeballosQH10 [666], ZeballosH05 [665], QuirogaZH05 [522]
Yves Deville	6	19	HoundjiSWD14 [321], DejemeppeD14 [175], SchausHMCMD11 [541], MonetteDH09 [450], SchausD08 [540], MonetteDD07 [449]
Stefan Heinz	6	67	HeinzSB13 [298], HeinzKB13 [295], HeinzSSW12 [296], HeinzB12 [294], HeinzS11 [297], BertholdHLMS10 [92]
Wim Nuijten	6	375	BaptisteLPN06 [47], GodardLN05 [247], BaptistePN01 [50], SourdN00 [573], FocacciLN00 [216], NuijtenP98 [484]
Erwin Pesch	6	417	MullerMKP22 [456], BlazewiczEP19 [97], DomdorfPH03 [186], DorndorfPH99 [189], DorndorfHP99 [188], BlazewiczDP96 [126]
Emmanuel Poder	6	27	BeldiceanuCDP11 [80], abs-0907-0939 [507], BeldiceanuCP08 [81], PoderB08 [508], BeldiceanuP07 [82], PoderBS04 [509]
Vahid Roshanaei	6	168	NaderiRR23 [465], NaderiR22 [463], NaderiRBAU21 [464], RoshanaeiBAUB20 [531], RoshanaeiLAU17 [532], RoshanaeiLAU17a [533]
Cyrille Dejemeppe	5	8	CauwelaertDS20 [143], CauwelaertDMS16 [141], Dejemeppe16 [173], DejemeppeCS15 [174], DejemeppeD14 [175]
Sophie Demassey	5	82	HermenierDL11 [304], BeldiceanuCDP11 [80], NeronABCDD06 [486], DemasseyAM05 [177], Demassey03 [176]
Ignacio E. Grossmann	5	844	HarjunkoskiMBC14 [283], CastroGR10 [139], MaraveliasG04 [430], HarjunkoskiG02 [282], JainG01 [327]
Hanyu Gu	5	39	EtminaniesfahaniGNMS22 [203], ThiruvadyWGS14 [595], GuSSWC14 [269], GuSS13 [268], GuSW12 [270]
Brahim Hnich	5	110	GokgurHO18 [252], OzturkTHO15 [681], OzturkTHO13 [496], OzturkTHO10 [495], RossiTHP07 [534]
Narendra Jussien	5	36	MalapertCGJLR13 [426], MalapertCGJLR12 [425], ClercqPBJ11 [152], ElkhyariGJ02 [198], ElkhyariGJ02a [199]
Juan M. Novas	5	148	Novas19 [479], NovaraNH16 [478], NovasH14 [482], NovasH12 [481], NovasH10 [480]
Kenneth N. Brown	5	44	AntunesABD20 [20], AntunesABD18 [19], MurphyMB15 [458], WuBB09 [653], WuBB05 [652]
Bahman Naderi	5	32	NaderiRR23 [465], NaderiBZ22 [462], NaderiBZ22a [461], NaderiR22 [463], NaderiRBAU21 [464]
Joaquin Rodriguez	5	118	MarliereSPR23 [431], RodriguezS09 [530], Rodriguez07 [527], Rodriguez07b [528], RodriguezDG02 [529]
Mohamed Siala	5	9	AntunesABD20 [20], AntunesABD18 [19], Siala15 [561], SialaAH15 [563], Siala15a [562]
Marek Vlk	5	14	abs-2305-19888 [300], HeinzNVH22 [299], VlkHT21 [633], BenediktSMVH18 [87], BartakV15 [59]
Nic Wilson	5	28	AntunesABD20 [20], AntunesABD18 [19], BeckW07 [73], BeckW05 [72], BeckW04 [71]

Table 8: Co-Authors of Articles/Papers

Author	Nr Works	Nr Cites	Entries
André A. Ciré	4	50	CireCH13 [150], LopesCSM10 [413], MouraSCL08 [455], MouraSCL08a [454]
Andrea Bartolini	4	40	BorghesiBLMB18 [116], BridiBLMB16 [121], BridiLBBM16 [122], BartoliniBBLM14 [60]
Geoffrey Chu	4	47	GuSSWC14 [269], ChuGNSW13 [148], SchuttCSW12 [545], BandaSC11 [171]
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 Guéret	4	33	MalapertCGJLR13 [426], MalapertCGJLR12 [425], ElkhyariGJ02 [198], ElkhyariGJ02a [199]
Laurent Houssin	4	0	JuvinHHL23 [332], JuvinHL23a [335], JuvinHL23 [334], JuvinHL22 [333]
Carla Juvin	4	0	JuvinHHL23 [332], JuvinHL23a [335], JuvinHL23 [334], JuvinHL22 [333]
Tamás Kis	4	11	NattafHKAL19 [471], KovacsK11 [362], KeriK07 [346], KovacsEKV05 [361]
Arnaud Letort	4	23	LetortCB15 [389], LetortCB13 [388], Letort13 [386], LetortBC12 [387]
Dionne M. Aleman	4	161	NaderiRBAU21 [464], RoshanaeiBAUB20 [531], RoshanaeiLAU17 [532], RoshanaeiLAU17a [533]
Laurent Michel	4	39	TardivoDFMP23 [585], SchausHMCMD11 [541], HentenryckM08 [303], HentenryckM04 [302]
Florian Mischek	4	6	GeibingerKKMMW21 [236], GeibingerMM21 [239], GeibingerMM19 [238], abs-1911-04766 [237]
Jean-Noël Monette	4	15	CauwelaertDMS16 [141], SchausHMCMD11 [541], MonetteDH09 [450], MonetteDD07 [449]
Goldie Nejat	4	50	TranVNB17 [609], TranVNB17a [610], BoothNB16 [115], LouieVNB14 [416]
Yanick Ouellet	4	10	OuelletQ22 [493], FahimiOQ18 [207], KameugneFGOQ18 [339], OuelletQ18 [492]
Gilles Pesant	4	60	AalianPG23 [1], DoulabiRP16 [191], PesantRR15 [506], DoulabiRP14 [190]
Thierry Petit	4	20	DerrienP14 [180], DerrienPZ14 [181], ClercqPBJ11 [152], abs-0907-0939 [507]
Cédric Pralet	4	10	SquillaciPR23 [574], Pralet17 [515], HebrardHJMPV16 [290], PraletLJ15 [516]
Adrian R. Pearce	4	35	BlomPS16 [100], BurtLPS15 [125], BlomBPS14 [99], LipovetzkyBPS14 [398]
Dhananjay R. Thiruvady	4	32	abs-2402-00459 [474], abs-2211-14492 [576], ThiruvadyWGS14 [595], ThiruvadyBME09 [594]
Martino Ruggiero	4	58	BeniniLMR11 [90], LombardiMRB10 [412], RuggieroBBMA09 [535], BeniniLMR08 [89]
Mark S. Fox	4	27	BeckF00 [68], BeckF98 [67], BeckDF97 [65], FoxAS82 [220]
Christine Solnon	4	20	GroleazNS20 [266], GroleazNS20a [265], SacramentoSP20 [536], MelgarejoLS15 [11]
Daria Terekhov	4	21	TanT18 [582], TerekhovTDB14 [591], TranTDB13 [608], TerekhovDOB12 [590]
József Váncza	4	9	KovacsV06 [364], KovacsEKV05 [361], KovacsV04 [363], VanczaM01 [620]
Toby Walsh	4	2	GelainPRVW17 [241], BessiereHMQW14 [93], ChuGNSW13 [148], HebrardTW05 [291]
Felix Winter	4	0	LacknerMMWW23 [378], WinterMMW22 [645], LacknerMMWW21 [377], GeibingerKKMMW21 [236]
Francisco Yuraszeck	4	31	YuraszeckMCCR23 [661], YuraszeckMC23 [659], YuraszeckMPV22 [660], MejiaY20 [436]
Willem-Jan van Hoeve	4	50	GilesH16 [245], GoelSHFS15 [250], HoeveGSL07 [619], GomesHS06 [257]
Max Åstrand	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 [320], HoundjiSWD14 [321], SadykovW06 [538]
Bruno A. Prata	3	1	PrataAN23 [517], AbreuNP23 [169], AbreuPNF23 [3]
Mehmet A. Begen	3	25	NaderiBZ22 [462], NaderiBZ22a [461], NaderiRBAU21 [464]
Maliheh Aramon Bajestani	3	31	BajestaniB15 [43], BajestaniB13 [42], BajestaniB11 [41]
Séverine Betmbe Fetgo	3	1	KameugneFND23 [340], FetgoD22 [215], KameugneFGOQ18 [339]
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 [455], MouraSCL08a [454], HeipckeCCS00 [301]
Hadrien Cambazard	3	23	CatusseCBL16 [140], MalapertCGJLR13 [426], MalapertCGJLR12 [425]
Quentin Cappart	3	8	PopovicCGNC22 [512], CappartTSR18 [131], CappartS17 [130]
Ondrej Cepek	3	36	BartakCS10 [56], VilimBC05 [630], VilimBC04 [629]
Amedeo Cesta	3	15	CestaOPS14 [144], OddiPCC03 [487], 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 [611], TranDRFWOVB16 [606], FrankK05 [221]
Douglas G. Down	3	20	TranPZLDB18 [607], TerekhovTDB14 [591], TranTDB13 [608]
Maurizio Gabbrielli	3	12	LiuCGM17 [400], AmadiniGM16 [17], FalaschiGMP97 [209]
Michele Garraffa	3	1	AlfieriGPS23 [15], ArmstrongGOS22 [27], ArmstrongGOS21 [26]
Martin Gebser	3	0	TasselGS23 [586], abs-2306-05747 [587], KovacsTKSG21 [365]
Jean-Claude Gentina	3	8	KorbaaYG00 [356], LopezAKYG00 [414], KorbaaYG99 [355]

Author	Nr Works	Nr Cites	Entries
Lucas Groleaz	3	4	Groleaz21 [264], GroleazNS20 [266], GroleazNS20a [265]
Andy Ham	3	20	HamPK21 [279], Ham18 [277], Ham18a [278]
Renaud Hartert	3	35	GayHLS15 [231], GayHS15 [232], GayHS15a [233]
Marie-José Huguet	3	12	AntuoriHHEN21 [22], AntuoriHHEN20 [21], HebrardHJMPV16 [290]
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 [356], LopezAKYG00 [414], KorbaaYG99 [355]
Stefan Kreter	3	47	KreterSSZ18 [368], KreterSS17 [367], KreterSS15 [366]
Krzysztof Kuchcinski	3	24	WolinskiKG04 [651], KuchcinskiW03 [370], GruianK98 [267]
André Langevin	3	107	MalapertCGJLR13 [426], MalapertCGJLR12 [425], KhayatLR06 [347]
Philippe Michelon	3	68	Acuna-AgostMFG09 [5], LiessM08 [392], DemasseyAM05 [177]
Tony Minoru Tamura Lopes	3	47	LopesCSM10 [413], MouraSCL08 [455], MouraSCL08a [454]
Christina N. Burt	3	15	BurtLPS15 [125], BlomBPS14 [99], LipovetzkyBPS14 [398]
Hiroki Nishikawa	3	3	NishikawaSTT19 [477], NishikawaSTT18 [475], NishikawaSTT18a [476]
Angelo Oddi	3	15	CestaOPS14 [144], OddiPCC03 [487], CestaOS98 [145]
David R. Urbach	3	100	NaderiRBAU21 [464], RoshanaeiBAUB20 [531], RoshanaeiLAU17a [533]
Philippe Refalo	3	60	GarganiR07 [228], BeckR03 [70], MilanoORT02 [444]
Levi Ribeiro de Abreu	3	11	AbreuNP23 [169], AbreuN22 [168], AbreuAPNM21 [167]
Gunnar Schrader	3	13	Wolf09 [650], WolfS05 [649], SchuttWS05 [555]
Jens Schulz	3	40	HeinzSB13 [298], HeinzS11 [297], BertholdHLMS10 [92]
Marcelo Seido Nagano	3	11	AbreuNP23 [169], AbreuN22 [168], AbreuAPNM21 [167]
Kana Shimada	3	3	NishikawaSTT19 [477], NishikawaSTT18 [475], NishikawaSTT18a [476]
Gilles Simonin	3	8	GodetLHS20 [249], SimoninAHL15 [565], SimoninAHL12 [564]
Tiago Stegun Vaquero	3	29	TranVNB17 [609], TranVNB17a [610], LouieVNB14 [416]
Josep Suy	3	11	BofillCSV17 [103], BofillGSV15 [105], BofillEGPSV14 [104]
Christos T. Maravelias	3	396	Adelgren2023 [7], HarjunkoskiMBC14 [283], MaraveliasG04 [430]
Andreas T. Ernst	3	16	abs-2211-14492 [576], EdwardsBSE19 [194], ThiruvadyBME09 [594]
Ittetsu Taniguchi	3	3	NishikawaSTT19 [477], NishikawaSTT18 [475], NishikawaSTT18a [476]
Pierre Tassel	3	0	TasselGS23 [586], abs-2306-05747 [587], KovacsTKSG21 [365]
Reza Tavakkoli-Moghaddam	3	9	Fatemi-AnarakiTFV23 [213], NouriMHD23 [614], GhasemiMH23 [244]
Hiroyuki Tomiyama	3	3	NishikawaSTT19 [477], NishikawaSTT18 [475], NishikawaSTT18a [476]
Seyda Topaloglu Yildiz	3	20	IsikYA23 [325], YunusogluY22 [658], KucukY19 [372]
Sascha Van Cauwelaert	3	8	CauwelaertLS18 [142], CauwelaertDMS16 [141], DejemeppeCS15 [174]
Gérard Verfaillie	3	119	HebrardHJMPV16 [290], VerfaillieL01 [621], BensanaLV99 [91]
Arnaldo Vieira Moura	3	47	LopesCSM10 [413], MouraSCL08 [455], MouraSCL08a [454]
Mateu Villaret	3	11	BofillCSV17 [103], BofillGSV15 [105], BofillEGPSV14 [104]
Daniel Walkiewicz	3	0	LacknerMMWW23 [378], WinterMMW22 [645], LacknerMMWW21 [377]
Pascal Yim	3	8	KorbaaYG00 [356], LopezAKYG00 [414], KorbaaYG99 [355]
Alessandro Zanarini	3	25	AstrandJZ20 [38], AstrandJZ18 [37], BonfiettiZLM16 [113]
Luis Zeballos	3	35	ZeballosQH10 [666], ZeballosH05 [665], QuirogaZH05 [522]
Viktoria A. Hauder	2	14	HauderBRPA20 [287], abs-1902-09244 [286]
Daniel A. Desmond	2	1	AntunesABD20 [20], AntunesABD18 [19]
Michael Affenzeller	2	14	HauderBRPA20 [287], abs-1902-09244 [286]
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]
M. Arslan Ornek	2	31	OrnekOS20 [490], OzturkTHO13 [496]
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 [639], WangB20 [638]
Andreas Beham	2	14	HauderBRPA20 [287], abs-1902-09244 [286]

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Ondrej Benedikt	2	3	BenediktMH20 [86], BenediktSMVH18 [87]
Davide Bertozzi	2	27	RuggieroBBMA09 [535], BeniniBGM06 [88]
Jean-Charles Billaut	2	23	BillautHL12 [95], LorigeonBB02 [415]
Andrea Borghesi	2	23	BorghesiBLMB18 [116], BartoliniBBLM14 [60]
Dario Canut-de-Bon	2	1	YuraszeckMCCR23 [661], YuraszeckMC23 [659]
Tom Carchrae	2	16	CarchraeB09 [132], CarchraeBF05 [133]
Jacques Carlier	2	6	CarlierSJP21 [137], NeronABCDD06 [486]
Erich Christian Teppan	2	11	Teppan22 [589], ColT19 [157]
Jordi Coll Caballero	2	0	Caballero23 [128], Caballero19 [127]
Yves Colombani	2	9	HeipckeCCS00 [301], Colombani96 [158]
Joseph D. Scott	2	13	KameugneFSN14 [342], KameugneFSN11 [341]
Emilie Danna	2	23	DannaP04 [162], DannaP03 [163]
Stéphane Dauzère-Pérès	2	14	PenzDN23 [503], NattafDYW19 [470]
Mauro Dell'Amico	2	2	MontemanniD23 [452], MontemanniD23a [451]
Minh Do	2	3	TranWDRFOVB16 [611], TranDRFWOVB16 [606]
Ulrich Dorndorf	2	18	DorndorfPH99 [189], DorndorfHP99 [188]
Hani El Sakkout	2	82	KamarainenS02 [336], SakkoutW00 [539]
Sebastian Engell	2	384	KlankeBYE21 [350], HarjunkoskiMBC14 [283]
Tamer Eren	2	1	GurPAE23 [273], GurEA19 [682]
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 [677], ZibranR11a [678]
Azadeh Farsi	2	25	FarsiTM22 [212], MokhtarzadehTNF20 [448]
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 [611], TranDRFWOVB16 [606]
Vincent Gingras	2	1	KameugneFGOQ18 [339], GingrasQ16 [246]
Arthur Godet	2	1	Godet21a [248], GodetLHS20 [249]
Adrian Goldwaser	2	8	GoldwaserS18 [254], GoldwaserS17 [253]
Arnaud Gotlieb	2	9	MossigeGSMC17 [453], AlesioNBG14 [182]
Daniel Guimarans	2	2	GokPTGO23 [275], GokGSTO20 [251]
Iiro Harjunkoski	2	550	HarjunkoskiMBC14 [283], HarjunkoskiG02 [282]
Vilém Heinz	2	5	abs-2305-19888 [300], HeinzNVH22 [299]
Alessandro Hill	2	0	HillBCGN22 [305], HillTV21 [306]
Seyed Hossein Hashemi Doulabi	2	59	DoulabiRP16 [191], DoulabiRP14 [190]
Georgiana Ifrim	2	12	GrimesIOS14 [263], IfrimOS12 [324]
Mirjana Ivanovic	2	4	BadicaBI20 [39], BadicaBIL19 [40]
Raf Jans	2	60	MartnezAJ22 [433], Jans09 [328]
Chanchal K. Roy	2	43	ZibranR11 [677], ZibranR11a [678]
Lucas Kletzander	2	1	GeibingerKKMMW21 [236], KletzanderM17 [351]
Jan Kristof Behrens	2	12	BehrensLM19 [76], abs-1901-07914 [77]
Wen-Yang Ku	2	128	KuB16 [369], HeinzKB13 [295]
Michelle L. Blom	2	35	BlomPS16 [100], BlomBPS14 [99]
Marie-Louise Lackner	2	0	LacknerMMWW23 [378], LacknerMMWW21 [377]
Arnaud Lallouet	2	0	PerezGSL23 [504], abs-2312-13682 [505]
Evelina Lamma	2	12	LammaMM97 [381], 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 [274]
Michel Lemaître	2	110	VerfaillieL01 [621], BensanaLV99 [91]

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Author	Nr Works	Nr Cites	Entries
BoonPing Lim	2	6	LimHTB16 [394], LimBTBB15 [395]
Kamol Limtanyakul	2	6	LimtanyakulS12 [397], Limtanyakul07 [396]
Yiqing Lin	2	1	AntunesABD20 [20], AntunesABD18 [19]
Nir Lipovetzky	2	0	BurtLPS15 [125], LipovetzkyBPS14 [398]
James Little	2	30	KrogtLPHJ07 [618], Darby-DowmanLMZ97 [164]
Shixin Liu	2	0	LiFJZLL22 [391], ZhangJZL22 [667]
Xavier Lorca	2	29	GodetLHS20 [249], HermenierDL11 [304]
Curtiss Luong	2	115	RoshanaeiLAU17 [532], RoshanaeiLAU17a [533]
Abid M. Malik	2	15	Malik08 [428], MalikMB08 [429]
Pedro M. Castro	2	381	HarjunkoskiMBC14 [283], CastroGR10 [139]
Gilles Madi-Wamba	2	1	Madi-WambaLOBM17 [422], Madi-WambaB16 [421]
Adrien Maillard	2	9	HebrardALLCMR22 [289], HebrardHJMPV16 [290]
Masoumeh Mansouri	2	12	BehrensLM19 [76], abs-1901-07914 [77]
Jacopo Mauro	2	2	LiuCGM17 [400], AmadiniGM16 [17]
Gonzalo Mejía	2	25	YuraszeckMC23 [659], MejiaY20 [436]
Paola Mello	2	12	LammaMM97 [381], BrusoniCLMMT96 [124]
Carlos Mencía	2	25	MenciaSV13 [439], MenciaSV12 [438]
Mahdi Mokhtarzadeh	2	25	FarsiTM22 [212], MokhtarzadehTNF20 [448]
Roberto Montemanni	2	2	MontemanniD23 [452], MontemanniD23a [451]
Christoph Mrkvicka	2	0	LacknerMMWW23 [378], LacknerMMWW21 [377]
István Módos	2	3	BenediktMH20 [86], BenediktSMVH18 [87]
Sophie N. Parragh	2	14	HauderBRPA20 [287], abs-1902-09244 [286]
Samba Ndojh Ndiaye	2	4	GroleazNS20 [266], GroleazNS20a [265]
Youcheu Ngo-Kateu	2	13	KameugneFSN14 [342], KameugneFSN11 [341]
Alain Nguyen	2	3	AntuoriHHEN21 [22], AntuoriHHEN20 [21]
Su Nguyen	2	0	abs-2402-00459 [474], abs-2211-14492 [576]
Antonín Novák	2	5	abs-2305-19888 [300], HeinzNVH22 [299]
Bryan O'Gorman	2	3	TranWDRFOVB16 [611], TranDRFWOVB16 [606]
Mike O'Keeffe	2	1	AntunesABD20 [20], AntunesABD18 [19]
Eva Onaindia	2	27	GarridoAO09 [229], GarridoOS08 [230]
Irem Ozkarahan	2	89	EdisO11a [193], TopalogluO11 [600]
Carla P. Gomes	2	0	HoeveGSL07 [619], GomesHS06 [257]
Laure Pauline Fotso	2	13	KameugneFSN14 [342], KameugneFSN11 [341]
Guillaume Perez	2	0	PerezGSL23 [504], abs-2312-13682 [505]
Toàn Phan Huy	2	18	DorndorfPH99 [189], DorndorfHP99 [188]
Nicola Policella	2	10	CestaOPS14 [144], OddiPCC03 [487]
Enrico Pontelli	2	0	TardivoDFMP23 [585], VillaverdeP04 [632]
Luis Quesada	2	1	AntunesABD20 [20], AntunesABD18 [19]
Oscar Quiroga	2	35	ZeballosQH10 [666], QuirogaZH05 [522]
Günther R. Raidl	2	14	FrohnerTR19 [225], RendlPHPR12 [524]
Levi R. Abreu	2	0	PrataAN23 [517], AbreuPNF23 [3]
María R. Sierra	2	25	MenciaSV13 [439], MenciaSV12 [438]
Sebastian Raggl	2	14	HauderBRPA20 [287], abs-1902-09244 [286]
Vinasétan Ratheil Houndji	2	5	HoundjiSW19 [320], HoundjiSWD14 [321]
David Rivreau	2	42	NattafALR16 [469], GuyonLPR12 [274]
Francesca Rossi	2	29	GelainPRVW17 [241], BartakSR10 [58]
Louis-Martin Rousseau	2	106	CastroGR10 [139], CorreaLR07 [159]
Marcelo S. Nagano	2	0	PrataAN23 [517], AbreuPNF23 [3]
Erlendur S. Thorsteinsson	2	81	MilanoORT02 [444], Thorsteinsson01 [597]
Ruslan Sadykov	2	56	SadykovW06 [538], Sadykov04 [537]
Konstantin Schekotihin	2	0	TasselGS23 [586], abs-2306-05747 [587]
Christian Schulte	2	5	WessenCS20 [643], FrimodigS19 [223]
Bart Selman	2	0	HoeveGSL07 [619], GomesHS06 [257]
Paul Shaw	2	179	LaborieRSV18 [376], VilimLS15 [631]
Wijnand Suijlen	2	0	PerezGSL23 [504], abs-2312-13682 [505]

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Yuan Sun	2	0	abs-2402-00459 [474], abs-2211-14492 [576]
Reza Tavakkoli-Moghaddam	2	25	Mehdizadeh-Somarin23 [435], MokhtarzadehTNF20 [448]
Clémentin Tayou Djamégni	2	0	KameugneFND23 [340], FetgoD22 [215]
Erich Teppan	2	3	abs-2102-08778 [156], FriedrichFMRSST14 [222]
Alexander Tesch	2	9	Tesch18 [593], Tesch16 [592]
Sylvie Thiébaux	2	6	LimHTB16 [394], LimBTBB15 [395]
Charles Thomas	2	6	ThomasKS20 [596], CappartTSR18 [131]
Maurizio Tomasella	2	2	GokPTGO23 [275], GokGSTO20 [251]
Semra Tunali	2	46	OzturkTHO13 [496], OzturkTHO10 [495]
Behdin Vahedi Nouri	2	25	Mehdizadeh-Somarin23 [435], MokhtarzadehTNF20 [448]
Behdin Vahedi-Nouri	2	9	Fatemi-AnarakiTFV23 [213], NouriMHD23 [614]
Ramiro Varela	2	25	MenciaSV13 [439], MenciaSV12 [438]
Christophe Varnier	2	13	BoucherBVBL97 [117], BaptisteLV92 [51]
Davide Venturelli	2	3	TranWDRFOVB16 [611], TranDRFWOVB16 [606]
Ruixin Wang	2	0	WangB23 [639], WangB20 [638]
Zhihui Wang	2	3	TranWDRFOVB16 [611], TranDRFWOVB16 [606]
Jean-Paul Watson	2	57	BeckFW11 [66], WatsonB08 [642]
Christine Wei Wu	2	42	WuBB09 [653], WuBB05 [652]
Christophe Wolinski	2	19	WolinskiKG04 [651], KuchcinskiW03 [370]
Farouk Yalaoui	2	3	OujanaAYB22 [494], ArbaouiY18 [24]
Neil Yorke-Smith	2	5	EfthymiouY23 [195], WallaceY20 [637]
Ziyan Zhao	2	0	LiFJZLL22 [391], ZhangJZL22 [667]
Jianyang Zhou	2	24	Zhou97 [673], Zhou96 [672]
Menkes van den Briel	2	6	LimHTB16 [394], LimBTBB15 [395]
Peter van Beek	2	16	BegB13 [75], MalikMB08 [429]
	1	63	ArtiguesDN08 [31]
Florian A. Herzog	1	2	KoehlerBFFHPSSS21 [352]
J. A. Hoogeveen	1	2	AkkerDH07 [616]
M. A. Hakim Newton	1	0	RiahiNS018 [525]
Amr A. Kandil	1	24	TangLWSK18 [584]
Antonio A. Márquez	1	7	ValleMGT03 [615]
Kennedy A. G. Araújo	1	0	AbreuAPNM21 [167]
Steve A. Chien	1	0	HebrardALLCMR22 [289]
Sheila A. McIlraith	1	0	LuoVLBM16 [419]
Andre A. Ciré	1	15	CireCH16 [151]
Julie A. Shah	1	71	GombolayWS18 [256]
Younes Aalian	1	0	AalianPG23 [1]
E.H.L. Aarts	1	65	NuijtenA96 [485]
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 [433]
Sezin Afsar	1	0	AfsarVPG23 [8]
Penélope Aguiar-Melgarejo	1	14	MelgarejoLS15 [11]
Sanjay Ahire	1	0	KanetAG04 [343]
Aftab Ahmed Shaikh	1	0	ShaikhK23 [557]
Uwe Aickelin	1	0	abs-2211-14492 [576]
Farid Ajili	1	4	AjiliW04 [12]
Ali Akbar Sadat Asl	1	55	ZarandiASC20 [664]
Mohsen Akbarpour Shirazi	1	28	ZarandiKS16 [663]
Arianna Alfieri	1	0	AlfieriGPS23 [15]
S. Ali Torabi	1	0	FarsiTM22 [212]
Samira Alizdeh	1	1	AlizdehS20 [16]

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Author	Nr Works	Nr Cites	Entries
Hassane Alla	1	0	LopezAKYG00 [414]
Roberto Amadini	1	2	AmadiniGM16 [17]
Lionel Amodeo	1	1	OujanaAYB22 [494]
Alexandru Andrei	1	9	RuggieroBBMA09 [535]
Ola Angelsmark	1	1	AngelsmarkJ00 [18]
Richard Anthony Valenzano	1	0	LuoVLBM16 [419]
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 [604]
Taha Arbaoui	1	2	ArbaouiY18 [24]
Dmitry Arkhipov	1	12	ArkhipovBL19 [25]
Martin Aronsson	1	0	AronssonBK09 [29]
Konstantin Artiouchine	1	3	ArtiouchineB05 [34]
Arezoo Atighehchian	1	0	YounespourAKE19 [655]
Abdullah Ayub Khan	1	0	ShaikhK23 [557]
Amr B. Eltawil	1	1	AbohashimaEG21 [2]
Maya B. Gokhale	1	0	WolinskiKG04 [651]
David B. H. Tay	1	0	Tay92 [588]
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 [395]
Hari Balasubramanian	1	9	ShinBBHO18 [560]
Viet Bang Nguyen	1	0	LauLN08 [382]
Federico Barber	1	0	AbrilSB05 [4]
Ada Barlatt	1	1	BarlattCG08 [52]
Mohammadreza Barzegaran	1	0	BarzegaranZP20 [61]
Virginie Basini	1	8	Polo-MejiaALB20 [511]
Olga Battaïa	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 [602]
Till Bender	1	1	BenderWS21 [84]
Belaid Benhamou	1	0	TouatBT22 [602]
Hachemi Bennaceur	1	8	KhemmoudjPB06 [348]
E. Bensana	1	99	BensanaLV99 [91]
Russell Bent	1	4	LimBTBB15 [395]
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 [594]
Grzegorz Bocewicz	1	0	BocewiczBB09 [101]
Markus Bohlin	1	0	AronssonBK09 [29]
Peter Bongers	1	381	HarjunkoskiMBC14 [283]
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 [415]
Eric Bourreau	1	4	BourreauGGLT22 [119]

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Author	Nr Works	Nr Cites	Entries
Nadia Brauner	1	0	CatusseCBL16 [140]
Silvia Breitinger	1	0	BreitingerL95 [120]
Kristen Brent Venable	1	1	GelainPRVW17 [241]
D. Brodart	1	1	OujanaAYB22 [494]
Yuriy Brun	1	9	ShinBBHO18 [560]
Vittorio Brusoni	1	1	BrusoniCLMMT96 [124]
Josef Bürgler	1	2	KoehlerBFFHPSSS21 [352]
Jacek Błażewicz	1	344	BlazewiczDP96 [126]
Cristina C. B. Cavalcante	1	5	HeipckeCCS00 [301]
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 [502]
Hendrik C. R. Lock	1	0	BreitingerL95 [120]
Erich C. Teppan	1	3	ColT22 [161]
Matthew C. Gombolay	1	71	GombolayWS18 [256]
Eray Cakici	1	50	HamC16 [280]
Louis-Pierre Campeau	1	0	CampeauG22 [129]
Cid Carvalho de Souza	1	31	LopesCSM10 [413]
Yves Caseau	1	0	Caseau97 [138]
Oscar Castillo	1	55	ZarandiASC20 [664]
Nicolas Catusse	1	0	CatusseCBL16 [140]
Yao-Ting Chang	1	2	HoYCLLCLC18 [307]
Nicolas Chapados	1	5	ChapadosJR11 [146]
Philippe Charlier	1	11	SimonisCK00 [570]
Yarong Chen	1	2	ChenGPSH10 [147]
Mohammad Cherkaoui	1	0	FallahiAC20 [210]
Han-Mo Chiu	1	2	HoYCLLCLC18 [307]
Yeonjun Choi	1	0	KimCMLLP23 [349]
Yingyi Chu	1	13	ChuX05 [149]
Sue-Min Chu	1	2	HoYCLLCLC18 [307]
Hoong Chuin Lau	1	0	LauLN08 [382]
Italo Cipriano	1	0	HillBCGN22 [305]
Michael Codish	1	127	OhrimenkoSC09 [488]
Carleton Coffrin	1	14	SchausHMCMD11 [541]
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 [571]
Gabriella Cortellessa	1	8	OddiPCC03 [487]
Nicolás Cuneo	1	0	YuraszeckMCCR23 [661]
Kateryna Czerniachowska	1	0	CzerniachowskaWZ23 [160]
Alain Côté	1	0	PopovicCGNC22 [512]
Kenneth D. Young	1	6	YoungFS17 [656]
Laurent D. Michel	1	3	FontaineMH16 [217]
Steven D. Prestwich	1	6	RossiTHP07 [534]
Michael D. Moffitt	1	0	MoffittPP05 [447]
Jean Damay	1	3	NeronABCDD06 [486]
Ken Darby-Dowman	1	28	Darby-DowmanLMZ97 [164]
Vivian De Smedt	1	7	GaySS14 [234]
Alexis De Clercq	1	3	ClercqPBJ11 [152]
Rina Dechter	1	10	FrostD98 [226]
Carmelo Del Valle	1	7	ValleMGT03 [615]
Xavier Delorme	1	0	RodriguezDG02 [529]

Table 8: Co-Authors of Articles/Papers

Author	Nr Works	Nr Cites	Entries
Alain Demeure	1	0	JourdanFRD94 [330]
Emir Demirovic	1	4	DemirovicS18 [178]
Roberto Di Cosmo	1	0	LiuCGM17 [400]
Guido Diepen	1	2	AkkerDH07 [616]
Bistra Dilkina	1	2	DilkinaDH05 [183]
Mehmet Dincbas	1	86	DincbasSH90 [185]
Yann Disser	1	0	EmdeZD22 [200]
Alexandre Dolgui	1	2	NouriMHD23 [614]
Ulrich Domdorf	1	0	DomdorfPH03 [186]
Wolfgang Domschke	1	344	BlazewiczDP96 [126]
Grégoire Dooms	1	1	DoomsH08 [187]
Agostino Dovier	1	0	TardivoDFMP23 [585]
Yuquan Du	1	27	QinDCS20 [520]
Lei Duan	1	2	DilkinaDH05 [183]
Alexandre Duarte de Almeida Lemos	1	0	Lemos21 [385]
Didier Dubois	1	13	FortinZDF05 [219]
Pierre Dupont	1	0	MonetteDD07 [449]
David Duvivier	1	36	WangMD15 [640]
Kyle E. C. Booth	1	21	BoothNB16 [115]
Marco E. Lübbecke	1	28	BertholdHLMS10 [92]
Andrew E. Santosa	1	0	ZhuS02 [675]
Martha E. Pollack	1	0	MoffittPP05 [447]
Kyle E.C. Booth	1	24	RoshanaeiBAUB20 [531]
Nikolaos Efthymiou	1	0	EfthymiouY23 [195]
Gokhan Egilmez	1	43	GedikKEK18 [235]
Péter Egri	1	2	KovacsEKV05 [361]
Nizar El Hachemi	1	32	HachemiGR11 [276]
Ghada El Khayat	1	84	KhayatLR06 [347]
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 [325]
Teresa Escobet	1	17	EscobetPQPRA19 [202]
Joan Espasa	1	3	BofillEGPSV14 [104]
Marie-Laure Espinouse	1	0	BonninMNE24 [114]
Alireza Etminaniesfahani	1	0	EtminaniesfahaniGNMS22 [203]
Michael F. Gorman	1	0	KanetAG04 [343]
Richard F. Hartl	1	24	SchnellH15 [543]
Mohd Fadlee A. Rasid	1	0	AkramNHRSA23 [13]
François Fages	1	0	JourdanFRD94 [330]
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 [352]
M.A. Forbes	1	0	ForbesHJST24 [218]
Andrea Formisano	1	0	TardivoDFMP23 [585]
Jérôme Fortin	1	13	FortinZDF05 [219]
Mehdi Foumani	1	7	Fatemi-AnarakiTFV23 [213]
Gerhard Friedrich	1	3	FriedrichFMRSST14 [222]
Sara Frimodig	1	3	FrimodigS19 [223]
Aurélien Froger	1	0	Froger16 [224]

Table 8: Co-Authors of Articles/Papers

Author	Nr Works	Nr Cites	Entries
Nikolaus Frohner	1	0	FrohnerTR19 [225]
Daniel Frost	1	10	FrostD98 [226]
Melanie Frühstück	1	3	FriedrichFMRSST14 [222]
Jun Fu	1	0	LiFJZLL22 [391]
Etienne Fux	1	2	KoehlerBFFHPSSS21 [352]
Ernesto G. Birgin	1	30	LunardiBLRV20 [417]
Mohamed Gaha	1	0	PopovicCGNC22 [512]
Flavius Galiber III	1	26	PembertonG98 [502]
Cristian Galleguillos	1	1	GalleguillosKSB19 [227]
Xavier Gandibleux	1	0	RodriguezDG02 [529]
Graeme Gange	1	6	He0GLW18 [288]
Thierry Garaix	1	4	BourreauGGLT22 [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 [442]
Ridvan Gedik	1	43	GedikKEK18 [235]
Marc Geitz	1	0	GeitzGSSW22 [240]
Mirco Gelain	1	1	GelainPRVW17 [241]
Michel Gendreau	1	32	HachemiGR11 [276]
Wing-Yue Geoffrey Louie	1	16	LouieVNB14 [416]
Marcus Gerhard Müller	1	17	MullerMKP22 [456]
Patrick Gerhards	1	0	HubnerGSV21 [322]
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 [504]
Gael Glorian	1	0	abs-2312-13682 [505]
Daniel Godard	1	0	GodardLN05 [247]
Vikas Goel	1	48	GoelSHFS15 [250]
Mark Goh	1	18	FanXG21 [211]
Hans-Joachim Goltz	1	7	Goltz95 [255]
Matthieu Gondran	1	4	BourreauGGLT22 [119]
Inés González-Rodríguez	1	0	AfsarVPG23 [8]
Marcos Goycoolea	1	0	HillBCGN22 [305]
Cristian Grozea	1	0	GeitzGSSW22 [240]
Flavius Gruian	1	5	GruianK98 [267]
Zailin Guan	1	2	ChenGPSH10 [147]
Alessio Guerri	1	18	BeniniBGM06 [88]
Serigne Gueye	1	3	Acuna-AgostMFG09 [5]
Ying Guo	1	0	ZhouGL15 [674]
Peng Guo	1	8	GuoHLW20 [271]
Penghui Guo	1	0	GuoZ23 [272]
Olivier Guyon	1	32	GuyonLPR12 [274]
Şeyda Gür	1	0	GurEA19 [682]
Burak Gökgür	1	31	GokgurHO18 [252]
Seyda Gür	1	1	GurPAE23 [273]
Fehmi H'Mida	1	11	TrojetHL11 [612]
Rolf H. Möhring	1	28	BertholdHLMS10 [92]
John H. Drake	1	41	PourDERB18 [513]
M. H. Fazel Zarandi	1	28	ZarandiKS16 [663]
Klaus H. Ecker	1	38	BlazewiczEP19 [97]
Emile H. L. Aarts	1	0	NuijtenA94 [483]
Tarik Hadzic	1	3	SimonisH11 [572]

Table 8: Co-Authors of Articles/Papers

Author	Nr Works	Nr Cites	Entries
Mahdi Hamid	1	0	GhasemiMH23 [244]
Claire Hanen	1	1	HanenKP21 [281]
Jiang Hang Chen	1	27	QinDCS20 [520]
Sue Hanhilammi	1	2	KrogtLPHJ07 [618]
Zdeněk Hanzálek	1	2	NouriMHD23 [614]
Mohamed Haouari	1	3	LahimerLH11 [379]
M.G. Harris	1	0	ForbesHJST24 [218]
Fazirulhisyam Hashim	1	0	AkramNHRSA23 [13]
Muhammad Hasseb	1	2	ChenGPSH10 [147]
Shan He	1	6	He0GLW18 [288]
Xun He	1	8	GuoHLW20 [271]
Ivan Heckman	1	0	HeckmanB11 [293]
Susanne Heipcke	1	5	HeipckeCCS00 [301]
Fabien Hermenier	1	28	HermenierDL11 [304]
Gerhard Hiermann	1	14	RendlPHPR12 [524]
B. Hnich	1	5	OzturkTHO12 [680]
Te-Wei Ho	1	2	HoYCLLCLC18 [307]
Petra Hofstedt	1	1	LiuLH19 [399]
Markó Horváth	1	5	NattafHKAL19 [471]
Mohammad Hossein Fazel Zarandi	1	55	ZarandiASC20 [664]
John Hou	1	1	DavenportKRSH07 [166]
Guoyu Huang	1	1	CohenHB17 [155]
Barry Hurley	1	0	HurleyOS16 [323]
Felix Hübner	1	0	HubnerGSV21 [322]
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 [556]
Leon J. Osterweil	1	9	ShinBBHO18 [560]
H. J. Kim	1	12	SureshMOK06 [578]
John J. Kanet	1	0	KanetAG04 [343]
Colin J. Layfield	1	0	Layfield02 [384]
Andrew J. Mason	1	5	Mason01 [434]
Steven J. Edwards	1	3	EdwardsBSE19 [194]
Ronald J. Wilcox	1	71	GombolayWS18 [256]
Andrea J. Brickey	1	0	HillBCGN22 [305]
Vipul Jain	1	279	JainG01 [327]
A.S. Jain	1	490	JainM99 [326]
H.M. Jansen	1	0	ForbesHJST24 [218]
Jean Jaubert	1	0	PraletLJ15 [516]
Jan Jelínek	1	0	JelinekB16 [329]
Yingjun Ji	1	0	ZhangJZL22 [667]
Zixi Jia	1	0	LiFJZLL22 [391]
Yunfei Jiang	1	0	LiuJ06 [401]
Yue Jin	1	2	KrogtLPHJ07 [618]
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 [330]
Nicolas Jozefowiez	1	9	HebrardHJMPV16 [290]
Jae-Yoon Jung	1	1	ParkUJR19 [501]
Pascal Jungblut	1	0	JungblutK22 [331]
T. K. Satish Kumar	1	4	Kumar03 [371]

Table 8: Co-Authors of Articles/Papers

Author	Nr Works	Nr Cites	Entries
Edmund K. Burke	1	41	PourDERB18 [513]
Mustafa K. Dogru	1	8	TerekhovDOB12 [590]
T. K. Feng	1	43	BeckFW11 [66]
Jayant Kalagnanam	1	1	DavenportKRSH07 [166]
Darshan Kalathia	1	43	GedikKEK18 [235]
Olli Kamarainen	1	9	KamarainenS02 [336]
Nor Kamariah Noordin	1	0	AkramNHRSA23 [13]
Philip Kay	1	11	SimonisCK00 [570]
Elena Kelareva	1	16	KelarevaTK13 [344]
Jan Kelbel	1	12	KelbelH11 [345]
H. Khorshidian	1	28	ZarandiKS16 [663]
Kamran Kianfar	1	0	YounespourAKE19 [655]
Philip Kilby	1	16	KelarevaTK13 [344]
Dongyun Kim	1	0	KimCMLLP23 [349]
Emre Kirac	1	43	GedikKEK18 [235]
Zeynep Kiziltan	1	1	GalleguillosKSB19 [227]
Christian Klanke	1	3	KlankeBYE21 [350]
Jana Koehler	1	2	KoehlerBFFHPSSS21 [352]
Wolfgang Kohlenbrein	1	0	KovacsTKSG21 [365]
Rainer Kolisch	1	4	PohlAK22 [510]
Sebastian Kosch	1	4	KoschB14 [357]
Benjamin Kovács	1	0	KovacsTKSG21 [365]
Matthias Krainz	1	0	GeibingerKKMMW21 [236]
Andreas Krall	1	14	ErtlK91 [201]
Dieter Kranzlmüller	1	0	JungblutK22 [331]
Dominik Kress	1	17	MullerMKP22 [456]
Per Kreuger	1	0	AronssonBK09 [29]
Mustafa Küçük	1	0	KucukY19 [372]
Elif Kürklü	1	4	FrankK05 [221]
András Kéri	1	1	KeriK07 [346]
Michael L. Pinedo	1	0	KimCMLLP23 [349]
Hassan L. Hijazi	1	2	LimHTB16 [394]
Philip L. Henneman	1	9	ShinBBHO18 [560]
Yiqing L. Luo	1	0	LuoB22 [420]
Philippe Lacomme	1	4	BourreauGGLT22 [119]
Daniel Lafond	1	0	BoudreaultSLQ22 [118]
Anne-Marie Lagrange	1	0	CatusseCBL16 [140]
Asma Lahimer	1	3	LahimerLH11 [379]
Feipei Lai	1	2	HoYCLLCLC18 [307]
Jui-Fen Lai	1	2	HoYCLLCLC18 [307]
André Langevin	1	106	CorreaLR07 [159]
Alexander Lazarev	1	12	ArkhipovBL19 [25]
Christophe Lecoutre	1	20	GayHLS15 [231]
Myungho Lee	1	0	KimCMLLP23 [349]
Kangbok Lee	1	0	KimCMLLP23 [349]
Solange Lemai-Chenevier	1	0	PraletLJ15 [516]
Xingyang Li	1	0	LiFJZLL22 [391]
Siyi Li	1	0	LiFJZLL22 [391]
Xiaodong Li	1	0	abs-2211-14492 [576]
Guipeng Li	1	0	ZhouGL15 [674]
Hong Li	1	4	SunLYL10 [577]
Nan Li	1	4	SunLYL10 [577]
Yunbo Li	1	1	Madi-WambaLOBM17 [422]
Heyse Li	1	8	TranPZLDB18 [607]
Yi Li	1	0	LuoVLBM16 [419]

Author	Nr Works	Nr Cites	Entries
Haitao Li	1	113	LiW08 [390]
Wan-Chung Liao	1	2	HoYCLLCLC18 [307]
Ariel Liebman	1	6	He0GLW18 [288]
Olivier Liess	1	22	LiessM08 [392]
Andrew Lim	1	5	LimRX04 [393]
Tong Liu	1	0	LiuCGM17 [400]
Lingxuan Liu	1	12	QinWSLS21 [519]
Ke Liu	1	1	LiuLH19 [399]
Rengkui Liu	1	24	TangLWSK18 [584]
Yuechang Liu	1	0	LiuJ06 [401]
Giovanni Lo Bianco	1	0	ZhangBB22 [668]
Doina Logofatu	1	2	BadicaBIL19 [40]
Thomas Lorigeon	1	22	LorigeonBB02 [415]
Yulin Luan	1	8	GuoHLW20 [271]
Roy Luo	1	0	LuoVLBM16 [419]
Arnaud Lusson	1	0	HebrardALLCMR22 [289]
Chang Lv	1	100	MengZRZL20 [440]
Zhimin Lv	1	1	ZhangLS12 [671]
Sven Löffler	1	1	LiuLH19 [399]
J. M. van den Akker	1	2	AkkerDH07 [616]
Abdulrahman M. Abdulghani	1	0	AkramNHRSA23 [13]
O. M. Alade	1	0	abs-1902-01193 [14]
Shahrzad M. Pour	1	41	PourDERB18 [513]
Franco M. Novara	1	18	NovaraNH16 [478]
Rafael M. Gasca	1	7	ValleMGT03 [615]
Jose M. Framinan	1	0	AbreuPNF23 [3]
Andy M. Ham	1	50	HamC16 [280]
Mohammad M. Fazel-Zarandi	1	38	ZarandiB12 [214]
Arslan M. Ornek	1	15	OzturkTHO10 [495]
Jun Ma	1	1	MakMS10 [423]
Amy Mainville Cohn	1	1	BarlattCG08 [52]
Kai-Ling Mak	1	1	MakMS10 [423]
V. Mani	1	12	SureshMOK06 [578]
Oscar Manzano	1	1	MurphyMB15 [458]
Christos Maravelias	1	0	AggounMV08 [10]
Kourosh Marjani Rasmussen	1	41	PourDERB18 [513]
Grégory Marlière	1	1	MarliereSPR23 [431]
Kim Marriott	1	10	FalaschiGMP97 [209]
Fae Martin	1	11	MartinPY01 [432]
Jim McInnes	1	15	MalikMB08 [429]
S. Meeran	1	490	JainM99 [326]
Zahra Mehdizadeh-Somarin	1	0	Mehdizadeh-Somarin23 [435]
Haci Mehmet Alakas	1	1	GurPAE23 [273]
Hacı Mehmet Alakaş	1	0	GurEA19 [682]
Sebastian Meiswinkel	1	0	WinterMMW22 [645]
Gonzalo Mejía	1	6	YuraszeckMPV22 [660]
Hein Meling	1	6	MossigeGSMC17 [453]
Julien Menana	1	0	Menana11 [437]
Jean-Marc Menaud	1	1	Madi-WambaLOBM17 [422]
Leilei Meng	1	100	MengZRZL20 [440]
Luc Mercier	1	32	MercierH08 [441]
Alexandre Mercier-Aubin	1	2	Mercier-AubinGQ20 [442]
Vera Mersheeva	1	3	FriedrichFMRSST14 [222]
Nadine Meskens	1	36	WangMD15 [640]
Bernd Meyer	1	13	ThiruvadyBME09 [594]

Author	Nr Works	Nr Cites	Entries
Kyung Min Kim	1	0	HamPK21 [279]
Gautam Mitra	1	28	Darby-DowmanLMZ97 [164]
Elizabeth Montero	1	0	YuraszeckMCCR23 [661]
Kyungduk Moon	1	0	KimCMLLP23 [349]
Leila Moslemi Naeni	1	0	EtminaniesfahaniGNMS22 [203]
Morten Mossige	1	6	MossigeGSMC17 [453]
Alix Munier Kordon	1	1	HanenKP21 [281]
Stanislav Murín	1	2	MurinR19 [457]
Nicola Muscettola	1	14	Muscettola02 [459]
David Müller	1	17	MüllerMKP22 [456]
András Márkus	1	2	VanczaM01 [620]
Marc-André Ménard	1	1	BessiereHMQW14 [93]
Carlos Méndez	1	381	HarjunkoskiMBC14 [283]
T. N. Wong	1	6	ZhangYW21 [669]
S. N. Omkar	1	12	SureshMOK06 [578]
Nina Narodytska	1	0	ChuGNSW13 [148]
Shiva Nejati	1	3	AlesioNBG14 [182]
Alexandra Newman	1	0	HillBCGN22 [305]
Franklin Nguewouo	1	0	PopovicCGNC22 [512]
Gilberto Nishioka	1	0	SerraNM12 [556]
Thierry Noulamo	1	0	KameugneFND23 [340]
W.P.M. Nuijten	1	65	NuijtenA96 [485]
Jari Nurmi	1	2	QuSN06 [521]
Emmanuel Néron	1	3	NeronABCDD06 [486]
A. O. Amusat	1	0	abs-1902-01193 [14]
Ceyda Oguz	1	5	EdisO11 [192]
Olga Ohrimenko	1	127	OhrimenkoSC09 [488]
Bilal Omar Akram	1	0	AkramNHRSA23 [13]
Mirza Omer Beg	1	1	BegB13 [75]
Anne-Cécile Orgerie	1	1	Madi-WambaLOBM17 [422]
Arslan Ornek	1	0	OrnekO16 [489]
Gregor Ottosson	1	317	HookerO03 [317]
Greger Ottosson	1	14	MilanoORT02 [444]
Mohand Ou Idir Khemmoudj	1	8	KhemmoudjPB06 [348]
Pierre Ouellet	1	12	OuelletQ13 [491]
Soukaina Oujana	1	1	OujanaAYB22 [494]
Asma Ouled Bedhief	1	0	Bedhief21 [74]
Débora P. Ronconi	1	30	LunardiBLRV20 [417]
Edward P. K. Tsang	1	1	Tsang03 [613]
W. P. M. Nuijten	1	0	NuijtenA94 [483]
Bradley P. Allen	1	0	FoxAS82 [220]
Meghana Padmanabhan	1	8	TranPZLDB18 [607]
Silvia Padrón	1	0	GokPTGO23 [275]
Miquel Palahí	1	3	BofillEGPSV14 [104]
Catuscia Palamidessi	1	10	FalaschiGMP97 [209]
Pere Palà-Schönwälder	1	17	EscobetPQPRA19 [202]
Vaibhav Pandey	1	3	PandeyS21a [497]
Hoonseok Park	1	1	ParkUJR19 [501]
Myoung-Ju Park	1	0	HamPK21 [279]
Erica Pastore	1	0	AlfieriGPS23 [15]
Theo Pedersen	1	1	HanenKP21 [281]
Bart Peintner	1	0	MoffittPP05 [447]
Paola Pellegrini	1	1	MarliereSPR23 [431]
Yunfang Peng	1	2	ChenGPSH10 [147]
Louise Penz	1	0	PenzDN23 [503]

Table 8: Co-Authors of Articles/Papers

Author	Nr Works	Nr Cites	Entries
Bernard Penz	1	0	CatusseCBL16 [140]
Jordi Pereira	1	6	YuraszeckMPV22 [660]
Laurent Perron	1	21	DannaP03 [163]
Toän Phan Huy	1	0	DomdorfPH03 [186]
Mehmet Pinarbasi	1	1	GurPAE23 [273]
Arthur Pinkney	1	11	MartinPY01 [432]
Eric Pinson	1	3	CarlierSJP21 [137]
Éric Pinson	1	32	GuyonLPR12 [274]
David Pisinger	1	2	SacramentoSP20 [536]
Maximilian Pohl	1	4	PohlAK22 [510]
Oliver Polo-Mejía	1	8	Polo-MejiaALB20 [511]
Paul Pop	1	0	BarzegaranZP20 [61]
Louis Popovic	1	0	PopovicCGNC22 [512]
Marc Porcheron	1	8	KhemmoudjPB06 [348]
Marc Pouly	1	2	KoehlerBFFHPSSS21 [352]
Guillaume Povéda	1	0	PovedaAA23 [514]
Matthias Prandtstetter	1	14	RendlPHPR12 [524]
Patrick Prosser	1	0	BeckPS03 [69]
Jakob Puchinger	1	14	RendlPHPR12 [524]
Jean-Francois Puget	1	6	Puget95 [518]
Vicenç Puig	1	17	EscobetPQPRA19 [202]
Kenneth Pulliam	1	2	KrogtLPHJ07 [618]
Karim Pérez Martínez	1	1	MartnezAJ22 [433]
Kenny Qili Zhu	1	0	ZhuS02 [675]
Ming Qin	1	12	QinWSLS21 [519]
Tianbao Qin	1	27	QinDCS20 [520]
Yang Qu	1	2	QuSN06 [521]
Yuchen Quan	1	2	ShiYXQ22 [559]
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 [350]
Aliza R. Heching	1	10	HechingH16 [292]
Gregg R. Rabideau	1	0	HebrardALLCMR22 [289]
Camino R. Vela	1	0	AfsarVPG23 [8]
Chandra Reddy	1	1	DavenportKRSH07 [166]
Francisco Regis Abreu Gomes	1	1	GomesM17 [258]
Yaping Ren	1	100	MengZRZL20 [440]
Andrea Rendl	1	14	RendlPHPR12 [524]
Hamid Reza Feyzmahdavian	1	2	Astrand0F21 [36]
Vahid Riahi	1	0	RiahiNS018 [525]
Diane Riopel	1	84	KhayatLR06 [347]
Gregory Rix	1	1	PesantRR15 [506]
Geraldo Robson Mateus	1	1	GomesM17 [258]
Robert Rodosek	1	19	RodosekW98 [526]
Brian Rodrigues	1	5	LimRX04 [393]
Jerome Rogerie	1	148	LaborieRSV18 [376]
Mohammad Rohaninejad	1	0	Mehdizadeh-Somarin23 [435]
Maximiliano Rojel	1	0	YuraszeckMCCR23 [661]
Juli Romera	1	17	EscobetPQPRA19 [202]
Roberto Rossi	1	6	RossiTHP07 [534]
François Roubellat	1	84	ArtiguesR00 [33]
Stéphanie Roussel	1	0	SquillaciPR23 [574]
Didier Rozzonelli	1	0	JourdanFRD94 [330]
Pascal Rubini	1	0	CatusseCBL16 [140]

Table 8: Co-Authors of Articles/Papers

Author	Nr Works	Nr Cites	Entries
Hana Rudová	1	2	MurinR19 [457]
Rubén Ruiz	1	2	NaderiRR23 [465]
Martin Ruskowski	1	1	ParkUJR19 [501]
Anna Ryabokon	1	3	FriedrichFMRSST14 [222]
William S. Havens	1	2	DilkinaDH05 [183]
Mohamed S. Gheith	1	1	AbohashimaEG21 [2]
Gregory S. Zaric	1	3	NaderiBZ22a [461]
Yagmur S. Gök	1	0	GokPTGO23 [275]
Yagmur S. Gök	1	2	GokGSTO20 [251]
David Sacramento	1	2	SacramentoSP20 [536]
Shahram Saeidi	1	1	AlizdehS20 [16]
Abderrahim Sahli	1	3	CarlierSJP21 [137]
Poonam Saini	1	3	PandeyS21a [497]
Fabio Salassa	1	0	AlfieriGPS23 [15]
Amir Salehipour	1	0	EtminaniesfahaniGNMS22 [203]
Sophia Saller	1	2	KoehlerBFFHPSSS21 [352]
Anastasia Salyaeva	1	2	KoehlerBFFHPSSS21 [352]
Guido Sand	1	381	HarjunkoskiMBC14 [283]
Maria Sander	1	3	FriedrichFMRSST14 [222]
Eric Sanlaville	1	7	PoderBS04 [509]
Óscar Sapena	1	22	GarridoOS08 [230]
Özge Satir Akpunar	1	0	IsikYA23 [325]
Abdul Sattar	1	0	RiahiNS018 [525]
Peter Scheiblechner	1	2	KoehlerBFFHPSSS21 [352]
Klaus Schild	1	23	SchildW00 [542]
Thomas Schlechte	1	10	HeinzSSW12 [296]
Thorsten Schmidt	1	1	BenderWS21 [84]
Günter Schmidt	1	38	BlazewiczEP19 [97]
Alexander Schnell	1	24	SchnellH15 [543]
Philipp Schrott-Kostwein	1	0	KovacsTKSG21 [365]
Uwe Schwiegelshohn	1	4	LimtanyakulS12 [397]
Lena Secher Ejlertsen	1	41	PourDERB18 [513]
Evgeny Selensky	1	0	BeckPS03 [69]
Thiago Serra	1	0	SerraNM12 [556]
Mei Sha	1	27	QinDCS20 [520]
Yufen Shao	1	48	GoelSHFS15 [250]
Xinyu Shao	1	2	ChenGPSH10 [147]
Ganquan Shi	1	2	ShiYXQ22 [559]
Zhongshun Shi	1	12	QinWSLS21 [519]
Leyuan Shi	1	12	QinWSLS21 [519]
Stuart Siegel	1	1	DavenportKRSH07 [166]
Maria Silvia Pini	1	1	GelainPRVW17 [241]
Vanessa Simard	1	0	BoudreaultSLQ22 [118]
Pawel Sitek	1	0	WikarekS19 [644]
M. Slusky	1	48	GoelSHFS15 [250]
Kate Smith-Miles	1	3	EdwardsBSE19 [194]
Sonia Sobieraj	1	0	RodriguezS09 [530]
Juha-Pekka Soininen	1	2	QuSN06 [521]
Junbo Son	1	1	ZhuSZW23 [676]
Xiaoqing Song	1	1	ZhangLS12 [671]
Shahabeddin Sotudian	1	55	ZarandiASC20 [664]
Francis Sourd	1	7	SourdN00 [573]
Helge Spieker	1	6	MossigeGSMC17 [453]
Samuel Squillaci	1	0	SquillaciPR23 [574]
Andreas Starzacher	1	3	FriedrichFMRSST14 [222]

Table 8: Co-Authors of Articles/Papers

Author	Nr Works	Nr Cites	Entries
Wolfgang Steigerwald	1	0	GeitzGSSW22 [240]
Rüdiger Stephan	1	10	HeinzSSW12 [296]
Malgorzata Sterna	1	38	BlazewiczEP19 [97]
Gary Strohm	1	0	FoxAS82 [220]
Robin Stöhr	1	0	GeitzGSSW22 [240]
Christian Stürck	1	0	HubnerGSV21 [322]
Kaile Su	1	0	RiahiNS018 [525]
Wei Su	1	1	MakMS10 [423]
Kemal Subulan	1	5	SubulanC22 [575]
Premysl Sucha	1	2	BenediktSMVH18 [87]
Ipek Sugut	1	0	OrnekOS20 [490]
Quanxin Sun	1	24	TangLWSK18 [584]
Zheng Sun	1	4	SunLYL10 [577]
Suresh Sundaram	1	12	SureshMOK06 [578]
Pavel Surynek	1	2	BartakCS10 [56]
Jirí Svancara	1	0	SvancaraB22 [579]
Ria Szeredi	1	9	SzerediS16 [580]
Alina Sîrbu	1	1	GalleguillosKSB19 [227]
Willian T. Lunardi	1	30	LunardiBLRV20 [417]
T. Taimre	1	0	ForbesHJST24 [218]
Yingcong Tan	1	1	TanT18 [582]
Siyu Tang	1	7	VlkHT21 [633]
Yuanjie Tang	1	24	TangLWSK18 [584]
Fabio Tardivo	1	0	TardivoDFMP23 [585]
Armagan Tarim	1	6	RossiTHP07 [534]
Ehsan Tarkesh Esfahani	1	0	YounespourAKE19 [655]
Nikolay Tchernev	1	4	BourreauGGLT22 [119]
Paolo Terenziani	1	1	BrusoniCLMMT96 [124]
Willian Tessaro Lunardi	1	0	Lunardi20 [418]
Stephan Teuschl	1	0	FrohnerTR19 [225]
Jordan Ticktin	1	0	HillTV21 [306]
Kevin Tierney	1	16	KelarevaTK13 [344]
Christian Timpe	1	42	Timpe02 [598]
Mary Tom	1	0	Tom19 [599]
Seyda Topaloglu	1	46	TopalogluO11 [600]
Miguel Toro	1	7	ValleMGT03 [615]
Philippe Torres	1	26	TorresL00 [601]
Meriem Touat	1	0	TouatBT22 [602]
Touraïvane	1	2	Touraivane95 [603]
Hélène Toussaint	1	0	ArtiguesHQT21 [32]
Mariem Trojet	1	11	TrojetHL11 [612]
S. Tunalı	1	5	OzturkTHO12 [680]
Semra Tunalı	1	27	OzturkTHO15 [681]
Paul Tyler	1	0	HebrardTW05 [291]
Jumyung Um	1	1	ParkUJR19 [501]
David Urbach	1	61	RoshanaeiLAU17 [532]
J. V. Moccellin	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 [632]
Mariona Vilà	1	6	YuraszeckMPV22 [660]
Rebekka Volk	1	0	HubnerGSV21 [322]
Holger Voos	1	30	LunardiBLRV20 [417]
Thomas W. M. Vossen	1	0	HillTV21 [306]

Table 8: Co-Authors of Articles/Papers

Author	Nr Works	Nr Cites	Entries
Kai Waelti	1	2	KoehlerBFFHPSSS21 [352]
Runsen Wang	1	12	QinWSLS21 [519]
Futian Wang	1	24	TangLWSK18 [584]
Shouyang Wang	1	49	ZhangW18 [670]
Tao Wang	1	36	WangMD15 [640]
Yi Wang	1	8	GuoHLW20 [271]
Ezra Wari	1	11	WariZ19 [641]
John Wassick	1	381	HarjunkoskiMBC14 [283]
Jan Weglarz	1	38	BlazewiczEP19 [97]
Kong Wei Lye	1	0	LauLN08 [382]
Johan Wessén	1	2	WessenCS20 [643]
Radosław Wichniarek	1	0	CzerniachowskaWZ23 [160]
Jaroslaw Wikarek	1	0	WikarekS19 [644]
Campbell Wilson	1	6	He0GLW18 [288]
Michael Winkler	1	10	HeinzSSW12 [296]
David Wittwer	1	1	BenderWS21 [84]
Keith Womer	1	113	LiW08 [390]
Jianguo Wu	1	1	ZhuSZW23 [676]
Cheng-Hung Wu	1	14	NattafDYW19 [470]
Jörg Würtz	1	23	SchildW00 [542]
Quanshi Xia	1	13	ChuX05 [149]
Hegen Xiong	1	18	FanXG21 [211]
Zhou Xu	1	5	LimRX04 [393]
Yang Xu	1	2	ShiYXQ22 [559]
Tanya Y. Tang	1	6	TangB20 [583]
El Yaakoubi Anass	1	0	FallahiAC20 [210]
Hong Yan	1	8	HookerY02 [319]
Moli Yang	1	1	YangSS19 [654]
Zhouwang Yang	1	2	ShiYXQ22 [559]
Jia-Sheng Yao	1	2	HoYCLLCLC18 [307]
Min Yao	1	4	SunLYL10 [577]
Seung Yeob Shin	1	9	ShinBBHO18 [560]
Vassilios Yfantis	1	3	KlankeBYE21 [350]
Maryam Younespour	1	0	YounespourAKE19 [655]
Chunxia Yu	1	6	ZhangYW21 [669]
Xinghuo Yu	1	11	MartinPY01 [432]
Oleg Yu. Gusikhin	1	1	BarlattCG08 [52]
Claude Yugma	1	14	NattafDYW19 [470]
Peter Yun Zhang	1	8	TranPZLDB18 [607]
Pinar Yunusoglu	1	20	YunusogluY22 [658]
Marco Zaffalon	1	28	Darby-DowmanLMZ97 [164]
Boukhalfa Zahout	1	0	Zahout21 [662]
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 [474]
Haotian Zhang	1	0	ZhangJZL22 [667]
Luping Zhang	1	6	ZhangYW21 [669]
Chaoyong Zhang	1	100	MengZRZL20 [440]
Biao Zhang	1	100	MengZRZL20 [440]
Sicheng Zhang	1	49	ZhangW18 [670]
Xujun Zhang	1	1	ZhangLS12 [671]
Lihui Zhang	1	0	ZouZ20 [679]
Jiachen Zhang	1	0	ZhangBB22 [668]
Guoqing Zhang	1	0	NaderiBZ22 [462]

Table 8: Co-Authors of Articles/Papers

Author	Nr Works	Nr Cites	Entries
Xi Zhang	1	1	ZhuSZW23 [676]
Jinlian Zhou	1	0	ZhouGL15 [674]
Weihang Zhu	1	11	WariZ19 [641]
Jianjun Zhu	1	0	GuoZ23 [272]
Xuedong Zhu	1	1	ZhuSZW23 [676]
Pawel Zielinski	1	13	FortinZDF05 [219]
Jürgen Zimmermann	1	25	KreterSSZ18 [368]
Xin Zou	1	0	ZouZ20 [679]
Mathijs de Weerdt	1	1	BogaerdtW19 [617]
Bruno de Athayde Prata	1	0	AbreuAPNM21 [167]
Alexis de Clercq	1	0	Clercq12 [170]
Roman van der Krogt	1	2	KrogtLPHJ07 [618]
Pim van den Bogaerdt	1	1	BogaerdtW19 [617]
Willem-Jan van Hoeve	1	12	HookerH17 [318]
F.A. van der Schoot	1	0	ForbesHJST24 [218]
Stefano Di Alesio	1	3	AlesioNBG14 [182]
Sonia Sobieraj Richard	1	1	MarliereSPR23 [431]
Ulas Özen	1	8	TerekhovDOB12 [590]
Selin Özpeynirci	1	31	GokgurHO18 [252]
Cemalettin Öztürk	1	31	OzturkTHO13 [496]
Nahum Álvarez	1	0	PovedaAA23 [514]
Seán Óg Murphy	1	1	MurphyMB15 [458]
Gizem Çakir	1	5	SubulanC22 [575]
M.A. Örnek	1	5	OzturkTHO12 [680]
Arslan Örnek	1	27	OzturkTHO15 [681]
C. Öztürk	1	5	OzturkTHO12 [680]
Cemalettin Öztürk	1	27	OzturkTHO15 [681]
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	[326]	1999	European Journal of Operational Research	45	490	150	1374	1788
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	[283]	2014	Computers Chemical Engineering	33	381	176	1357	1682
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	1299	1797
HookerO03 HookerO03	John N. Hooker, G. Ottosson	Logic-based Benders decomposition	Yes	[317]	2003	Mathematical Programming	28	317	0	1369	1764
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	[327]	2001	INFORMS Journal on Computing	19	279	23	1373	1773
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	1268	1802
Hooker00 Hooker00	John N. Hooker	Logic Based Methods for Optimization: Combining Optimization and Constraint Satisfaction	No	[308]	2000	Book	null	185	0	No	n/a
Hooker07 Hooker07	John N. Hooker	Planning and Scheduling by Logic-Based Benders Decomposition	Yes	[313]	2007	Operations Research	29	181	19	1367	1750
HarjunkoskiG02 HarjunkoskiG02	I. Harjunkoski, Ignacio E. Grossmann	Decomposition techniques for multistage scheduling problems using mixed-integer and constraint programming methods	Yes	[282]	2002	Computers Chemical Engineering	20	169	11	1356	1768
BeldiceanuC94 BeldiceanuC94	N. Beldiceanu, E. Contejean	Introducing Global Constraints in CHIP	Yes	[78]	1994	Mathematical and Computer Modelling	27	167	8	1292	1800
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	[376]	2018	Constraints An Int. J.	41	148	35	1392	1641
Laborie03 Laborie03	P. Laborie	Algorithms for propagating resource constraints in AI planning and scheduling: Existing approaches and new results	Yes	[373]	2003	Artificial Intelligence	38	128	10	1391	1766
OhrimenkoSC09 OhrimenkoSC09	O. Ohrimenko, Peter J. Stuckey, M. Codish	Propagation via lazy clause generation	Yes	[488]	2009	Constraints An Int. J.	35	127	15	1440	1737
KuB16 KuB16	W. Ku, J. Christopher Beck	Mixed Integer Programming models for job shop scheduling: A computational analysis	Yes	[369]	2016	Computers Operations Research	9	119	17	1389	1661
Rodriguez07 Rodriguez07	J. Rodriguez	A constraint programming model for real-time train scheduling at junctions	Yes	[527]	2007	Transportation Research Part B: Methodological	15	117	6	1458	1751
LiW08 LiW08	H. Li, K. Womer	Scheduling projects with multi-skilled personnel by a hybrid MILP/CP benders decomposition algorithm	Yes	[390]	2008	Journal of Scheduling	18	113	31	1396	1743
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	1317	1749
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	[440]	2020	Computers Industrial Engineering	13	100	62	1416	1605
BensanaLV99 BensanaLV99	E. Bensana, M. Lemaître, G. Verfaillie	Earth Observation Satellite Management	Yes	[91]	1999	Constraints An Int. J.	7	99	0	1297	1787

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	[498]	1994	Intelligent Systems Engineering	34	98	0	1449	1801
Wallace96 Wallace96	M. Wallace	Practical Applications of Constraint Programming	Yes	[635]	1996	Constraints An Int. J.	30	87	55	1494	1799
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	1321	1804
KhayatLR06 KhayatLR06	Ghada El Khayat, A. Langevin, D. Riopel	Integrated production and material handling scheduling using mathematical programming and constraint programming	Yes	[347]	2006	European Journal of Operational Research	15	84	14	1381	1754
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	1273	1776
SakkoutW00 SakkoutW00	Hani El Sakkout, M. Wallace	Probe Backtrack Search for Minimal Perturbation in Dynamic Scheduling	Yes	[539]	2000	Constraints An Int. J.	30	73	0	1465	1782
TranAB16 TranAB16	Tony T. Tran, A. Araujo, J. Christopher Beck	Decomposition Methods for the Parallel Machine Scheduling Problem with Setups	Yes	[604]	2016	INFORMS Journal on Computing	13	72	28	1487	1665
GombolayWS18 GombolayWS18	Matthew C. Gombolay, Ronald J. Wilcox, Julie A. Shah	Fast Scheduling of Robot Teams Performing Tasks With Temporospatial Constraints	Yes	[256]	2018	IEEE Transactions on Robotics	20	71	75	1343	1637
Hooker05 Hooker05	John N. Hooker	A Hybrid Method for the Planning and Scheduling	Yes	[310]	2005	Constraints An Int. J.	17	68	11	1365	1759
Thorsteinsson01 Thorsteinsson01	Erlendur S. Thorsteinsson	Branch-and-Check: A Hybrid Framework Integrating Mixed Integer Programming and Constraint Logic Programming	Yes	[597]	2001	CP 2001	15	67	12	606	947

6 Problem Classification

Table 10: Problem Classification Types

Code	Name
JSSP	Job-Shop Scheduling Problem
JSPT	Job-Shop Scheduling Problem with Transportation
PP-MS-MMRCPSP/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 [575], OrnekO16 [489]		HoundjiSW19 [320], abs-1902-01193 [14]
Concepts	Benders Decomposition	ForbesHJST24 [218], JuvinHL23a [335], GuoZ23 [272], ZhuSZW23 [676], JuvinHL22 [333], EmdeZD22 [200], ElciOH22 [196], NaderiBZ22a [461], NaderiBZ22 [462], VlkHT21 [633], RoshanaeiBAUB20 [531], Hooker19 [316], TanT18 [582], GombolayWS18 [256], GoldwaserS18 [254], GomesM17 [258], HookerH17 [318], CireCH16 [151], Froger16 [224], HechingH16 [292], TranAB16 [604], BajestaniB15 [43], BajestaniB13 [42], CireCH13 [150], HeinzKB13 [295], TranB12 [605], LombardiM12 [409], LimtanyakulS12 [397], HeinzB12 [294]... (Total: 47)	NaderiRR23 [465], TangB20 [583], Laborie18a [375], TranVNB17 [609], RoshanaeiLAU17 [532], GoldwaserS17 [253], HarjunkoskiMBC14 [283], GuyonLPR12 [274], LombardiMRB10 [412], BeniniLMR08 [89], Hooker05a [311], HookerY02 [319]	PrataAN23 [517], PovedaAA23 [514], AlfieriGPS23 [15], JuvinHHL23 [332], LuoB22 [420], FarsiTM22 [212], Godet21a [248], Mercier-AubinGQ20 [442], Polo-MejiaALB20 [511], QinDCS20 [520], WallaceY20 [637], MengZRZL20 [440], AntunesABD20 [20], MurinR19 [457], FrimodigS19 [223], LaborieRSV18 [376], CappartTSR18 [131], AntunesABD18 [19], BoothNB16 [115], FontaineMH16 [217], Fahimi16 [206], EvenSH15a [205], BurtLPS15 [125], EvenSH15 [204], LipovetzkyBPS14 [398], KoschB14 [357], BlomBPS14 [99], KelarevaTK13 [344], TerekhovDOB12 [590]... (Total: 39)
Concepts	Logic-Based Benders Decomposition	ForbesHJST24 [218], GuoZ23 [272], ZhuSZW23 [676], JuvinHL23a [335], ElciOH22 [196], JuvinHL22 [333], EmdeZD22 [200], NaderiBZ22a [461], VlkHT21 [633], Hooker19 [316], GoldwaserS18 [254], TanT18 [582], HookerH17 [318], HechingH16 [292], CireCH16 [151], TranAB16 [604], BajestaniB15 [43], HeinzKB13 [295], BajestaniB13 [42], CireCH13 [150], TranB12 [605], LombardiM12 [409], BeniniLMR11 [90], BajestaniB11 [41], CobanH11 [154], Hooker07 [313], Hooker05 [310], Hooker04 [309], HookerO03 [317]	NaderiRR23 [465], NaderiBZ22 [462], RoshanaeiBAUB20 [531], TangB20 [583], Laborie18a [375], GoldwaserS17 [253], Froger16 [224], HeinzB12 [294], GuyonLPR12 [274], Lombardi10 [402], CobanH10 [153], MilanoW09 [446], BeniniLMR08 [89], CorreaLR07 [159], Hooker06 [312], HookerY02 [319]	PrataAN23 [517], JuvinHHL23 [332], FarsiTM22 [212], Mercier-AubinGQ20 [442], QinDCS20 [520], WallaceY20 [637], MurinR19 [457], CappartTSR18 [131], GombolayWS18 [256], AntunesABD18 [19], LaborieRSV18 [376], GomesM17 [258], TranVNB17 [609], RoshanaeiLAU17 [532], FontaineMH16 [217], BoothNB16 [115], Fahimi16 [206], KoschB14 [357], HarjunkoskiMBC14 [283], TerekhovDOB12 [590], EdisO11 [192], HachemiGR11 [276], KovacsK11 [362], LombardiMRB10 [412], LombardiM10a [406], RuggieroBBMA09 [535], RodriguezS09 [530], BeniniBGM06 [88], MilanoW06 [445]... (Total: 34)
Concepts	Pareto	FarsiTM22 [212], Lemos21 [385], Zahout21 [662], ZarandiASC20 [664], Dejemeppe16 [173], KovacsK11 [362]	YounespourAKE19 [655], DejemeppeD14 [175], HeckmanB11 [293]	CzerniachowskaWZ23 [160], GokPTGO23 [275], JuvinHL23a [335], LacknerMMWW23 [378], JuvinHL22 [333], OrnekOS20 [490], WinterMMW22 [645], AntuoriHHEN20 [21], Lunardi20 [418], EscobetPQPRA19 [202], GurEA19 [682], CappartTSR18 [131], GomesM17 [258], BridiBLMB16 [121], Froger16 [224], HarjunkoskiMBC14 [283], RuggieroBBMA09 [535], Baptiste02 [44], VanczaM01 [620], FocacciLN00 [216]

Type	Keyword	High	Medium	Low
Concepts	activity	TardivoDFMP23 [585], GokPTGO23 [275], PovedaAA23 [514], AalianPG23 [1], PenzDN23 [503], MarliereSPR23 [431], CampeauG22 [129], SvancaraB22 [579], TouatBT22 [602], SubulanC22 [575], BenderWS21 [84], KlankeBYE21 [350], Astrand21 [35], HubnerGSV21 [322], Godet21a [248], ZarandiASC20 [664], CauwelaertDS20 [143], HauderBRPA20 [287], Polo-MejiaALB20 [511], AstrandJZ20 [38], BadicaBI20 [39], ZouZ20 [679], ThomasKS20 [596], abs-1902-09244 [286], GeibingerMM19 [238], NattafHKAL19 [471], YounespourAKE19 [655], Caballero19 [127], BadicaBIL19 [40]... (Total: 173)	BonninMNE24 [114], YuraszeckMCCR23 [661], AfsarVPG23 [8], Bit-Monnot23 [96], BoudreaultSLQ22 [118], PopovicCGNC22 [512], Lunardi20 [418], LunardiBLRV20 [417], AntunesABD20 [20], GokGSTO20 [251], Hooker19 [316], EscobetPQPRA19 [202], Novas19 [479], YangSS19 [654], ShinBBHO18 [560], SchuttS16 [553], BoothNB16 [115], OrnekO16 [489], TranWDRFOVB16 [611], VilimLS15 [631], Derrien15 [179], GoelSHFS15 [250], HarjunkoskiMBC14 [283], DoulabiRP14 [190], LombardiM13 [410], LombardiMB13 [411], Clercq12 [170], BonfiettiM12 [112], ChapadosJR11 [146]... (Total: 52)	PrataAN23 [517], GuoZ23 [272], JuvinHL23a [335], abs-2312-13682 [505], CzerniachowskaWZ23 [160], ShaikhK23 [557], SquillaciPR23 [574], abs-2305-19888 [300], PerezGSL23 [504], PohlAK22 [510], OuelletQ22 [493], MullerMKP22 [456], JuvinHL22 [333], YunusogluY22 [658], HeinzNVH22 [299], abs-2211-14492 [576], HebrardALLCMR22 [289], EtminaniesfahaniGNMS22 [203], Groleaz21 [264], HillTV21 [306], Zahout21 [662], GeibingerMM21 [239], Astrand0F21 [36], ZhangYW21 [669], PandeyS21a [497], QinDCS20 [520], Mercier-AubinGQ20 [442], SacramentoSP20 [536], RoshanaeiBAUB20 [531]... (Total: 92)
Concepts	batch process	LacknerMMWW23 [378], LacknerMMWW21 [377], QinWSLS21 [519], ZarandiASC20 [664], HamC16 [280], NovaraNH16 [478], KoschB14 [357], HarjunkoskiMBC14 [283], Malapert11 [424]	TangB20 [583], NovasH10 [480], Vilim02 [622], SimonisC95 [571]	PrataAN23 [517], IsikYA23 [325], Adelgren2023 [7], YuraszeckMCCR23 [661], MullerMKP22 [456], SvancaraB22 [579], EmdeZD22 [200], LiFJZLL22 [391], ColT22 [161], AbreuN22 [168], GeitzGSSW22 [240], YunusogluY22 [658], OujanaAYB22 [494], LuoB22 [420], FanXG21 [211], ZhangYW21 [669], KlankeBYE21 [350], MengZRZL20 [440], Lunardi20 [418], CauwelaertDS20 [143], EscobetPQPRA19 [202], FahimiOQ18 [207], Ham18a [278], Ham18 [277], LaborieRSV18 [376], Fahimi16 [206], CauwelaertDMS16 [141], Dejemeppe16 [173], Froger16 [224]... (Total: 36)
Concepts	bi-objective	ZarandiASC20 [664]	AbreuPNF23 [3], IsikYA23 [325], YunusogluY22 [658], HillTV21 [306], Lemos21 [385], NattafM20 [472], Dejemeppe16 [173], DejemeppeD14 [175]	PrataAN23 [517], AfsarVPG23 [8], GokPTGO23 [275], GurPAE23 [273], Mehdizadeh-Somarin23 [435], NaderiRR23 [465], abs-2305-19888 [300], AbreuN22 [168], EmdeZD22 [200], FarsiTM22 [212], HeinzNVH22 [299], MullerMKP22 [456], PopovicCGNC22 [512], WinterMMW22 [645], Groleaz21 [264], HamPK21 [279], VlkHT21 [633], Zahout21 [662], GokGSTO20 [251], HauderBRPA20 [287], Lunardi20 [418], LunardiBLRV20 [417], MejiaY20 [436], RoshanaeiBAUB20 [531], WallaceY20 [637], MalapertN19 [427], abs-1902-09244 [286], HamC16 [280], Nattaf16 [466], BurtLPS15 [125]
Concepts	bill of material		OrnekO16 [489]	Simonis07 [569]
Concepts	blocking constraint	AbreuNP23 [169], RiahiNS018 [525]		IsikYA23 [325], LiFJZLL22 [391], MengZRZL20 [440], RodriguezS09 [530], Rodriguez07b [528], Rodriguez07 [527]
Concepts	breakdown	FanXG21 [211], Groleaz21 [264], ZarandiASC20 [664], LaborieRSV18 [376], ZhangW18 [670], Froger16 [224], BartakV15 [59], NovasH10 [480], BidotVLB09 [94]	Lunardi20 [418], GombolayWS18 [256], RoshanaeiLAU17 [532], BajestaniB15 [43], HarjunkoskiMBC14 [283], ThiruvadyWGS14 [595], BajestaniB13 [42], BajestaniB11 [41], Elkhyari03 [197], MartinPY01 [432]	Fatemi-AnarakiTFV23 [213], IsikYA23 [325], JuvinHL23 [334], PenzDN23 [503], ColT22 [161], MullerMKP22 [456], SubulanC22 [575], YunusogluY22 [658], AbreuAPNM21 [167], Astrand21 [35], KovacsTKSG21 [365], AstrandJZ20 [38], HauderBRPA20 [287], MalapertN19 [427], abs-1902-09244 [286], GedikKEK18 [235], CappartS17 [130], CireCH16 [151], ZarandiKS16 [663], OzturkTHO15 [681], LipovetzkyBPS14 [398], BegB13 [75], OzturkTHO13 [496], NovasH12 [481], BeckFW11 [66], KovacsK11 [362], ZeballosQH10 [666], Laborie09 [374], Malik08 [428]... (Total: 34)
Concepts	buffer-capacity		SureshMOK06 [578]	LiFJZLL22 [391], OujanaAYB22 [494], RiahiNS018 [525], BonfiettiLBM14 [109], NovasH14 [482], TerekhovTDB14 [591], ZeballosH05 [665]

Type	Keyword	High	Medium	Low
Concepts	cmax	Fatemi-AnarakiTFV23 [213], YuraszeckMCCR23 [661], KameugneFND23 [340], NaderiRR23 [465], ZhuSZW23 [676], JuvinHHL23 [332], AbreuNP23 [169], YuraszeckMC23 [659], abs-2305-19888 [300], IsikYA23 [325], FetgoD22 [215], EtminaniesfahaniGNMS22 [203], AbreuN22 [168], abs-2211-14492 [576], YunusogluY22 [658], JuvinHL22 [333], ZhangBB22 [668], ArmstrongGOS21 [26], Godet21a [248], QinWSLS21 [519], Groleaz21 [264], AbohashimaEG21 [2], Polo-MejiaALB20 [511], MejiaY20 [436], MengZRZL20 [440], Lunardi20 [418], QinDCS20 [520], GodetLHS20 [249], YounespourAKE19 [655]... (Total: 65)	Mehdizadeh-Somarin23 [435], MullerMKP22 [456], ArmstrongGOS22 [27], BoudreaultSLQ22 [118], AbreuAPNM21 [167], HamPK21 [279], ArkhipovBL19 [25], Novas19 [479], ParkUJR19 [501], ArbaouiY18 [24], GrimesH15 [261], WangMD15 [640], ZhouGL15 [674], MenciaSV13 [439], MenciaSV12 [438], ZhangLS12 [671], BeckFW11 [66], OzturkTHO10 [495], BartakSR10 [58], MoffittPP05 [447], Muscettola02 [459], SourdN00 [573], ArtiguesR00 [33]	JuvinHL23 [334], Teppan22 [589], ZhangYW21 [669], HanenKP21 [281], HubnerGSV21 [322], ZarandiASC20 [664], GokgurHO18 [252], LiuCGM17 [400], BofillCSV17 [103], OrnekO16 [489], SialaAH15 [563], SchnellH15 [543], KoschB14 [357], LombardiMB13 [411], SchuttFSW13 [551], Letort13 [386], MalapertCGJLR13 [426], TerekhovDOB12 [590], GuSW12 [270], Schutt11 [544], abs-1009-0347 [549], LiessM08 [392], WatsonB08 [642], AkkerDH07 [616], KeriK07 [346], KhayatLR06 [347], Laborie03 [373], BaptisteP00 [49], FocacciLN00 [216]
Concepts	completion-time	PrataAN23 [517], BonninMNE24 [114], AbreuNP23 [169], Mehdizadeh-Somarin23 [435], ZhuSZW23 [676], Fatemi-AnarakiTFV23 [213], AlfieriGPS23 [15], AbreuPNF23 [3], KameugneFND23 [340], JuvinHL23 [334], PenzDN23 [503], NaderiRR23 [465], EmdeZD22 [200], OuelletQ22 [493], FetgoD22 [215], YuraszeckMPV22 [660], JuvinHL22 [333], AbreuN22 [168], YunusogluY22 [658], SubulanC22 [575], NaderiBZ22 [462], KlankeBYE21 [350], Bedhief21 [74], Groleaz21 [264], Astrand21 [35], ArmstrongGOS21 [26], LunardiBLRV20 [417], QinDCS20 [520], CauwelaertDS20 [143]... (Total: 92)	GokPTGO23 [275], AfsarVPG23 [8], CzerniachowskaWZ23 [160], abs-2305-19888 [300], LiFJZLL22 [391], ZhangBB22 [668], abs-2211-14492 [576], MullerMKP22 [456], ColT22 [161], Teppan22 [589], NaderiBZ22a [461], TouatBT22 [602], OujanaAYB22 [494], HeinzNVH22 [299], FanXG21 [211], GeibingerMM21 [239], QinWSLS21 [519], AbreuAPNM21 [167], HanenKP21 [281], NattafM20 [472], Mercier-AubinGQ20 [442], Polo-MejiaALB20 [511], abs-1902-09244 [286], BogaerdtW19 [617], GeibingerMM19 [238], ParkUJR19 [501], YangSS19 [654], abs-1911-04766 [237], MalapertN19 [427]... (Total: 62)	abs-2402-00459 [474], TasselGS23 [586], MontemanniD23a [451], AkramNHRSA23 [13], IsikYA23 [325], JuvinHHL23 [332], Adelgren2023 [7], abs-2306-05747 [587], PerezGSL23 [504], FarsiTM22 [212], PopovicCGNC22 [512], CampeauG22 [129], PohlAK22 [510], GeitzGSSW22 [240], ZhangJZL22 [667], WinterMMW22 [645], ArmstrongGOS22 [27], HubnerGSV21 [322], Zahout21 [662], VlkHT21 [633], HamPK21 [279], Godet21a [248], PandeyS21a [497], WessenCS20 [643], MengZRZL20 [440], GodetLHS20 [249], SacramentoSP20 [536], ZouZ20 [679], AstrandJZ20 [38]... (Total: 110)
Concepts	continuous-process	HarjunkoskiMBC14 [283]		FarsiTM22 [212], Dejemeppe16 [173], GaySS14 [234], Bartak02 [54], SimonisC95 [571]
Concepts	cyclic scheduling	OzturkTHO15 [681], BonfiettiLBM14 [109], HarjunkoskiMBC14 [283], BonfiettiLM13 [110], BonfiettiLBM12 [108], BonfiettiLBM11 [107], LombardiBMB11 [404]	Fatemi-AnarakiTFV23 [213], BonfiettiZLM16 [113], BonfiettiM12 [112], KorbaaYG99 [355], RodosekW98 [526]	YuraszeckMPV22 [660], MengZRZL20 [440], WallaceY20 [637], MusliuSS18 [460], OzturkTHO13 [496], OzturkTHO12 [680], Menana11 [437], Malik08 [428], Wallace06 [636], Mason01 [434]
Concepts	distributed	PrataAN23 [517], GuoZ23 [272], NaderiRR23 [465], Zahout21 [662], ZarandiASC20 [664], MengZRZL20 [440], He0GLW18 [288], GombolayWS18 [256], TranPZLDB18 [607], RoshanaeiLAU17 [532], BridiLBBM16 [122], BridiBLMB16 [121], ZhouGL15 [674], TerekhovTDB14 [591], BonfiettiLM14 [111], BartakS11 [57], BartakSR10 [58], LombardiMRB10 [412], WuBB09 [653], RuggieroBBMA09 [535], BeckW07 [73], HoeveGSL07 [619], RossiTHP07 [534], SureshMOK06 [578], GomesHS06 [257], Geske05 [243], BeckW04 [71], Beck99 [62], LammaMM97 [381]	AbreuPNF23 [3], ShaikhK23 [557], MarliereSPR23 [431], GokPTGO23 [275], AbreuNP23 [169], IsikYA23 [325], JungblutK22 [331], NaderiBZ22a [461], OrnekOS20 [490], AbreuN22 [168], OujanaAYB22 [494], YuraszeckMPV22 [660], ElciOH22 [196], Godet21a [248], AbreuAPNM21 [167], GokGSTO20 [251], MokhtarzadehTNF20 [448], RoshanaeiBAUB20 [531], ZouZ20 [679], Caballero19 [127], NishikawaSTT19 [477], BorghesiBLMB18 [116], ZhangW18 [670], GomesM17 [258], BlomPS16 [100], ZarandiKS16 [663], GrimesH15 [261], HarjunkoskiMBC14 [283], BlomBPS14 [99]... (Total: 45)	ForbesHJST24 [218], Bit-Monnot23 [96], MontemanniD23 [452], Adelgren2023 [7], abs-2305-19888 [300], SquillaciPR23 [574], Fatemi-AnarakiTFV23 [213], YuraszeckMC23 [659], ZhuSZW23 [676], KimCMLLP23 [349], AlfieriGPS23 [15], GurPAE23 [273], JuvinHL23a [335], AkramNHRSA23 [13], abs-2211-14492 [576], EmdeZD22 [200], NaderiBZ22 [462], TouatBT22 [602], Teppan22 [589], BoudreaultSLQ22 [118], ColT22 [161], LiFJZLL22 [391], FarsiTM22 [212], WinterMMW22 [645], ZhangBB22 [668], HeinzNVH22 [299], JuvinHL22 [333], Astrand21 [35], FanXG21 [211]... (Total: 137)

Table 11: Works for Concepts of Type Concepts

Type	Keyword	High	Medium	Low
Concepts	due-date	AfsarVPG23 [8], OujanaAYB22 [494], ColT22 [161], NaderiBZ22 [462], AntuoriHHEN21 [22], FanXG21 [211], Groleaz21 [264], AntuoriHHEN20 [21], ZarandiASC20 [664], TangB20 [583], HauderBRPA20 [287], Mercier-AubinGQ20 [442], Lunardi20 [418], AntunesABD20 [20], HoundjiSW19 [320], Novas19 [479], abs-1911-04766 [237], abs-1902-09244 [286], GoldwaserS18 [254], Tesch18 [593], GoldwaserS17 [253], Fahimi16 [206], NovaraNH16 [478], Dejemeppe16 [173], BajestaniB15 [43], DoulabiRP14 [190], HarjunkoskiMBC14 [283], KoschB14 [357], HoundjiSWD14 [321]... (Total: 58)	PrataAN23 [517], IsikYA23 [325], LacknerMMWW23 [378], NaderiRR23 [465], YunusogluY22 [658], abs-2211-14492 [576], WinterMMW22 [645], Godet21a [248], LacknerMMWW21 [377], GeibingerMM21 [239], GroleazNS20a [265], GeibingerMM19 [238], AntunesABD18 [19], FahimiOQ18 [207], ZarandiKS16 [663], CatusseCBL16 [140], GrimesH15 [261], GrimesIOS14 [263], HeinzSB13 [298], CobanH11 [154], GrimesH11 [260], Malapert11 [424], LombardiM10a [406], Lombardi10 [402], MakMS10 [423], SchuttW10 [554], Davenport10 [165], ThiruvadyBME09 [594], abs-0907-0939 [507]... (Total: 45)	abs-2402-00459 [474], AbreuPNF23 [3], YuraszeckMC23 [659], JuvinHHL23 [332], KimCMLLP23 [349], TouatBT22 [602], YuraszeckMPV22 [660], ElciOH22 [196], ZhangJZL22 [667], SubulanC22 [575], MullerMKP22 [456], Astrand21 [35], HubnerGSV21 [322], VlkHT21 [633], KlankeBYE21 [350], Bedhief21 [74], KovacsTKSG21 [365], Zahout21 [662], HanenKP21 [281], MejiaY20 [436], Polo-MejiaALB20 [511], GroleazNS20 [266], LunardiBLRV20 [417], AstrandJZ20 [38], Hooker19 [316], ParkUJR19 [501], EscobetPQPRA19 [202], GokgurHO18 [252], GedikKEK18 [235]... (Total: 86)
Concepts	earliness	PrataAN23 [517], KimCMLLP23 [349], PohlAK22 [510], TouatBT22 [602], Groleaz21 [264], ZarandiASC20 [664], HauderBRPA20 [287], abs-1902-09244 [286], LaborieRSV18 [376], ZarandiKS16 [663], Dejemeppe16 [173], GrimesH15 [261], LombardiM12 [409], KelbelH11 [345], GrimesH11 [260], MonetteDH09 [450], Laborie09 [374], KeriK07 [346], BeckR03 [70], DannaP03 [163]	FarsiTM22 [212], AntunesABD20 [20], MengZRZL20 [440], TerekhovDOB12 [590], KovacsB11 [360], Davenport10 [165], Baptiste02 [44]	abs-2402-00459 [474], NaderiRR23 [465], AbreuNP23 [169], PenzDN23 [503], AlfieriGPS23 [15], LacknerMMWW23 [378], AbreuPNF23 [3], IsikYA23 [325], EtminaniesfahaniGNMS22 [203], YunusogluY22 [658], LacknerMMWW21 [377], FanXG21 [211], Polo-MejiaALB20 [511], Mercier-AubinGQ20 [442], ColT19 [157], AntunesABD18 [19], ZhangW18 [670], German18 [242], GokgurHO18 [252], KuB16 [369], NovaraNH16 [478], OrnekO16 [489], Siala15a [562], VilimLS15 [631], LimBTBB15 [395], Siala15 [561], SialaAH15 [563], HarjunkoskiMBC14 [283], BajestaniB13 [42]... (Total: 46)
Concepts	energy efficiency	PrataAN23 [517], PandeyS21a [497], RuggieroBBMA09 [535]	MarliereSPR23 [431], Zahout21 [662], BenediktMH20 [86], BridiBLMB16 [121], Lombardi10 [402]	AbreuNP23 [169], IsikYA23 [325], abs-2211-14492 [576], Lemos21 [385], MengZRZL20 [440], ZarandiASC20 [664], TranPZLDB18 [607], NattafAL17 [468], Dejemeppe16 [173], LombardiMB13 [411], LombardiM12 [409], BeniniLMR11 [90]
Concepts	flow-shop	BonninMNE24 [114], PrataAN23 [517], NaderiRR23 [465], AlfieriGPS23 [15], IsikYA23 [325], AbreuPNF23 [3], AbreuNP23 [169], CzerniachowskaWZ23 [160], JuvinHHL23 [334], ArmstrongGOS22 [27], AbreuN22 [168], LiFJZLL22 [391], OujanaAYB22 [494], ColT22 [161], ZhangJZL22 [667], Astrand21 [35], QinWSLS21 [519], ArmstrongGOS21 [26], Bedhief21 [74], Groleaz21 [264], AbreuAPNM21 [167], MengZRZL20 [440], AstrandJZ20 [38], ZarandiASC20 [664], Lunardi20 [418], Novas19 [479], ParkUJR19 [501], ZhangW18 [670], ZhouGL15 [674]... (Total: 38)	JuvinHL23a [335], Mehdizadeh-Somarin23 [435], NaderiBZ22 [462], YuraszeckMPV22 [660], JuvinHL22 [333], KoehlerBFFHPSSS21 [352], Godet21a [248], FanXG21 [211], TangB20 [583], HauderBRPA20 [287], abs-1902-09244 [286], GombolayWS18 [256], LaborieRSV18 [376], Fahimi16 [206], Dejemeppe16 [173], GuyonLPR12 [274], GrimesH11 [260], KovacsB11 [360], BartakSR10 [58], JainM99 [326], AggounB93 [9]	TasselGS23 [586], YuraszeckMCCR23 [661], abs-2305-19888 [300], JuvinHHL23 [332], AfsarVPG23 [8], AalianPG23 [1], abs-2306-05747 [587], abs-2211-14492 [576], TouatBT22 [602], Teppan22 [589], NaderiBZ22a [461], HeinzNVH22 [299], HamPK21 [279], LacknerMMWW21 [377], HillTV21 [306], Zahout21 [662], abs-2102-08778 [156], KovacsTKSG21 [365], PandeyS21a [497], WallaceY20 [637], LunardiBLRV20 [417], SacramentoSP20 [536], WikarekS19 [644], TanT18 [582], RiahiNS018 [525], GokgurHO18 [252], GoldwaserS18 [254], HookerH17 [318], Nattaf16 [466]... (Total: 63)
Concepts	flow-time	BonninMNE24 [114], PenzDN23 [503], EmdeZD22 [200], YuraszeckMPV22 [660], FanXG21 [211], NattafM20 [472], ZarandiASC20 [664], MalapertN19 [427], ZhangW18 [670], TerekhovTDB14 [591], TranTDB13 [608], WuBB09 [653], Baptiste02 [44]	PrataAN23 [517], AlfieriGPS23 [15], YunusogluY22 [658], Malapert11 [424], BeckW07 [73]	YuraszeckMCCR23 [661], TasselGS23 [586], abs-2306-05747 [587], YuraszeckMC23 [659], LiFJZLL22 [391], AbreuN22 [168], KoehlerBFFHPSSS21 [352], MengZRZL20 [440], Novas19 [479], ParkUJR19 [501], BajestaniB15 [43], MenciaSV13 [439], MenciaSV12 [438], EdisO11 [192], KovacsB11 [360], QuirogaZH05 [522], BeckPS03 [69], BeckR03 [70]

Table 11: Works for Concepts of Type Concepts

Type	Keyword	High	Medium	Low
Concepts	inventory	GuoZ23 [272], SubulanC22 [575], Astrand21 [35], German18 [242], GilesH16 [245], GoelSHFS15 [250], HarjunkoskiMBC14 [283], SerraNM12 [556], TerekhovDOB12 [590], LopesCSM10 [413], Jans09 [328], RossiTHP07 [534], Timpe02 [598], Beck99 [62], BeckDF97 [65]	Adelgren2023 [7], EmdeZD22 [200], ZarandiASC20 [664], Novas19 [479], Hooker19 [316], Ham18a [278], BajestaniB13 [42], MakMS10 [423], LauLN08 [382], MouraSCL08a [454], GarganiR07 [228], DavenportKRSH07 [166], BeckF00 [68], Simonis99 [568], BlazewiczDP96 [126], Simonis95a [566]	PrataAN23 [517], PerezGSL23 [504], abs-2312-13682 [505], ZhuSZW23 [676], GokPTGO23 [275], AlfieriGPS23 [15], GurPAE23 [273], PohlAK22 [510], YunusogluY22 [658], AbreuN22 [168], Groleaz21 [264], KovacsTKSG21 [365], HubnerGSV21 [322], HauderBRPA20 [287], GroleazNS20a [265], GroleazNS20 [266], YounespourAKE19 [655], HoundjiSW19 [320], abs-1902-09244 [286], WikarekS19 [644], Ham18 [277], LaborieRSV18 [376], ShinBBHO18 [560], GomesM17 [258], Nattaf16 [466], SchuttS16 [553], Froger16 [224], OrnekO16 [489], OzturkTHO15 [681]... (Total: 54)
Concepts	job	abs-2402-00459 [474], PrataAN23 [517], ForbesHJST24 [218], AbreuPNF23 [3], JuvinHHL23 [332], PenzDN23 [503], AlfieriGPS23 [15], YuraszeckMC23 [659], AfsarVPG23 [8], LacknerMMWW23 [378], Bit-Monnot23 [96], ZhuSZW23 [676], Fatemi-AnarakiTFV23 [213], Mehdizadeh-Somarin23 [435], KimCMLLP23 [349], AbreuNP23 [169], IsikYA23 [325], WangB23 [639], CzerniachowskaWZ23 [160], abs-2306-05747 [587], NaderiRR23 [465], JuvinHL23 [334], TasselGS23 [586], JuvinHL23a [335], YuraszeckMCCR23 [661], EtminaniesfahaniGNMS22 [203], TouatBT22 [602], MullerMKP22 [456], ArmstrongGOS22 [27]... (Total: 270)	BonninMNE24 [114], ShaikhK23 [557], abs-2305-19888 [300], EfthymiouY23 [195], Adelgren2023 [7], MarliereSPR23 [431], LuoB22 [420], HeinzNVH22 [299], BourreauGGLT22 [119], HanenKP21 [281], Lemos21 [385], Mercier-AubinGQ20 [442], GokGSTO20 [251], MokhtarzadehTNF20 [448], RoshanaeiBAUB20 [531], ArkhipovBL19 [25], EscobetPQPRA19 [202], Tom19 [599], GurEA19 [682], German18 [242], PourDERB18 [513], NattafAL17 [468], CappartS17 [130], RoshanaeiLAU17 [532], ZarandiKS16 [663], TranWDRFOVB16 [611], Madi-WambaB16 [421], CatusseCBL16 [140], LetortCB15 [389]... (Total: 61)	PovedaAA23 [514], GuoZ23 [272], GokPTGO23 [275], PohlAK22 [510], CampeauG22 [129], KlankeBYE21 [350], HubnerGSV21 [322], AntuoriHHEN21 [22], BenderWS21 [84], QinDCS20 [520], Polo-MejiaALB20 [511], WessenCS20 [643], AntuoriHHEN21 [21], Frimodig S19 [223], HoYCLLCLC18 [307], ShinBBHO18 [560], CauwelaertLS18 [142], TangLWSK18 [584], BaptisteB18 [46], TranVNB17 [609], NovaraNH16 [478], HechingH16 [292], WangMD15 [640], BurtLPS15 [125], BartakV15 [59], LimBTBB15 [395], LombardiBM15 [403], MelgarejoLS15 [11], DerrienPZ14 [181]... (Total: 82)
Concepts	job-shop	abs-2402-00459 [474], PrataAN23 [517], YuraszeckMCCR23 [661], abs-2306-05747 [587], JuvinHL23a [335], JuvinHHL23 [332], AfsarVPG23 [8], AbreuNP23 [169], Mehdizadeh-Somarin23 [435], Fatemi-AnarakiTFV23 [213], ZhuSZW23 [676], KimCMLLP23 [349], CzerniachowskaWZ23 [160], Bit-Monnot23 [96], NaderiRR23 [465], TasselGS23 [586], Teppan22 [589], NaderiBZ22a [461], OujanaAYB22 [494], LiFJZLL22 [391], ColT22 [161], MullerMKP22 [456], ZhangBB22 [668], abs-2211-14492 [576], YuraszeckMPV22 [660], GeitzGSSW22 [240], JuvinHL22 [333], Astrand21 [35], KovacsTKSG21 [365]... (Total: 133)	AbreuPNF23 [3], PenzDN23 [503], EfthymiouY23 [195], IsikYA23 [325], AlfieriGPS23 [15], NaderiBZ22 [462], EtminaniesfahaniGNMS22 [203], TouatBT22 [602], YunusogluY22 [658], AbreuN22 [168], LuoB22 [420], QinWSLS21 [519], ArmstrongGOS21 [26], KoehlerBFFHPSSS21 [352], Godet21a [248], Astrand21 [36], MejiaY20 [436], GroleazNS20 [266], SacramentoSP20 [536], ArkhipovBL19 [25], WikarekS19 [644], EscobetPQPRA19 [202], GokgurHO18 [252], German18 [242], MossigeGSMC17 [453], CappartS17 [130], Derrien15 [179], Kameugne14 [337], BonfiettiLM14 [111]... (Total: 55)	ForbesHJST24 [218], BonninMNE24 [114], Adelgren2023 [7], ShaikhK23 [557], PovedaAA23 [514], MarliereSPR23 [431], GokPTGO23 [275], YuraszeckMC23 [659], GuoZ23 [272], LacknerMMWW23 [378], JuvinHL23 [334], EmdeZD22 [200], HanenKP21 [281], Lemos21 [385], KlankeBYE21 [350], AntuoriHHEN21 [22], Zahout21 [662], GokGSTO20 [251], HauderBRPA20 [287], AntuoriHHEN20 [21], RoshanaeiBAUB20 [531], BenediktMH20 [86], WessenCS20 [643], Mercier-AubinGQ20 [442], WallaceY20 [637], NattafDYW19 [470], BogaerdtW19 [617], abs-1902-09244 [286], Tom19 [599]... (Total: 107)
Concepts	lateness	Groleaz21 [264], FahimiOQ18 [207], Fahimi16 [206], Dejemeppe16 [173], KoschB14 [357], Malapert11 [424], BartakSR10 [58], Geske05 [243], Baptiste02 [44], ArtiguesR00 [33], BlazewiczDP96 [126]	PrataAN23 [517], PohlAK22 [510], ZarandiASC20 [664], AntunesABD20 [20], ZhangW18 [670], HarjunkoskiMBC14 [283], MilanoW09 [446], AkkerDH07 [616], MilanoW06 [445], Sadykov04 [537]	LacknerMMWW23 [378], YunusogluY22 [658], NaderiBZ22 [462], GeitzGSSW22 [240], ColT22 [161], ZhangBB22 [668], LacknerMMWW21 [377], Godet21a [248], KoehlerBFFHPSSS21 [352], HanenKP21 [281], QinWSLS21 [519], Lunardi20 [418], Novas19 [479], ArkhipovBL19 [25], ParkUJR19 [501], AntunesABD18 [19], Tesch18 [593], GrimesH15 [261], BartakV15 [59], MenciaSV13 [439], MenciaSV12 [438], TerekhovDOB12 [590], EdisO11 [192], ChenGPSH10 [147], NovasH10 [480], WuBB09 [653], SadykovW06 [538], Bartak02 [54], JainM99 [326]

Type	Keyword	High	Medium	Low
Concepts	machine	abs-2402-00459 [474], BonninMNE24 [114], PrataAN23 [517], Fatemi-AnarakiTFV23 [213], PenzDN23 [503], YuraszeckMCCR23 [661], JuvinHL23a [335], ZhuSZW23 [676], AalianPG23 [1], AbreuPNF23 [3], JuvinHHL23 [332], abs-2312-13682 [505], LacknerMMWW23 [378], AlfieriGPS23 [15], AfsarVPG23 [8], KimCMLLP23 [349], IsikYA23 [325], CzerniachowskaWZ23 [160], AbreuNP23 [169], Adelgren2023 [7], NaderiRR23 [465], TasselGS23 [586], Mehdizadeh-Somarin23 [435], JuvinHL23 [334], GuoZ23 [272], PerezGSL23 [504], EfthymiouY23 [195], abs-2306-05747 [587], YuraszeckMC23 [659]... (Total: 262)	ForbesHJST24 [218], AkramNHRSA23 [13], GurPAE23 [273], Bit-Monnot23 [96], GokPTGO23 [275], OrnekOS20 [490], EtminaniesfahaniGNMS22 [203], LuoB22 [420], ElciOH22 [196], HillTV21 [306], KlankeBYE21 [350], Lemos21 [385], AbohashimaEG21 [2], Polo-MejiaALB20 [511], RoshanaeiBAUB20 [531], AntuoriHHEN20 [21], BehrensLM19 [76], GoldwaserS18 [254], BaptisteB18 [46], He0GLW18 [288], Ham18 [277], ShinBBHO18 [560], MusliuSS18 [460], FahimiOQ18 [207], GoldwaserS17 [253], CohenHB17 [155], KreterSS17 [367], Pralet17 [515], SchuttS16 [553]... (Total: 71)	MarliereSPR23 [431], ShaikhK23 [557], KameugneFND23 [340], MontemanniD23 [452], BoudreaultSLQ22 [118], PopovicCGNC22 [512], SubulanC22 [575], PohlAK22 [510], GeibingerMM21 [239], ArtiguesHQT21 [32], WallaceY20 [637], BarzegaranZP20 [61], Mercier-AubinGQ20 [442], WangB20 [638], ArkhipovBL19 [25], YounespourAKE19 [655], YangSS19 [654], NattafHKAL19 [471], BadicaBIL19 [40], NishikawaSTT19 [477], Tom19 [599], AntunesABD18 [19], KreterSSZ18 [368], HoYCLLCLC18 [307], PourDERB18 [513], Laborie18a [375], CauwelaertLS18 [142], TranVNB17a [610], KletzanderM17 [351]... (Total: 123)
Concepts	make to order			OujanaAYB22 [494], DavenportKRSH07 [166], Simonis07 [569]
Concepts	make to stock			HarjunkoskiMBC14 [283]
Concepts	make-span	PrataAN23 [517], Mehdizadeh-Somarin23 [435], AbreuNP23 [169], EfthymiouY23 [195], PovedaAA23 [514], AfsarVPG23 [8], JuvinHL23a [335], abs-2306-05747 [587], AalianPG23 [1], CzerniachowskaWZ23 [160], AbreuPNF23 [3], JuvinHHL23 [332], YuraszeckMC23 [659], ZhuSZW23 [676], IsikYA23 [325], JuvinHL23 [334], AlfieriGPS23 [15], abs-2305-19888 [300], NaderiRR23 [465], TasselGS23 [586], Bit-Monnot23 [96], LacknerMMWW23 [378], AbreuN22 [168], YunusogluY22 [658], ZhangBB22 [668], HeinzNVH22 [299], JuvinHL22 [333], GeitzGSSW22 [240], BoudreaultSLQ22 [118]... (Total: 197)	BonninMNE24 [114], KameugneFND23 [340], YuraszeckMCCR23 [661], abs-2312-13682 [505], Adelgren2023 [7], PerezGSL23 [504], PenzDN23 [503], MullerMKP22 [456], SvancaraB22 [579], ZhangJZL22 [667], abs-2211-14492 [576], YuraszeckMPV22 [660], OujanaAYB22 [494], LiFJZLL22 [391], PandeyS21a [497], FanXG21 [211], QinDCS20 [520], NattafDYW19 [470], AstrandJZ18 [37], Ham18a [278], YoungFS17 [656], RoshanaeiLAU17 [532], KreterSS17 [367], GingrasQ16 [246], BonfiettiZLM16 [113], HamC16 [280], KuB16 [369], SialaAH15 [563], DejemeppeCS15 [174]... (Total: 59)	ForbesHJST24 [218], GokPTGO23 [275], GuoZ23 [272], KimCMLLP23 [349], TardivoDFMP23 [585], Fatemi-AnarakiTFV23 [213], Teppan22 [589], CampeauG22 [129], JungblutK22 [331], PopovicCGNC22 [512], FetgoD22 [215], EmdeZD22 [200], NaderiBZ22 [462], KoehlerBFFHPSSS21 [352], HanenKP21 [281], HubnerGSV21 [322], Mercier-AubinGQ20 [442], TangB20 [583], NattafM20 [472], CauwelaertDS20 [143], SacramentoSP20 [536], MurinR19 [457], abs-1911-04766 [237], NishikawaSTT19 [477], NattafHKAL19 [471], BadicaBIL19 [40], Tom19 [599], GeibingerMM19 [238], Ham18 [277]... (Total: 104)
Concepts	manpower	NovaraNH16 [478]	LaborieRSV18 [376], Froger16 [224]	BourreauGGLT22 [119], BadicaBI20 [39], MokhtarzadehTNF20 [448], HauderBRPA20 [287], WikarekS19 [644], BaptisteB18 [46], MusliuSS18 [460], SchuttS16 [553], HechingH16 [292], GayHS15a [233], GaySS14 [234], HarjunkoskiMBC14 [283], Clercq12 [170], GuyonLPR12 [274], LombardiM12 [409], SimonisH11 [572], Menana11 [437], Vilim11 [628], NovasH10 [480], ChenGPSH10 [147], Simonis99 [568], NuijtenP98 [484], SimonisC95 [571], Simonis95a [566], Puget95 [518]
Concepts	multi-agent	SvancaraB22 [579], Zahout21 [662], ZarandiASC20 [664], BehrensLM19 [76], He0GLW18 [288], GombolayWS18 [256], HoeveGSL07 [619]	Lemos21 [385], MokhtarzadehTNF20 [448], abs-1901-07914 [77], TranVNB17 [609], LimHTB16 [394], BartakSR10 [58], BocewiczBB09 [101]	abs-2402-00459 [474], Mehdizadeh-Somarin23 [435], SquillaciPR23 [574], ZhuSZW23 [676], GokPTGO23 [275], Fatemi-AnarakiTFV23 [213], AbreuAPNM21 [167], ZhangYW21 [669], GokGSTO20 [251], WessenCS20 [643], MejiaY20 [436], WikarekS19 [644], BadicaBIL19 [40], ZhangW18 [670], HookerH17 [318], LimBTBB15 [395], KoschB14 [357], BartakS11 [57], Jans09 [328], GomesHS06 [257], AbrilSB05 [4], Beck99 [62], BeckF98 [67], Wallace96 [635], Pape94 [498]

Table 11: Works for Concepts of Type Concepts

Type	Keyword	High	Medium	Low
Concepts	multi-objective	AfsarVPG23 [8], IsikYA23 [325], FarsiTM22 [212], SubulanC22 [575], YunusogluY22 [658], HamPK21 [279], Lemos21 [385], ZarandiASC20 [664], Tom19 [599], TangLWSK18 [584], Dejemeppe16 [173], Froger16 [224], TopalogluO11 [600], ZeballosQH10 [666]	PrataAN23 [517], AbreuPNF23 [3], CzerniachowskaWZ23 [160], GurPAE23 [273], LacknerMMWW23 [378], AbreuN22 [168], LiFJZLL22 [391], NaderiBZ22a [461], OrnekOS20 [490], ZhangJZL22 [667], AbohashimaEG21 [2], AbreuAPNM21 [167], FanXG21 [211], QinWSLS21 [519], Zahout21 [662], ZhangYW21 [669], Lunardi20 [418], MejiaY20 [436], MengZRZL20 [440], ZouZ20 [679], EscobetPQPRA19 [202], YounespourAKE19 [655], CappartTSR18 [131], PourDERB18 [513], MenciaSV13 [439], QuirogaZH05 [522]	abs-2402-00459 [474], AlfieriGPS23 [15], GokPTGO23 [275], GuoZ23 [272], MarliereSPR23 [431], SquillaciPR23 [574], YuraszeckMCCR23 [661], BoudreaultSLQ22 [118], ColT22 [161], MullerMKP22 [456], OujanaAYB22 [494], TouatBT22 [602], abs-2211-14492 [576], ArmstrongGOS21 [26], Astrand21 [35], KoehlerBFFHPSSS21 [352], GroleazNS20a [265], HauderBRPA20 [287], Polo-MejiaALB20 [511], SacramentoSP20 [536], FrohnerTR19 [225], GeibingerMM19 [238], GurEA19 [682], Hooker19 [316], KucukY19 [372], Novas19 [479], abs-1902-09244 [286], abs-1911-04766 [237], AstrandJZ18 [37]... (Total: 58)
Concepts	net present value	ThiruvadyWGS14 [595], GuSS13 [268], GuSW12 [270], SchuttCSW12 [545]	CampeauG22 [129], HillTV21 [306], KelarevaTK13 [344]	abs-2402-00459 [474], EtminaniesfahaniGNMS22 [203], Astrand21 [35], AstrandJZ20 [38], ZarandiASC20 [664], LaborieRSV18 [376], HookerH17 [318], MossigeGSMC17 [453], SchuttS16 [553], SzerediS16 [580], SchnellH15 [543], BlomBPS14 [99], SchuttFS13 [547], Lombardi10 [402]
Concepts	no preempt			ColT22 [161], TouatBT22 [602], FanXG21 [211], Bedhief21 [74], Lunardi20 [418], MengZRZL20 [440], ParkUJR19 [501], NattafALR16 [469], TerekhovTDB14 [591], LombardiMRB10 [412], LiW08 [390], MonetteDD07 [449], BeckW07 [73], Baptiste02 [44], ArtiguesR00 [33]
Concepts	no-wait	PrataAN23 [517], Fatemi-AnarakiTFV23 [213], IsikYA23 [325], AlfieriGPS23 [15], NaderiRR23 [465], AbreuNP23 [169], HubnerGSV21 [322], VlkHT21 [633], ZarandiASC20 [664], Novas19 [479], GrimesH15 [261], GrimesH11 [260], GrimesH10 [259], AkkerDH07 [616]	AbreuN22 [168], AbreuAPNM21 [167], MengZRZL20 [440], MokhtarzadehTNF20 [448], MejiaY20 [436], Dejemeppe16 [173], Malapert11 [424]	AbreuPNF23 [3], MarliereSPR23 [431], YuraszeckMPV22 [660], BourreauGGLT22 [119], ArmstrongGOS22 [27], EmdeZD22 [200], LiFJZLL22 [391], FarsiTM22 [212], MullerMKP22 [456], NaderiBZ22 [462], Bedhief21 [74], HauderBRPA20 [287], abs-1902-09244 [286], RiahiNS018 [525], ZhangW18 [670], ArbaouiY18 [24], WangMD15 [640], NovasH12 [481], HermenierDL11 [304], NovasH10 [480], RodriguezS09 [530], Rodriguez07b [528], LammaMM97 [381], BrusoniCLMMT96 [124], BlazewiczDP96 [126]
Concepts	one-machine scheduling	MilanoW09 [446], MilanoW06 [445], BlazewiczDP96 [126]	ZhangBB22 [668], Schutt11 [544], Baptiste02 [44]	PenzDN23 [503], ColT22 [161], Astrand21 [35], FanXG21 [211], KoehlerBFFHPSSS21 [352], ZarandiASC20 [664], Hooker19 [316], HookerH17 [318], MelgarejoLS15 [11], BeniniLMR11 [90], SadykovW06 [538], ChuX05 [149], BeckW04 [71], ArtiguesBF04 [30], Sadykov04 [537], HookerO03 [317], JainM99 [326]
Concepts	online scheduling	TerekhovTDB14 [591]	Mehdizadeh-Somarin23 [435], Zahout21 [662], Groleaz21 [264]	PrataAN23 [517], MullerMKP22 [456], VlkHT21 [633], NishikawaSTT19 [477], TranPZLDB18 [607], HebrardHJMPV16 [290], LimHTB16 [394], ZhouGL15 [674], DoomsH08 [187], ElkhyariGJ02a [199]

Table 11: Works for Concepts of Type Concepts

Type	Keyword	High	Medium	Low
Concepts	open-shop	PrataAN23 [517], Bit-Monnot23 [96], AbreuPNF23 [3], AbreuNP23 [169], NaderiRR23 [465], YuraszeckMPV22 [660], AbreuN22 [168], AbreuAPNM21 [167], Groleaz21 [264], ZarandiASC20 [664], MejiaY20 [436], Lunardi20 [418], FahimiOQ18 [207], Fahimi16 [206], GrimesH15 [261], Siala15a [562], Siala15 [561], MalapertCGJLR13 [426], MalapertCGJLR12 [425], Malapert11 [424], GrimesHM09 [262], OhrimenkoSC09 [488], MonetteDD07 [449], Elkhyari03 [197], LorigeonBB02 [415], Baptiste02 [44], FocacciLN00 [216]	ZhuSZW23 [676], Godet21a [248], Astrand21 [35], SacramentoSP20 [536], MengZRZL20 [440], Dejemeppe16 [173], TerekhovDOB12 [590], Schutt11 [544], GrimesH10 [259], Vilim05 [625], Demassey03 [176], JainM99 [326]	BonninMNE24 [114], YuraszeckMCCR23 [661], YuraszeckMC23 [659], KimCMLLP23 [349], ShaikhK23 [557], AfsarVPG23 [8], NaderiBZ22 [462], EmdeZD22 [200], OujanaAYB22 [494], ColT22 [161], EtminaniesfahaniGNMS22 [203], Astrand0F21 [36], abs-2102-08778 [156], AstrandJZ20 [38], ParkUJR19 [501], GombolayWS18 [256], HookerH17 [318], SialaAH15 [563], Derrien15 [179], BonfiettiLM14 [111], AlesioNBG14 [182], BillautHL12 [95], GrimesH11 [260], SchuttFSW11 [550], ChenGPSH10 [147], BartakSR10 [58], SchuttFSW09 [548], ThiruvadyBME09 [594], LiW08 [390]... (Total: 37)
Concepts	order	PrataAN23 [517], BonninMNE24 [114], abs-2402-00459 [474], GokPTGO23 [275], ZhuSZW23 [676], GuoZ23 [272], EfthymiouY23 [195], AbreuNP23 [169], Fatemi-AnarakiTFV23 [213], Adelgren2023 [7], TasselGS23 [586], abs-2306-05747 [587], JuvinHL23 [334], LacknerMMWW23 [378], PerezGSL23 [504], IsikYA23 [325], PenzDN23 [503], PovedaAA23 [514], JuvinHL23a [335], AlfieriGPS23 [15], abs-2312-13682 [505], CzerniachowskaWZ23 [160], AalianPG23 [1], Bit-Monnot23 [96], AbreuPNF23 [3], WangB23 [639], KameugneFND23 [340], JuvinHHL23 [332], SquillaciPR23 [574]... (Total: 406)	ForbesHJST24 [218], MontemanniD23a [451], NaderiRR23 [465], TardivoDFMP23 [585], YuraszeckMC23 [659], GurPAE23 [273], ShaikhK23 [557], abs-2305-19888 [300], SvancaraB22 [579], ZhangBB22 [668], ArmstrongGOS22 [27], WinterMMW22 [645], ElciOH22 [196], OrnekOS20 [490], TouatBT22 [602], OuelletQ22 [493], HeinzNVH22 [299], JungblutK22 [331], BenderWS21 [84], GeibingerMM21 [239], HillTV21 [306], abs-2102-08778 [156], QinDCS20 [520], WallaceY20 [637], AntunesABD20 [20], ZouZ20 [679], TangB20 [583], GokGSTO20 [251], FrohnerTR19 [225]... (Total: 112)	Mehdizadeh-Somarin23 [435], MontemanniD23 [452], AkramNHRSA23 [13], JuvinHL22 [333], NaderiBZ22a [461], ZhangJZL22 [667], ZhangYW21 [669], AbohashimaEG21 [2], MokhtarzadehTNF20 [448], RoshanaeiBAUB20 [531], abs-1902-01193 [14], GalleguillosKSB19 [227], KucukY19 [372], ArbaouiY18 [24], BenediktSMVH18 [87], He0GLW18 [288], TranVNB17a [610], Hooker17 [315], HechingH16 [292], BridiLBBM16 [122], CireCH16 [151], Bonfietti16 [106], SzerediS16 [580], HurleyOS16 [323], Derrien15 [179], GayHS15a [233], ThiruvadyWGS14 [595], DoulabiRP14 [190], Kameugne14 [337]... (Total: 65)
Concepts	order scheduling	TerekhovDOB12 [590]	PrataAN23 [517], AbreuPNF23 [3]	AbreuAPNM21 [167], QinWSLS21 [519]
Concepts	periodic	SquillaciPR23 [574], Groleaz21 [264], Lemos21 [385], BonfiettiZLM16 [113], Fahimi16 [206], AlesioNBG14 [182], BonfiettiLBM14 [109], TerekhovTDB14 [591], TranTDB13 [608], BonfiettiLM13 [110], SimoninAHL12 [564], BonfiettiLBM12 [108], LombardiBMB11 [404], Lombardi10 [402], SchildW00 [542], KorbaaYG99 [355], PembertonG98 [502]	Mehdizadeh-Somarin23 [435], TouatBT22 [602], Astrand21 [35], VlkHT21 [633], Bonfietti16 [106], BajestaniB15 [43], HarjunkoskiMBC14 [283], BonfiettiLBM11 [107], Davenport10 [165], NovasH10 [480], BocewiczBB09 [101], BeniniLMR08 [89]	CzerniachowskaWZ23 [160], Adelgren2023 [7], PenzDN23 [503], AbreuPNF23 [3], AkramNHRSA23 [13], abs-2306-05747 [587], TasselGS23 [586], FarsiTM22 [212], OrnekOS20 [490], PopovicCGNC22 [512], Godet21a [248], AbreuAPNM21 [167], AntunesABD20 [20], AntuoriHHEN20 [21], AstrandJZ20 [38], ZarandiASC20 [664], Polo-MejiaALB20 [511], Caballero19 [127], EscobetPQPRA19 [202], NattafDYW19 [470], CappartTSR18 [131], AntunesABD18 [19], LaborieRSV18 [376], TranPZLDB18 [607], GombolayWS18 [256], KreterSSZ18 [368], AstrandJZ18 [37], KreterSS17 [367], BridiLBBM16 [122]... (Total: 61)
Concepts	planned maintenance		Malapert11 [424], Davenport10 [165]	TouatBT22 [602], Astrand21 [35], KovacsTKSG21 [365], AntunesABD20 [20], BajestaniB15 [43], AkkerDH07 [616]

Type	Keyword	High	Medium	Low
Concepts	precedence	BonninMNE24 [114], abs-2402-00459 [474], PovedaAA23 [514], YuraszeckMCCR23 [661], MarliereSPR23 [431], AlfieriGPS23 [15], JuvinHHL23 [332], NaderiRR23 [465], ZhuSZW23 [676], IsikYA23 [325], FetgoD22 [215], PohlAK22 [510], CampeauG22 [129], YunusogluY22 [658], ZhangBB22 [668], EtminaniesfahaniGNMS22 [203], NaderiBZ22a [461], BoudreaultSLQ22 [118], GeibingerMM21 [239], HanenKP21 [281], Astrand0F21 [36], Astrand21 [35], HillTV21 [306], KoehlerBFFHPSSS21 [352], FanXG21 [211], HubnerGSV21 [322], ZhangYW21 [669], Godet21a [248], HamPK21 [279]... (Total: 177)	GokPTGO23 [275], KameugneFND23 [340], JuvinHL23a [335], TardivoDFMP23 [585], Bit-Monnot23 [96], OujanaAYB22 [494], SubulanC22 [575], ColT22 [161], VlkHT21 [633], AntuoriHHEN21 [22], Zahout21 [662], WessenCS20 [643], MokhtarzadehTNF20 [448], GokGSTO20 [251], QinDCS20 [520], GeibingerMM19 [238], Novas19 [479], abs-1911-04766 [237], BogaerdtW19 [617], MurinR19 [457], ColT19 [157], Ham18 [277], KameugneFGOQ18 [339], TanT18 [582], MossigeGSMC17 [453], Madi-WambaLOBM17 [422], Madi-WambaB16 [421], KuB16 [369], AmadiniGM16 [17]... (Total: 80)	PrataAN23 [517], JuvinHL23 [334], AfsarVPG23 [8], Mehdizadeh-Somarin23 [435], abs-2306-05747 [587], YuraszeckMC23 [659], KimCMLLP23 [349], TasselGS23 [586], abs-2305-19888 [300], MullerMKP22 [456], JuvinHL22 [333], EmdeZD22 [200], BourreauGGLT22 [119], ZhangJZL22 [667], GeitzGSSW22 [240], TouatBT22 [602], WinterMMW22 [645], abs-2211-14492 [576], HeinzNVH22 [299], Lemos21 [385], KovacsTKSG21 [365], PandeyS21a [497], AbreuAPNM21 [167], AntunesABD20 [20], GroleazNS20a [265], TangB20 [583], OuelletQ18 [492], DemirovicS18 [178], BaptisteB18 [46]... (Total: 106)
Concepts	preempt	BonninMNE24 [114], JuvinHL23a [335], JuvinHHL23 [332], PovedaAA23 [514], SubulanC22 [575], JuvinHL22 [333], Groleaz21 [264], HanenKP21 [281], ArtiguesHQT21 [32], Godet21a [248], ZarandiASC20 [664], Polo-MejiaALB20 [511], NattafHKAL19 [471], BaptisteB18 [46], FahimiOQ18 [207], GokgurHO18 [252], Dejemeppe16 [173], ZarandiKS16 [663], Fahimi16 [206], NattafALR16 [469], EvenSH15 [204], EvenSH15a [205], AlesioNBG14 [182], LombardiMB13 [411], MenciaSV12 [438], LombardiM12 [409], BeldiceanuCDP11 [80], KovacsB11 [360], Schutt11 [544]... (Total: 41)	PrataAN23 [517], Adelgren2023 [7], abs-2305-19888 [300], AbreuPNF23 [3], FetgoD22 [215], HeinzNVH22 [299], OuelletQ22 [493], Astrand21 [35], Zahout21 [662], SacramentoSP20 [536], Mercier-AubinGQ20 [442], Lunardi20 [418], LunardiBLRV20 [417], Caballero19 [127], ArkhipovBL19 [25], GombolayWS18 [256], YoungFS17 [656], OrnekO16 [489], OzturkTHO15 [681], SchnellH15 [543], NattafAL15 [467], SimoninAHL15 [565], TerekhovTDB14 [591], OzturkTHO13 [496], MenciaSV13 [439], BajestaniB13 [42], OzturkTHO12 [680], SimoninAHL12 [564], GuyonLPR12 [274]... (Total: 42)	Mehdizadeh-Somarin23 [435], AalianPG23 [1], KameugneFND23 [340], abs-2306-05747 [587], PenzDN23 [503], NaderiRR23 [465], TasselGS23 [586], TardivoDFMP23 [585], YuraszeckMC23 [659], YuraszeckMCCR23 [661], AkramNHRSA23 [13], AbreuNP23 [169], ZhuSZW23 [676], IsikYA23 [325], AfsarVPG23 [8], ZhangBB22 [668], Teppan22 [589], EtminaniesfahaniGNMS22 [203], ColT22 [161], MullerMKP22 [456], YunusogluY22 [658], JungblutK22 [331], AbreuN22 [168], NaderiBZ22a [461], TouatBT22 [602], GeitzGSSW22 [240], BoudreaultSLQ22 [118], OujanaAYB22 [494], Bedhief21 [74]... (Total: 153)
Concepts	preemptive	BonninMNE24 [114], JuvinHL23a [335], JuvinHHL23 [332], PovedaAA23 [514], JuvinHL22 [333], ArtiguesHQT21 [32], HanenKP21 [281], Godet21a [248], ZarandiASC20 [664], Polo-MejiaALB20 [511], NattafHKAL19 [471], GokgurHO18 [252], BaptisteB18 [46], Fahimi16 [206], Dejemeppe16 [173], EvenSH15 [204], EvenSH15a [205], AlesioNBG14 [182], LombardiMB13 [411], LombardiM12 [409], MenciaSV12 [438], Schutt11 [544], KovacsB11 [360], BeldiceanuCDP11 [80], Lombardi10 [402], BartakSR10 [58], MonetteDD07 [449], KovacsB07 [358], Wolf05 [647]... (Total: 36)	PrataAN23 [517], AbreuPNF23 [3], Adelgren2023 [7], Groleaz21 [264], Mercier-AubinGQ20 [442], SacramentoSP20 [536], ArkhipovBL19 [25], Caballero19 [127], FahimiOQ18 [207], YoungFS17 [656], NattafALR16 [469], ZarandiKS16 [663], OrnekO16 [489], NattafAL15 [467], OzturkTHO15 [681], BajestaniB13 [42], MenciaSV13 [439], OzturkTHO13 [496], OzturkTHO12 [680], Malapert11 [424], SchuttFSW11 [550], LombardiMRB10 [412], ChenGPSH10 [147], Wolf09 [650], Laborie09 [374], SchuttFSW09 [548], KovacsB08 [359], ArtiouchineB05 [34], SourdN00 [573]... (Total: 31)	Mehdizadeh-Somarin23 [435], AalianPG23 [1], abs-2305-19888 [300], PenzDN23 [503], YuraszeckMC23 [659], NaderiRR23 [465], ColT22 [161], HeinzNVH22 [299], MullerMKP22 [456], GeitzGSSW22 [240], AbreuN22 [168], SubulanC22 [575], EtminaniesfahaniGNMS22 [203], NaderiBZ22a [461], AbreuAPNM21 [167], ArmstrongGOS21 [26], QinWSLS21 [519], ZhangYW21 [669], HillTV21 [306], HubnerGSV21 [322], Zahout21 [662], KovacsTKSG21 [365], BenderWS21 [84], GroleazNS20 [266], BenediktMH20 [86], MejiaY20 [436], CauwelaertDS20 [143], GroleazNS20a [265], YangSS19 [654]... (Total: 121)
Concepts	producer/consumer	SchuttS16 [553], PoderBS04 [509], Kumar03 [371], Beck99 [62], SimonisC95 [571]	HermenierDL11 [304], BeldiceanuC02 [79], Simonis99 [568], Simonis95a [566]	GeitzGSSW22 [240], KlankeBYE21 [350], CappartTSR18 [131], BlomPS16 [100], LombardiM12a [408], Wolf11 [648], SimonisH11 [572], LombardiMRB10 [412], ChenGPSH10 [147], PoderB08 [508], Simonis07 [569], Timpe02 [598], SimonisCK00 [570], Simonis95 [567]

Table 11: Works for Concepts of Type Concepts

Type	Keyword	High	Medium	Low
Concepts	re-scheduling	Fatemi-AnarakiTFV23 [213], MarliereSPR23 [431], Astrand21 [35], Lemos21 [385], HamPK21 [279], Groleaz21 [264], BarzegaranZP20 [61], ZarandiASC20 [664], ZhangW18 [670], CappartS17 [130], Madi-WambaLOBM17 [422], Froger16 [224], BartakV15 [59], HarjunkoskiMBC14 [283], GrimesIOS14 [263], BajestaniB13 [42], TranTDB13 [608], RendlPHPR12 [524], LombardiM12 [409], IfrimOS12 [324], NovasH10 [480], BidotVLB09 [94], Laborie03 [373], Baptiste02 [44], MartinPY01 [432], ArtiguesR00 [33]	Mehdizadeh-Somarin23 [435], NaderiBZ22a [461], Zahout21 [662], KovacsTKSG21 [365], AstrandJZ20 [38], AntunesABD20 [20], RoshanaeiBAUB20 [531], GombolayWS18 [256], TranPZLDB18 [607], HoYCLLCLC18 [307], AntunesABD18 [19], HurleyOS16 [323], LimHTB16 [394], LimBTBB15 [395], CobanH11 [154], Lombardi10 [402], CobanH10 [153], Acuna-AgostMFG09 [5], Elkhyari03 [197], Beck99 [62]	PrataAN23 [517], ForbesHJST24 [218], abs-2306-05747 [587], abs-2305-19888 [300], ShaikhK23 [557], GurPAE23 [273], NaderiRR23 [465], PerezGSL23 [504], abs-2312-13682 [505], GokPTGO23 [275], EfthymiouY23 [195], Adelgren2023 [7], TasselGS23 [586], JuvinHL23a [335], ZhuSZW23 [676], BourreauGGLT22 [119], HeinzNVH22 [299], ArmstrongGOS22 [27], LuoB22 [420], PohlAK22 [510], FarsiTM22 [212], YunusogluY22 [658], JuvinHL22 [333], YuraszeckMPV22 [660], ZhangYW21 [669], KlankeBYE21 [350], PandeyS21a [497], BenediktMH20 [86], MejiaY20 [436]... (Total: 91)
Concepts	reactive scheduling	NovasH10 [480]	Groleaz21 [264], ZarandiASC20 [664], BartakV15 [59], HarjunkoskiMBC14 [283]	Mehdizadeh-Somarin23 [435], FanXG21 [211], HubnerGSV21 [322], Lunardi20 [418], EscobetPQPRA19 [202], Fahimi16 [206], Froger16 [224], BonfiettiLM14 [111], NovasH14 [482], BajestaniB13 [42], BillautHL12 [95], LombardiM12 [409], NovasH12 [481], LopesCSM10 [413], BidotVLB09 [94], MouraSCL08a [454], BeckW07 [73], Elkhyari03 [197], Baptiste02 [44], BeckF00 [68], SakkoutW00 [539], NuijtenP98 [484], PapaB98 [500], Wallace96 [635]
Concepts	release-date	BonninMNE24 [114], YunusogluY22 [658], JuvinHL22 [333], YuraszeckMPV22 [660], WinterMMW22 [645], EmdeZD22 [200], Groleaz21 [264], HanenKP21 [281], Bedhief21 [74], Polo-MejiaALB20 [511], EscobetPQPRA19 [202], Tesch18 [593], KameugneFSN14 [342], LimtanyakulS12 [397], SerraNM12 [556], TerekhovDOB12 [590], KameugneFSN11 [341], KovacsB11 [360], Lombardi10 [402], BartakSR10 [58], LombardiM10a [406], abs-0907-0939 [507], MercierH08 [441], KovacsB07 [358], Hooker07 [313], AkkerDH07 [616], SadykovW06 [538], ArtiouchineB05 [34], Hooker05 [310]... (Total: 36)	PrataAN23 [517], LacknerMMWW23 [378], JuvinHL23a [335], LacknerMMWW21 [377], Godet21a [248], ArtiguesHQT21 [32], GroleazNS20 [266], GroleazNS20a [265], AntuoriHHEN20 [21], ZarandiASC20 [664], GeibingerMM19 [238], ArkhipovBL19 [25], abs-1911-04766 [237], Dejemeppe16 [173], HeinzSB13 [298], KelbelH11 [345], MilanoW09 [446], Laborie09 [374], Limtanyakul07 [396], Simonis07 [569], MilanoW06 [445], Hooker06 [312], Hooker05a [311], WuBB05 [652], Sadykov04 [537], HarjunkoskiG02 [282], JainG01 [327], TorresL00 [601], SourdN00 [573]... (Total: 31)	ForbesHJST24 [218], PovedaAA23 [514], PenzDN23 [503], IsikYA23 [325], Adelgren2023 [7], YuraszeckMC23 [659], PohlAK22 [510], TouatBT22 [602], GeibingerMM21 [239], HillTV21 [306], AbreuAPNM21 [167], Zahout21 [662], Astrand21 [35], AntuoriHHEN21 [22], ZhangYW21 [669], KovacsTKSG21 [365], GodetLHS20 [249], Lunardi20 [418], MejiaY20 [436], Hooker19 [316], Novas19 [479], Caballero19 [127], NattafHKAL19 [471], abs-1902-09244 [286], LaborieRSV18 [376], TanT18 [582], KreterSSZ18 [368], Laborie18a [375], GokgurHO18 [252]... (Total: 87)
Concepts	resource	ForbesHJST24 [218], BonninMNE24 [114], PrataAN23 [517], abs-2402-00459 [474], Fatemi-AnarakiTFV23 [213], JuvinHHL23 [332], PovedaAA23 [514], ShaikhK23 [557], GuoZ23 [272], NaderiRR23 [465], GokPTGO23 [275], WangB23 [639], KameugneFND23 [340], MarliereSPR23 [431], YuraszeckMCCR23 [661], CzerniachowskaWZ23 [160], abs-2305-19888 [300], AlfieriGPS23 [15], JuvinHL23a [335], AalianPG23 [1], TardivoDFMP23 [585], GurPAE23 [273], AbreuPNF23 [3], HeinzNVH22 [299], AbreuN22 [168], OrnekOS20 [490], TouatBT22 [602], YunusogluY22 [658], SubulanC22 [575]... (Total: 406)	Caballero23 [128], abs-2312-13682 [505], AfsarVPG23 [8], Adelgren2023 [7], TasselGS23 [586], AbreuNP23 [169], PerezGSL23 [504], IsikYA23 [325], abs-2306-05747 [587], Bit-Monnot23 [96], ElciOH22 [196], PohlAK22 [510], MullerMKP22 [456], SvancaraB22 [579], abs-2211-14492 [576], YuraszeckMPV22 [660], WinterMMW22 [645], KlankeBYE21 [350], Astrand0F21 [36], TangB20 [583], LunardiBLRV20 [417], WallaceY20 [637], MokhtarzadehTNF20 [448], FrimodigS19 [223], abs-1902-01193 [14], ParkUJR19 [501], GedikKEK18 [235], BenediktSMVH18 [87], HoYCLLCLC18 [307]... (Total: 64)	AkramNHRSA23 [13], PenzDN23 [503], MontemanniD23 [452], SquillaciPR23 [574], ZhuSZW23 [676], ZhangJZL22 [667], EmdeZD22 [200], Teppan22 [589], JungblutK22 [331], PopovicCGNC22 [512], ArmstrongGOS22 [27], HamPK21 [279], AbreuAPNM21 [167], AbohashimaEG21 [2], KoehlerBFFHPSSS21 [352], abs-2102-08778 [156], AntuoriHHEN21 [22], ArmstrongGOS21 [26], FanXG21 [211], MejiaY20 [436], BarzegaranZP20 [61], ThomasKS20 [596], NattafM20 [472], BadicaBIL19 [40], HoundjiSW19 [320], KucukY19 [372], NattafDYW19 [470], ColT19 [157], ZhangW18 [670]... (Total: 69)

Table 11: Works for Concepts of Type Concepts

Type	Keyword	High	Medium	Low
Concepts	scheduling	PrataAN23 [517], ForbesHJST24 [218], BonninMNE24 [114], abs-2402-00459 [474], AbreuNP23 [169], ZhuSZW23 [676], IsikYA23 [325], AalianPG23 [1], AbreuPNF23 [3], abs-2306-05747 [587], JuvinHHL23 [332], TardivoDFMP23 [585], YuraszeckMC23 [659], Fatemi-AnarakiTFV23 [213], Mehdizadeh-Somarin23 [435], KimCMLLP23 [349], AkramNHRSA23 [13], LacknerMMWW23 [378], GurPAE23 [273], AlfieriGPS23 [15], CzerniachowskaWZ23 [160], WangB23 [639], JuvinHL23 [334], NaderiRR23 [465], PenzDN23 [503], TasselGS23 [586], Bit-Monnot23 [96], abs-2305-19888 [300], abs-2312-13682 [505]... (Total: 573)	HebrardALLCMR22 [289], Kameugne15 [338], GayHS15 [232], BessiereHMQW14 [93], HoundjiSWD14 [321], LetortCB13 [388], LetortBC12 [387], ClercqPBJ11 [152], ChapadosJR11 [146], Baptiste09 [45], abs-0907-0939 [507], Acuna-AgostMFG09 [5], GomesHS06 [257], DilkinaDH05 [183], MoffittPP05 [447], WuBB05 [652], HebrardTW05 [291], ValleMGT03 [615], Vilim03 [623], HookerY02 [319], Vilim02 [622], RodriguezDG02 [529], FrostD98 [226], CestaOS98 [145], Touraivane95 [603]	Hooker17 [315], RossiTHP07 [534], AbrilSB05 [4], VanczaM01 [620]
Concepts	sequence dependent setup	Groleaz21 [264], GedikKEK18 [235], TranAB16 [604], HamC16 [280], TranB12 [605], Wolf11 [648], FocacciLN00 [216]	IsikYA23 [325], YuraszeckMPV22 [660], GeitzGSSW22 [240], MengZRZL20 [440], CauwelaertDS20 [143], ZarandiASC20 [664], RiahiNS018 [525], Dejemeppe16 [173], GrimesH15 [261], LombardiM12 [409], Simonis07 [569], ArtiguesBF04 [30]	PrataAN23 [517], GuoZ23 [272], abs-2305-19888 [300], NaderiRR23 [465], Adelgren2023 [7], YunusogluY22 [658], PohlAK22 [510], NaderiBZ22a [461], HeinzNVH22 [299], OujanaAYB22 [494], HamPK21 [279], ArmstrongGOS21 [26], Bedhief21 [74], Astrand21 [35], Mercier-AubinGQ20 [442], MejiaY20 [436], RoshanaeiBAUB20 [531], MalapertN19 [427], Novas19 [479], KucukY19 [372], Hooker19 [316], ArbaouiY18 [24], LaborieRSV18 [376], FahimiOQ18 [207], Ham18 [277], RoshanaeiLAU17 [532], Pralet17 [515], HookerH17 [318], Fahimi16 [206]... (Total: 47)
Concepts	setup-time	PrataAN23 [517], IsikYA23 [325], AbreuPNF23 [3], LacknerMMWW23 [378], abs-2305-19888 [300], AbreuNP23 [169], NaderiRR23 [465], GeitzGSSW22 [240], NaderiBZ22 [462], WinterMMW22 [645], OujanaAYB22 [494], YunusogluY22 [658], YuraszeckMPV22 [660], PohlAK22 [510], HeinzNVH22 [299], AbreuN22 [168], ColT22 [161], Groleaz21 [264], Astrand21 [35], LacknerMMWW21 [377], Lunardi20 [418], NattafM20 [472], QinDCS20 [520], GroleazNS20a [265], MejiaY20 [436], GroleazNS20 [266], Mercier-AubinGQ20 [442], LunardiBLRV20 [417], CauwelaertDS20 [143]... (Total: 61)	Adelgren2023 [7], ZhuSZW23 [676], AlfieriGPS23 [15], CzerniachowskaWZ23 [160], PenzDN23 [503], KimCMLLP23 [349], GokPTGO23 [275], LiFJZLL22 [391], Bedhief21 [74], FanXG21 [211], AbreuAPNM21 [167], ArmstrongGOS21 [26], AstrandJZ20 [38], LaborieRSV18 [376], HookerH17 [318], NovaraNH16 [478], OrnekO16 [489], HamC16 [280], GaySS14 [234], KelarevaTK13 [344], OzturkTHO13 [496], Wolf11 [648], Malapert11 [424], ThiruvadyBME09 [594], BeniniBGM06 [88], HarjunkoskiG02 [282], Timpe02 [598], Vilim02 [622]	EfthymiouY23 [195], YuraszeckMCCR23 [661], JuvinHL23 [334], AfsarVPG23 [8], JuvinHL23a [335], Mehdizadeh-Somarin23 [435], GuoZ23 [272], Fatemi-AnarakiTFV23 [213], JuvinHHL23 [332], JuvinHL22 [333], abs-2211-14492 [576], ZhangJZL22 [667], MullerMKP22 [456], Teppan22 [589], NaderiBZ22a [461], ZhangYW21 [669], AbohashimaEG21 [2], HamPK21 [279], BenderWS21 [84], Polo-MejiaALB20 [511], HauderBRPA20 [287], MokhtarzadehTNF20 [448], GokGSTO20 [251], GodetLHS20 [249], RoshanaeiBAUB20 [531], Caballero19 [127], abs-1902-09244 [286], WikarekS19 [644], BehrensLM19 [76]... (Total: 82)
Concepts	single-machine scheduling	PenzDN23 [503], TouatBT22 [602], ZarandiASC20 [664], BajestaniB15 [43]	PrataAN23 [517], AlfieriGPS23 [15], Groleaz21 [264], BenediktMH20 [86], BogaerdtW19 [617], TerekhovDOB12 [590], KovacsB11 [360], WuBB09 [653], JainM99 [326]	BonninMNE24 [114], Fatemi-AnarakiTFV23 [213], Mehdizadeh-Somarin23 [435], PohlAK22 [510], ZhangJZL22 [667], ElciOH22 [196], EmdeZD22 [200], KoehlerBFFHPSSS21 [352], HamPK21 [279], HillTV21 [306], QinWSLS21 [519], PandeyS21a [497], NattafDYW19 [470], NattafHKAL19 [471], Tom19 [599], Hooker19 [316], MalapertN19 [427], BenediktSMVH18 [87], TanT18 [582], Tesch18 [593], GomesM17 [258], TranWDRFOVB16 [611], ZarandiKS16 [663], TranAB16 [604], DoulabiRP16 [191], BurtLPS15 [125], BajestaniB13 [42], GuSS13 [268], TranB12 [605]... (Total: 44)
Concepts	single-stage scheduling		HarjunkoskiG02 [282]	TerekhovDOB12 [590]

Type	Keyword	High	Medium	Low
Concepts	stochastic	ForbesHJST24 [218], AfsarVPG23 [8], GurPAE23 [273], GuoZ23 [272], GokPTGO23 [275], PenzDN23 [503], NaderiBZ22 [462], SubulanC22 [575], ElciOH22 [196], Astrand21 [35], Groleaz21 [264], AntuoriHHEN20 [21], ZarandiASC20 [664], RoshanaeiBAUB20 [531], Hooker19 [316], TranPZLDB18 [607], ShinBBHO18 [560], Froger16 [224], LombardiBM15 [403], BonfiettiLM14 [111], TerekhovTDB14 [591], HarjunkoskiMBC14 [283], BajestaniB13 [42], LombardiMB13 [411], SchausHMCMD11 [541], Lombardi10 [402], LombardiMRB10 [412], LombardiM10a [406], ThiruvadyBME09 [594]... (Total: 37)	YuraszeckMC23 [659], OrnekOS20 [490], YuraszeckMPV22 [660], FarsiTM22 [212], AntuoriHHEN21 [22], HubnerGSV21 [322], AstrandJZ20 [38], SacramentoSP20 [536], Lunardi20 [418], FrimodigS19 [223], GurEA19 [682], ParkUJR19 [501], LaborieRSV18 [376], ZhangW18 [670], RoshanaeiLAU17 [532], HookerH17 [318], DoulabiRP16 [191], LimHTB16 [394], BajestaniB15 [43], TranTDB13 [608], LombardiM12a [408], CobanH11 [154], LombardiM10 [407], WuBB09 [653], DilkinaDH05 [183], BeckW04 [71], JainM99 [326]	PrataAN23 [517], AlfieriGPS23 [15], JuvinHL23a [335], AbreuPNF23 [3], Mehdizadeh-Somarin23 [435], AbreuNP23 [169], JuvinHL23 [334], NaderiBZ22a [461], AbreuN22 [168], CampeauG22 [129], ZhangJZL22 [667], PopovicCGNC22 [512], EmdeZD22 [200], LiFJZLL22 [391], EtminaniesfahaniGNMS22 [203], MullerMKP22 [456], PohlAK22 [510], AbohashimaEG21 [2], FanXG21 [211], VlkHT21 [633], AbreuAPNM21 [167], Lemos21 [385], GokGSTO20 [251], HauderBRPA20 [287], BadicaBI20 [39], AntunesABD20 [20], ZouZ20 [679], NattafDYW19 [470], abs-1902-01193 [14]... (Total: 86)
Concepts	stock level	LopesCSM10 [413], SimonisC95 [571]	German18 [242], RossiTHP07 [534], Timpe02 [598], Simonis99 [568]	KhemmoudjPB06 [348], SimonisCK00 [570], Beck99 [62], Simonis95a [566]
Concepts	sustainability			AbreuPNF23 [3], CzerniachowskaWZ23 [160], Mehdizadeh-Somarin23 [435], MontemanniD23 [452], MontemanniD23a [451], PenzDN23 [503], MullerMKP22 [456], PopovicCGNC22 [512], BenediktMH20 [86], HoYCLLCLC18 [307], BridiBLMB16 [121], Froger16 [224], Madi-WambaB16 [421], GrimesIOS14 [263], IfrimOS12 [324]
Concepts	tardiness	PrataAN23 [517], NaderiRR23 [465], IsikYA23 [325], GokPTGO23 [275], KimCMLLP23 [349], LacknerMMWW23 [378], AlfieriGPS23 [15], AbreuPNF23 [3], WinterMMW22 [645], YunusogluY22 [658], OujanaAYB22 [494], NaderiBZ22 [462], PohlAK22 [510], TouatBT22 [602], AbreuN22 [168], abs-2211-14492 [576], Groleaz21 [264], FanXG21 [211], LacknerMMWW21 [377], AntuoriHHEN21 [22], ZarandiASC20 [664], HauderBRPA20 [287], GroleazNS20a [265], Mercier-AubinGQ20 [442], MengZRZL20 [440], TangB20 [583], AntuoriHHEN20 [21], ParkUJR19 [501], abs-1902-09244 [286]... (Total: 63)	abs-2402-00459 [474], AbreuNP23 [169], PenzDN23 [503], SubulanC22 [575], FarsiTM22 [212], EmdeZD22 [200], ElciOH22 [196], ColT22 [161], KovacsTKSG21 [365], AbreuAPNM21 [167], GroleazNS20 [266], GokGSTO20 [251], Lunardi20 [418], GokgurHO18 [252], GedikKEK18 [235], Hooker17 [315], CireCH16 [151], TranAB16 [604], ThiruvadyWGS14 [595], TerekhovTDB14 [591], HarjunkoskiMBC14 [283], BajestaniB13 [42], Malapert11 [424], NovasH10 [480], BartakSR10 [58], Beck06 [63], QuirogaZH05 [522], GodardLN05 [247], Hooker05 [310], BeckPS03 [69]	Mehdizadeh-Somarin23 [435], JuvinHL23 [334], TasselGS23 [586], abs-2306-05747 [587], LiFJZLL22 [391], EtminaniesfahaniGNMS22 [203], NaderiBZ22a [461], ZhangJZL22 [667], VlkHT21 [633], KoehlerBFFHPSSS21 [352], HanenKP21 [281], HamPK21 [279], GeibingerMM21 [239], Astrand21 [35], QinWSLS21 [519], HubnerGSV21 [322], Bedhief21 [74], QinDCS20 [520], MejiaY20 [436], LunardiBLRV20 [417], Polo-MejiaALB20 [511], Tom19 [599], Novas19 [479], RiahiNS018 [525], ZhangW18 [670], KreterSSZ18 [368], Ham18a [278], RoshanaeiLAU17 [532], HookerH17 [318]... (Total: 75)
Concepts	task	PrataAN23 [517], ForbesHJST24 [218], BonninMNE24 [114], abs-2402-00459 [474], JuvinHHL23 [332], WangB23 [639], YuraszeckMCCR23 [661], PovedaAA23 [514], AfsarVPG23 [8], KameugneFND23 [340], GokPTGO23 [275], AkramNHRSA23 [13], JuvinHL23 [334], CzerniachowskaWZ23 [160], Fatemi-AnarakiTFV23 [213], Adelgren2023 [7], abs-2305-19888 [300], NaderiBZ22a [461], LiFJZLL22 [391], CampeauG22 [129], OuelletQ22 [493], GeitzGSSW22 [240], HeinzNVH22 [299], ColT22 [161], SubulanC22 [575], FetgoD22 [215], JuvinHL22 [333], abs-2211-14492 [576], ElciOH22 [196]... (Total: 273)	JuvinHL23a [335], MontemanniD23a [451], Bit-Monnot23 [96], IsikYA23 [325], MontemanniD23 [452], SquillaciPR23 [574], LacknerMMWW23 [378], ShaikhK23 [557], WinterMMW22 [645], FarsiTM22 [212], OujanaAYB22 [494], YuraszeckMPV22 [660], PopovicCGNC22 [512], MullerMKP22 [456], AbreuN22 [168], SvancaraB22 [579], HubnerGSV21 [322], BenderWS21 [84], GeibingerMM21 [239], ZouZ20 [679], Polo-MejiaALB20 [511], AntuoriHHEN20 [21], BadicaBI20 [39], BarzegaranZP20 [61], WallaceY20 [637], WikarekS19 [644], Caballero19 [127], German18 [242], DemirovicS18 [178]... (Total: 63)	ZhuSZW23 [676], TardivoDFMP23 [585], abs-2306-05747 [587], MarliereSPR23 [431], NaderiRR23 [465], TasselGS23 [586], EfthymiouY23 [195], PerezGSL23 [504], abs-2312-13682 [505], Mehdizadeh-Somarin23 [435], GuoZ23 [272], ZhangJZL22 [667], ZhangBB22 [668], EmdeZD22 [200], Teppan22 [589], ArmstrongGOS22 [27], abs-2102-08778 [156], AntuoriHHEN21 [22], ZhangYW21 [669], FanXG21 [211], AbreuAPNM21 [167], LacknerMMWW21 [377], HamPK21 [279], AstrandJZ20 [38], SacramentoSP20 [536], BenediktMH20 [86], HauderBRPA20 [287], FallahiAC20 [210], MengZRZL20 [440]... (Total: 112)
Concepts	temporal constraint reasoning			BartakSR10 [58], KeriK07 [346], FortinZDF05 [219]

Type	Keyword	High	Medium	Low
Concepts	transportation	MarliereSPR23 [431], GuoZ23 [272], CzerniachowskaWZ23 [160], PohlAK22 [510], BourreauGGLT22 [119], ArmstrongGOS22 [27], EmdeZD22 [200], GeitzGSSW22 [240], Lemos21 [385], ArmstrongGOS21 [26], ThomasKS20 [596], QinDCS20 [520], Lunardi20 [418], SacramentoSP20 [536], MurinR19 [457], Hooker19 [316], Ham18 [277], PourDERB18 [513], TangLWSK18 [584], CappartTSR18 [131], Froger16 [224], GoelSHFS15 [250], NovasH14 [482], BlomBPS14 [99], KelarevaTK13 [344], NovasH12 [481], HachemiGR11 [276], LopesCSM10 [413], BocewiczBB09 [101]... (Total: 35)	AfsarVPG23 [8], KimCMLLP23 [349], Fatemi-AnarakiTFV23 [213], NaderiRR23 [465], GokPTGO23 [275], AbreuPNF23 [3], AbreuN22 [168], SubulanC22 [575], PopovicCGNC22 [512], NaderiBZ22 [462], ElciOH22 [196], Astrand21 [35], Godet21a [248], AbohashimaEG21 [2], FallahiAC20 [210], MengZRZL20 [440], MejiaY20 [436], ZarandiASC20 [664], LaborieRSV18 [376], EvenSH15 [204], MelgarejoLS15 [11], HarjunkoskiMBC14 [283], RendlPHPR12 [524], Malapert11 [424], MakMS10 [423], MouraSCL08 [455], MouraSCL08a [454], LimRX04 [393], Mason01 [434]... (Total: 32)	Adelgren2023 [7], AalianPG23 [1], PerezGSL23 [504], AlfieriGPS23 [15], ZhuSZW23 [676], IsikYA23 [325], AbreuNP23 [169], abs-2312-13682 [505], WangB23 [639], MontemanniD23a [451], NaderiBZ22a [461], BoudreaultSLQ22 [118], abs-2211-14492 [576], ZhangJZL22 [667], YuraszeckMPV22 [660], LiFJZLL22 [391], ColT22 [161], YunusogluY22 [658], AntuoriHHEN21 [22], HubnerGSV21 [322], Bedhief21 [74], Groleaz21 [264], GroleazNS20a [265], AntunesABD20 [20], WallaceY20 [637], HauderBRPA20 [287], CauwelaertDS20 [143], Novas19 [479], HoundjiSW19 [320]... (Total: 90)
Concepts	two-machine scheduling			AbreuNP23 [169]
Concepts	two-stage scheduling			Astrand21 [35], QinWSLS21 [519], ZarandiASC20 [664], ZouZ20 [679], TangB20 [583]
Concepts	unavailability	Astrand21 [35], Lemos21 [385], Lunardi20 [418], LunardiBLRV20 [417], ZhangW18 [670], Froger16 [224], BajestaniB15 [43], AkkerDH07 [616], KhemmoudjPB06 [348]	Mehdizadeh-Somarin23 [435], PenzDN23 [503], TouatBT22 [602], KovacsTKSG21 [365], SerraNM12 [556], LorigeonBB02 [415]	GuoZ23 [272], PovedaAA23 [514], ShaikhK23 [557], WangB23 [639], abs-2305-19888 [300], HeinzNVH22 [299], YunusogluY22 [658], FanXG21 [211], PandeyS21a [497], AstrandJZ20 [38], WangB20 [638], ArbaouiY18 [24], KreterSSZ18 [368], KreterSS17 [367], TranVNB17 [609], BurtLPS15 [125], GoelSHFS15 [250], KreterSS15 [366], HarjunkoskiMBC14 [283], NovasH14 [482], GuyonLPR12 [274], NovasH10 [480]

7.2 Concept Type Classification

Table 12: Works for Concepts of Type Classification

Type	Keyword	High	Medium	Low
Classification	2BPHFSP	TangB20 [583]		
Classification	BPCTOP	KelarevaTK13 [344]		
Classification	Bulk Port Cargo Throughput Optimisation Problem			KelarevaTK13 [344]
Classification	CECSP	NattafHKAL19 [471], NattafAL17 [468], Nattaf16 [466], NattafALR16 [469], NattafAL15 [467]		
Classification	CHSP	EfthymiouY23 [195], WallaceY20 [637]		
Classification	CTW	KoehlerBFFHPSSS21 [352]	Lombardi10 [402]	
Classification	CuSP	KameugneFND23 [340], FetgoD22 [215], Tesch18 [593], KameugneFGOQ18 [339], Tesch16 [592], NattafALR16 [469], Nattaf16 [466], Froger16 [224], NattafAL15 [467], Derrien15 [179], Kameugne14 [337], KameugneFSN14 [342], DerrienPZ14 [181], KameugneFSN11 [341], SchuttW10 [554], Demassey03 [176]	Fahimi16 [206], GingrasQ16 [246], OuelletQ13 [491], Elkhyari03 [197]	TardivoDFMP23 [585], HanenKP21 [281], Zahout21 [662], DerrienP14 [180]
Classification	EOSP		SquillaciPR23 [574]	
Classification	Earth Observation Scheduling Problem		SquillaciPR23 [574]	
Classification	FJS	JuvinHL23a [335], WangB23 [639], YuraszeckMCCR23 [661], JuvinHL22 [333], MullerMKP22 [456], Teppan22 [589], HamPK21 [279], WangB20 [638], Lunardi20 [418], LunardiBLRV20 [417], ZarandiASC20 [664], MengZRZL20 [440], Novas19 [479], MossigeGSMC17 [453], HamC16 [280]	OujanaAYB22 [494], HauderBRPA20 [287], abs-1902-09244 [286], ZhangW18 [670], SchuttFS13 [547]	NaderiRR23 [465], ColT22 [161], ZhouGL15 [674]
Classification	Fixed Job Scheduling	WangB20 [638]	WangB23 [639]	
Classification	GCSP	Groleaz21 [264], GroleazNS20 [266]		
Classification	HFF	ArmstrongGOS22 [27], OujanaAYB22 [494], ArmstrongGOS21 [26], ZhouGL15 [674]		
Classification	HFFTT	ArmstrongGOS22 [27], ArmstrongGOS21 [26]		
Classification	HFS	IsikYA23 [325], ZhangJZL22 [667], Astrand21 [35], ArmstrongGOS21 [26], Bedhief21 [74], TangB20 [583], MengZRZL20 [440], Baptiste02 [44]		ArmstrongGOS22 [27], ZarandiASC20 [664], Novas19 [479], ZhouGL15 [674]
Classification	JSPT		MurinR19 [457]	
Classification	JSSP	TasselGS23 [586], JuvinHL23a [335], JuvinHHL23 [332], YuraszeckMC23 [659], YuraszeckMCCR23 [661], abs-2306-05747 [587], JuvinHL22 [333], Teppan22 [589], ColT22 [161], YuraszeckMPV22 [660], GeitzGSSW22 [240], Godet21a [248], abs-2102-08778 [156], ZarandiASC20 [664], ColT19 [157], Pralet17 [515], MenciaSV13 [439], MenciaSV12 [438], KelbelH11 [345], BidotVLB09 [94], GodardLN05 [247], Baptiste02 [44], SourdN00 [573], TorresL00 [601], PapaB98 [500], NuijtenP98 [484], NuijtenA96 [485], NuijtenA94 [483]	GalleguillosKSB19 [227], LombardiBM15 [403], SialaAH15 [563], BelhadjiI98 [83]	Mehdizadeh-Somarin23 [435], CzerniachowskaWZ23 [160], EfthymiouY23 [195], WikarekS19 [644], PraletLJ15 [516], GrimesH15 [261], BajestaniB11 [41], ChenGPSH10 [147]

Table 12: Works for Concepts of Type Classification

Type	Keyword	High	Medium	Low
Classification	KRFP	KamarainenS02 [336], SakkoutW00 [539]		
Classification	LSFRP	KelarevaTK13 [344]		
Classification	Liner Shipping Fleet Repositioning Problem		KelarevaTK13 [344]	
Classification	MGAP	Darby-DowmanLMZ97 [164]		
Classification	Modified Generalized Assignment Problem			
Classification	OSP	NaderiRR23 [465], LacknerMMWW23 [378], Bit-Monnot23 [96], LacknerMMWW21 [377], Groleaz21 [264], GombolayWS18 [256], GrimesH15 [261], Siala15 [561], GayHLS15 [231], Siala15a [562], MalapertCGJLR12 [425]	SquillaciPR23 [574], GrimesHM09 [262], MonetteDD07 [449]	MengZRZL20 [440]
Classification	OSSP	YuraszeckMC23 [659], AbreuPNF23 [3], AbreuNP23 [169], YuraszeckMPV22 [660], ColT22 [161], AbreuN22 [168], AbreuAPNM21 [167], MejiaY20 [436], Baptiste02 [44]		YuraszeckMCCR23 [661], ZarandiASC20 [664]
Classification	Open Shop Scheduling Problem	AbreuPNF23 [3], AbreuNP23 [169], AbreuN22 [168], AbreuAPNM21 [167], MejiaY20 [436], ZarandiASC20 [664]	Malapert11 [424], LorigeonBB02 [415]	PrataAN23 [517], NaderiRR23 [465], Bit-Monnot23 [96], YuraszeckMCCR23 [661], YuraszeckMPV22 [660], ColT22 [161], Groleaz21 [264], MengZRZL20 [440], SacramentoSP20 [536], HookerH17 [318], GrimesH15 [261], MalapertCGJLR13 [426], MalapertCGJLR12 [425], Schutt11 [544], GrimesH10 [259], OhrimenkoSC09 [488], GrimesHM09 [262], MonetteDD07 [449], Baptiste02 [44], VerfaillieL01 [621]
Classification	PJSSP	Baptiste02 [44]	PapaB98 [500]	
Classification	PMSP	NaderiRR23 [465], YunusogluY22 [658], WinterMMW22 [645], PandeyS21a [497], Godet21a [248], GodetLHS20 [249], MalapertN19 [427], GedikKEK18 [235], GomesM17 [258], TranAB16 [604], TranB12 [605]	VlkHT21 [633], NattafM20 [472]	ColT22 [161], OujanaAYB22 [494], ZarandiASC20 [664]
Classification	PP-MS-MMRCPSP			
Classification	PTC	NattafM20 [472], MalapertN19 [427], NattafDYW19 [470]	NaderiRR23 [465]	CzerniachowskaWZ23 [160], Teppan22 [589], Dejemeppe16 [173]
Classification	Partial Order Schedule		LombardiBM15 [403], BonfiettiLM14 [111]	Bit-Monnot23 [96], Astrand0F21 [36], Astrand21 [35], CappartTSR18 [131], BonfiettiLBM14 [109], GaySS14 [234], LombardiM12 [409], LombardiM12a [408], LombardiM10 [407], CarchraeBF05 [133]
Classification	Pre-emptive Job-Shop scheduling Problem			
Classification	RCMPSP	HauderBRPA20 [287], abs-1902-09244 [286]		ArtiguesR00 [33]

Table 12: Works for Concepts of Type Classification

Type	Keyword	High	Medium	Low
Classification	RCPSP	YuraszeckMCCR23 [661], GokPTGO23 [275], PovedaAA23 [514], CampeauG22 [129], BoudreaultSLQ22 [118], EtminaniesfahaniGNMS22 [203], FetgoD22 [215], SubulanC22 [575], GeibingerMM21 [239], HubnerGSV21 [322], Godet21a [248], BenderWS21 [84], HillTV21 [306], Zahout21 [662], ArtiguesHQT21 [32], Groleaz21 [264], ZarandiASC20 [664], HauderBRPA20 [287], Polo-MejiaALB20 [511], GokGSTO20 [251], GeibingerMM19 [238], abs-1911-04766 [237], Caballero19 [127], abs-1902-09244 [286], ArkhipovBL19 [25], KreterSSZ18 [368], KameugneFGOQ18 [339], LaborieRSV18 [376], TangLWSK18 [584]... (Total: 66)	Caballero23 [128], KameugneFND23 [340], TardivoDFMP23 [585], KovacsTKSG21 [365], GroleazNS20a [265], Tesch18 [593], CauwelaertLS18 [142], BaptisteB18 [46], Dejemeppe16 [173], NattafAL15 [467], GayHLS15 [231], LombardiBM15 [403], KameugneFSN14 [342], LombardiM13 [410], LombardiMB13 [411], KameugneFSN11 [341], HeinzS11 [297], abs-1009-0347 [549], KeriK07 [346], KovacsV06 [364], HeipckeCCS00 [301], ArtiguesR00 [33]	AbreuPNF23 [3], NaderiRR23 [465], GeitzGSSW22 [240], TouatBT22 [602], HanenKP21 [281], Astrand21 [35], Lemos21 [385], ZhangYW21 [669], Mercier-AubinGQ20 [442], NattafHKAL19 [471], WikarekS19 [644], OuelletQ18 [492], FahimiOQ18 [207], HookerH17 [318], GingrasGQ16 [246], Tesch16 [592], NattafALR16 [469], BonfiettiZLM16 [113], Fahimi16 [206], Siala15 [561], Siala15a [563], SialaAH15 [563], GayHS15a [233], DerrienPZ14 [181], BonfiettiLBM14 [109], KoschB14 [357], BonfiettiLM14 [111], OuelletQ13 [491], SchuttFS13 [547]... (Total: 45)
Classification	RCPSPDC			CampeauG22 [129], HubnerGSV21 [322]
Classification	RTMP	MarliereSPR23 [431]		
Classification	Resource-constrained Project Scheduling Problem	PovedaAA23 [514], BoudreaultSLQ22 [118], EtminaniesfahaniGNMS22 [203], SubulanC22 [575], Godet21a [248], HillTV21 [306], ZarandiASC20 [664], Caballero19 [127], abs-1902-09244 [286], SchnellH15 [543], HeinzSB13 [298], LombardiM12 [409], Schutt11 [544], SchuttFSW11 [550], Lombardi10 [402], DemasseyAM05 [177], Demassey03 [176]	KameugneFND23 [340], YuraszeckMCCR23 [661], Astrand21 [35], Groleaz21 [264], HubnerGSV21 [322], GokGSTO20 [251], HauderBRPA20 [287], Polo-MejiaALB20 [511], ArkhipovBL19 [25], NattafHKAL19 [471], KameugneFGOQ18 [339], BofillCSV17 [103], YoungFS17 [656], AmadiniGM16 [17], Nattaf16 [466], SchuttS16 [553], SzerediS16 [580], VilimLS15 [631], Kameugne14 [337], GuSS13 [268], SchuttFS13a [546], SchuttFSW13 [551], GuSW12 [270], LombardiM12a [408], SchuttCSW12 [545], abs-1009-0347 [549], LiessM08 [392], BeckW07 [73], KovacsV04 [363]... (Total: 33)	abs-2402-00459 [474], Caballero23 [128], GokPTGO23 [275], NaderiRR23 [465], CampeauG22 [129], FetgoD22 [215], MullerMKP22 [456], ArtiguesHQT21 [32], GeibingerMM21 [239], HanenKP21 [281], ZhangYW21 [669], AstrandJZ20 [38], BadicaBI20 [39], GroleazNS20 [266], GroleazNS20a [265], SacramentoSP20 [536], GalleguillosKSB19 [227], GeibingerMM19 [238], abs-1911-04766 [237], BaptisteB18 [46], CauwelaertLS18 [142], FahimiOQ18 [207], GombolayWS18 [256], KreterSSZ18 [368], LaborieRSV18 [376], Tesch18 [593], KreterSS17 [367], MossigeGSMC17 [453], Pralet17 [515]... (Total: 60)
Classification	Resource-constrained Project Scheduling Problem with Discounted Cashflow			ZarandiASC20 [664]
Classification	SBSFMMAL	OzturkTHO13 [496], OzturkTHO10 [495]	OzturkTHO15 [681]	
Classification	SCC	KimCMLLP23 [349], WolinskiKG04 [651]	SchuttFSW13 [551], Lombardi10 [402], abs-1009-0347 [549]	PohlAK22 [510], Zahout21 [662], LombardiMB13 [411], BeniniLMR11 [90], SchausHMCMD11 [541], LombardiMRB10 [412], BeniniLMR08 [89]
Classification	SMSDP			
Classification	Steel-making and continuous casting			
Classification	TCSP	BelhadjiI98 [83]		Zahout21 [662], BartakSR10 [58], LombardiM10a [406], Lombardi10 [402], Demassey03 [176]
Classification	TMS	PopovicCGNC22 [512], Froger16 [224]	BegB13 [75]	CappartS17 [130], Siala15a [562], Siala15 [561]
Classification	Temporal Constraint Satisfaction Problem		BelhadjiI98 [83]	BartakSR10 [58], MoffittPP05 [447], Elkhyari03 [197]

Table 12: Works for Concepts of Type Classification

Type	Keyword	High	Medium	Low
Classification	parallel machine	PrataAN23 [517], abs-2305-19888 [300], Adelgren2023 [7], IsikYA23 [325], CzerniachowskaWZ23 [160], NaderiRR23 [465], YunusogluY22 [658], ZhangJZL22 [667], WinterMMW22 [645], HeinzNVH22 [299], OujanaAYB22 [494], PandeyS21a [497], Astrand21 [35], Godet21a [248], Groleaz21 [264], ZarandiASC20 [664], MengZRZL20 [440], Lunardi20 [418], GodetLHS20 [249], NattafM20 [472], NattafDYW19 [470], MalapertN19 [427], GokgurHO18 [252], GedikKEK18 [235], ArbaouiY18 [24], TanT18 [582], GomesM17 [258], HebrardHJMPV16 [290], TranAB16 [604]... (Total: 35)	PenzDN23 [503], JuvinHL23a [335], Fatemi-AnarakiTFV23 [213], AbreuPNF23 [3], AbreuNP23 [169], Teppan22 [589], NaderiBZ22 [462], EmdeZD22 [200], ColT22 [161], Zahout21 [662], Bedhief21 [74], MokhtarzadehTNF20 [448], SacramentoSP20 [536], MejiaY20 [436], ParkUJR19 [501], Novas19 [479], BogaerdtW19 [617], Ham18a [278], BenediktSMVH18 [87], RoshanaeiLAU17 [532], CatusseCBL16 [140], ZhouGL15 [674], TerekhovTDB14 [591], TranTDB13 [608], BajestaniB13 [42], GuyonLPR12 [274], KovacsB11 [360], AkkerDH07 [616], SadykovW06 [538], Thorsteinsson01 [597]	KimCMLLP23 [349], GuoZ23 [272], JuvinHHL23 [332], LacknerMMWW23 [378], Mehdizadeh-Somarin23 [435], AlfieriGPS23 [15], JuvinHL22 [333], ArmstrongGOS22 [27], OrnekOS20 [490], EtminaniesfahaniGNMS22 [203], NaderiBZ22a [461], HanenKP21 [281], FanXG21 [211], AbohashimaEG21 [2], AbreuAPNM21 [167], HamPK21 [279], LacknerMMWW21 [377], RoshanaeiBAUB20 [531], GroleazNS20a [265], QinDCS20 [520], AstrandJZ20 [38], NishikawaSTT19 [477], Hooker19 [316], ArkhipovBL19 [25], Ham18 [277], BaptisteB18 [46], LaborieRSV18 [376], HookerH17 [318], KletzanderM17 [351]... (Total: 49)
Classification	psplib	TardivoDFMP23 [585], Caballero19 [127], ArkhipovBL19 [25], KreterSSZ18 [368], OuelletQ18 [492], GayHS15a [233], Derrien15 [179], LetortCB15 [389], KameugneFSN14 [342], DerrienP14 [180], Kameugne14 [337], SchuttFSW13 [551], SchuttFS13a [546], HeinzSB13 [298], Letort13 [386], Clercq12 [170], SchuttFSW11 [550], Schutt11 [544], BertholdHLMS10 [92], SchuttFSW09 [548], Demassey03 [176]	KameugneFND23 [340], BoudreaultSLQ22 [118], EtminaniesfahaniGNMS22 [203], HillTV21 [306], BadicaBI20 [39], Tesch18 [593], FahimiOQ18 [207], BaptisteB18 [46], Tesch16 [592], GingrasQ16 [246], Nattaf16 [466], SzerediS16 [580], VilimLS15 [631], GayHLS15 [231], LombardiBM15 [403], BonfiettiLM14 [111], LetortCB13 [388], LombardiM12a [408], LetortBC12 [387], HeinzS11 [297], Vilim11 [628], abs-1009-0347 [549], SchuttW10 [554]	Godet21a [248], CauwelaertLS18 [142], LaborieRSV18 [376], YoungFS17 [656], Pralet17 [515], BofillCSV17 [103], Dejemeppe16 [173], SchnellH15 [543], ThiruvadyWGS14 [595], LombardiM13 [410], OuelletQ13 [491], LombardiM12 [409], KameugneFSN11 [341], LiessM08 [392], FortinZDF05 [219], DemasseyAM05 [177], ElkhyariGJ02a [199]
Classification	rtRTMP	MarliereSPR23 [431]		
Classification	single machine	BonninMNE24 [114], PrataAN23 [517], AlfieriGPS23 [15], LacknerMMWW23 [378], PenzDN23 [503], TouatBT22 [602], HamPK21 [279], Groleaz21 [264], BenediktMH20 [86], ZarandiASC20 [664], BogaerdtW19 [617], BajestaniB15 [43], BajestaniB13 [42], TerekhovDOB12 [590], KovacsB11 [360], ThiruvadyBME09 [594], WuBB09 [653], KovacsB07 [358], SadykovW06 [538], KanetAG04 [343], Elkhyari03 [197], Baptiste02 [44], SourdN00 [573], BlazewiczDP96 [126]	ZhangBB22 [668], EmdeZD22 [200], NaderiBZ22 [462], ElciOH22 [196], YuraszeckMPV22 [660], Bedhief21 [74], KoehlerBFFHPSSS21 [352], LacknerMMWW21 [377], PandeyS21a [497], Astrand21 [35], HillTV21 [306], Zahout21 [662], AbreuAPNM21 [167], NattafM20 [472], Lunardi20 [418], BenediktSMVH18 [87], Tesch18 [593], TranPZLDB18 [607], TanT18 [582], GomesM17 [258], TranAB16 [604], KoschB14 [357], BillautHL12 [95], TranB12 [605], KovacsK11 [362], Malapert11 [424], MilanoW09 [446], Jans09 [328], AkkerDH07 [616]... (Total: 35)	abs-2402-00459 [474], IsikYA23 [325], NaderiRR23 [465], Fatemi-AnarakiTFV23 [213], JuvinHL23a [335], Mehdizadeh-Somarin23 [435], GeitzGSSW22 [240], JuvinHL22 [333], ZhangJZL22 [667], AbreuN22 [168], ColT22 [161], abs-2211-14492 [576], PohlAK22 [510], LiFJZLL22 [391], Godet21a [248], FanXG21 [211], QinWSLS21 [519], KovacsTKSG21 [365], GodetLHS20 [249], TangB20 [583], ParkUJR19 [501], Tom19 [599], HoundjiSW19 [320], NattafDYW19 [470], NattafHKAL19 [471], Hooker19 [316], MalapertN19 [427], GedikKEK18 [235], ArbaouiY18 [24]... (Total: 84)

7.3 Concept Type Constraints

Table 13: Works for Concepts of Type Constraints

Type	Keyword	High	Medium	Low
Constraints	AllDiff constraint	WangB20 [638]		Godet21a [248], FahimiOQ18 [207], Fahimi16 [206], Lombardi10 [402]
Constraints	AllDiffPrec constraint	Godet21a [248]		JuvinHHL23 [332]
Constraints	AlwaysConstant		LuoB22 [420], LaborieRSV18 [376]	
Constraints	Among constraint	Siala15a [562], Siala15 [561], BeldiceanuC94 [78]	Simonis07 [569]	German18 [242], HookerH17 [318], Simonis95 [567], AggounB93 [9]
Constraints	AmongSeq constraint		Siala15 [561], Siala15a [562]	
Constraints	Arithmetic constraint		ColT22 [161]	BadicaBI20 [39], Caballero19 [127], BadicaBIL19 [40], LaborieRSV18 [376], Schutt11 [544], OhrimenkoSC09 [488], ElkhyariGJ02a [199], Baptiste02 [44], Thorsteinsson01 [597], SakkoutW00 [539], FalaschiGMP97 [209], BeldiceanuC94 [78], AggounB93 [9]
Constraints	AtMostSeq	Siala15a [562], Siala15 [561]		
Constraints	AtMostSeqCard	Siala15 [561], Siala15a [562]		
Constraints	Atmost constraint	Siala15a [562], Siala15 [561]		Simonis07 [569], BeldiceanuC94 [78]
Constraints	Balance constraint	Laborie03 [373]	Timpe02 [598], Muscettola02 [459]	GuoZ23 [272], PopovicCGNC22 [512], German18 [242], SchuttS16 [553], Siala15 [561], Siala15a [562], GrimesH15 [261], Kameugne14 [337], DerrienPZ14 [181], TerekhovDOB12 [590], Lombardi10 [402], GrimesHM09 [262], LombardiM09 [405], BeckW07 [73], BeckW05 [72]
Constraints	BinPacking constraint			Godet21a [248], AntunesABD18 [19]
Constraints	Blocking constraint	AbreuNP23 [169], RiahiNS018 [525]		IsikYA23 [325], LiFJZLL22 [391], MengZRZL20 [440], RodriguezS09 [530], Rodriguez07b [528], Rodriguez07 [527]
Constraints	BufferedResource	BessiereHMQW14 [93]		
Constraints	Calendar constraint	KreterSSZ18 [368], KreterSS17 [367]	KreterSS15 [366]	PovedaAA23 [514], IsikYA23 [325], Polo-MejiaALB20 [511], LaborieRSV18 [376]
Constraints	CardPath			Siala15 [561], Siala15a [562]
Constraints	Cardinality constraint	Caballero19 [127], Dejemeppe16 [173], Siala15a [562], Siala15 [561], SchausHMCMD11 [541], Malik08 [428]	OuelletQ22 [493], HoundjiSW19 [320], German18 [242], MusliuSS18 [460], HookerH17 [318], Fahimi16 [206], BofillGSV15 [105], HoundjiSWD14 [321], ChuGNSW13 [148], HachemiGR11 [276], MilanoW09 [446], MalikMB08 [429], Simonis07 [569], MilanoW06 [445]	GeibingerKKMMW21 [236], Godet21a [248], Lemos21 [385], CauwelaertDS20 [143], TangB20 [583], abs-1911-04766 [237], TranVNB17 [609], PesantRR15 [506], DoulabiRP14 [190], BessiereHMQW14 [93], BajestaniB13 [42], LimtanyakulS12 [397], Menana11 [437], BajestaniB11 [41], ClercqPBJ11 [152], KovacsB11 [360], abs-0907-0939 [507], OhrimenkoSC09 [488], KovacsB08 [359], Baptiste02 [44], BeckF00 [68], PapaB98 [500], AggounB93 [9]
Constraints	Channeling constraint	OzturkTHO13 [496], Wallace06 [636]	KoehlerBFFHPSSS21 [352], BofillEGPSV14 [104], HeinzB12 [294]	WangB23 [639], AntuoriHHEN20 [21], LiuLH19 [399], GokgurHO18 [252], BofillGSV15 [105], HeinzKB13 [295], KovacsB11 [360], WuBB09 [653], MilanoW09 [446], MouraSCL08 [455], MouraSCL08a [454], GarganiR07 [228], MilanoW06 [445]
Constraints	Completion constraint	KovacsB11 [360], KovacsB08 [359], KovacsB07 [358]	BonninMNE24 [114]	HeckmanB11 [293]
Constraints	CumulativeCost	SimonisH11 [572]		

Table 13: Works for Concepts of Type Constraints

Type	Keyword	High	Medium	Low
Constraints	Cumulatives constraint	BeldiceanuC02 [79]	MossigeGSMC17 [453], Madi-WambaLOBM17 [422]	KameugneFND23 [340], TardivoDFMP23 [585], OuelletQ22 [493], BoudreaultSLQ22 [118], ArkhipovBL19 [25], OuelletQ18 [492], FahimiOQ18 [207], Fahimi16 [206], SchuttS16 [553], Dejemeppe16 [173], GayHS15a [233], LetortCB15 [389], GayHS15 [232], Kameugne14 [337], DerrienPZ14 [181], OuelletQ13 [491], Letort13 [386], Clercq12 [170], LetortBC12 [387], SimonisH11 [572], ClercqPBJ11 [152], Malapert11 [424], Wolf11 [648], MilanoW09 [446], abs-0907-0939 [507], Simonis07 [569], MilanoW06 [445]
Constraints	Diff2 constraint			WolinskiKG04 [651], KuchcinskiW03 [370]
Constraints	Disjunctive constraint	KoehlerBFFHPSSS21 [352], Godet21a [248], GrimesH15 [261], Malapert11 [424], Baptiste02 [44], SourdN00 [573], RodosekW98 [526], PapaB98 [500], Zhou97 [673], DincbasSH90 [185]	BonninMNE24 [114], JuvinHHL23 [332], NaderiRR23 [465], BourreauGGLT22 [119], GodetLHS20 [249], GokgurHO18 [252], Fahimi16 [206], KuB16 [369], SialaAH15 [563], Siala15a [562], MelgarejoLS15 [11], Siala15 [561], SchuttFS13 [547], OzturkTHO13 [496], GrimesH11 [260], LombardiM10a [406], Lombardi10 [402], BartakSR10 [58], GrimesH10 [259], GrimesHM09 [262], ArtiguesBF04 [30], KanetAG04 [343], Laborie03 [373], ElkhyariGJ02a [199], SchildW00 [542], FocacciLN00 [216], BeckF00 [68], SakkoutW00 [539], BelhadjiI98 [83]... (Total: 32)	abs-2402-00459 [474], KameugneFND23 [340], Bit-Monnot23 [96], MarliereSPR23 [431], JuvinHL23a [335], NaderiBZ22a [461], JuvinHL22 [333], ZhangBB22 [668], abs-2211-14492 [576], BoudreaultSLQ22 [118], YuraszeckMPV22 [660], NaderiBZ22 [462], Groleaz21 [264], Astrand21 [35], Astrand0F21 [36], Polo-MejiaALB20 [511], MejiaY20 [436], AstrandJZ20 [38], WallaceY20 [637], German18 [242], LaborieRSV18 [376], KameugneFGOQ18 [339], TanT18 [582], FahimiOQ18 [207], DemirovicS18 [178], OrnekO16 [489], Dejemeppe16 [173], MurphyMB15 [458], Derrien15 [179]... (Total: 71)
Constraints	Element constraint	Dejemeppe16 [173]	KreterSS17 [367], Wolf11 [648], Darby-DowmanLMZ97 [164]	LacknerMMWW23 [378], LuoB22 [420], Godet21a [248], LacknerMMWW21 [377], TangB20 [583], AntuoriHHEN20 [21], KreterSSZ18 [368], LiuCGM17 [400], Madi-WambaLOBM17 [422], SzerediS16 [580], OrnekO16 [489], DoulabiRP16 [191], KreterSS15 [366], DoulabiRP14 [190], HoundjiSWD14 [321], BessiereHMQW14 [93], OzturkTHO12 [680], SimonisH11 [572], SchausHMCMD11 [541], Malapert11 [424], Schutt11 [544], MouraSCL08 [455], SchausD08 [540], GarganiR07 [228], BeldiceanuC94 [78]
Constraints	Flowtime constraint	BonninMNE24 [114]		
Constraints	GCC constraint	HoundjiSW19 [320], Dejemeppe16 [173], HoundjiSWD14 [321]	SchausHMCMD11 [541]	OuelletQ22 [493], TangB20 [583], CauwelaertLS18 [142], Siala15 [561], Siala15a [562], BajestaniB13 [42], HachemiGR11 [276], MilanoW09 [446], Simonis07 [569], MilanoW06 [445]
Constraints	GeneralizedAllDiffPrec	Godet21a [248]		
Constraints	IloAlternative			HeinzB12 [294]
Constraints	IloAlwaysIn			KreterSS17 [367], BajestaniB13 [42]
Constraints	IloForbidEnd			KreterSS17 [367]
Constraints	IloNoOverlap			GrimesH15 [261]
Constraints	IloPack		SchausD08 [540]	
Constraints	IloPulse			KreterSS17 [367], BajestaniB13 [42]
Constraints	MinWeightAllDiff	WangB20 [638]		WangB23 [639]
Constraints	MultiAtMostSeqCard	Siala15a [562], Siala15 [561]		
Constraints	PreemptiveNoOverlap	JuvinHHL23 [332]		
Constraints	Pulse constraint			PandeyS21a [497], GeibingerMM19 [238], ArbaouiY18 [24], KreterSS17 [367]
Constraints	Regular constraint	MusliuSS18 [460], Siala15a [562], Siala15 [561], PesantRR15 [506]	HookerH17 [318], Dejemeppe16 [173]	FrimodigS19 [223], PraletLJ15 [516], Menana11 [437], KovacsB11 [360], KovacsB08 [359]

Table 13: Works for Concepts of Type Constraints

Type	Keyword	High	Medium	Low
Constraints	Reified constraint	Schutt11 [544], MilanoW09 [446]	KovacsK11 [362], MilanoW06 [445]	Astrand21 [35], BadicaBI20 [39], CauwelaertLS18 [142], LaborieRSV18 [376], KreterSS17 [367], Dejemeppe16 [173], Siala15 [561], Siala15a [562], SchuttFSW13 [551], OhrimenkoSC09 [488], SchausD08 [540], SchildW00 [542]
Constraints	RelSoftCumulative	abs-0907-0939 [507]		
Constraints	RelSoftCumulativeSum			abs-0907-0939 [507]
Constraints	SoftCumulative	Clercq12 [170], ClercqPBJ11 [152], abs-0907-0939 [507]	OuelletQ22 [493]	
Constraints	SoftCumulativeSum	Clercq12 [170], abs-0907-0939 [507]		ClercqPBJ11 [152]
Constraints	TaskIntersection constraint	Madi-WambaB16 [421]		
Constraints	UTVPI constraint	Schutt11 [544]		
Constraints	WeightAllDiff	WangB20 [638]		WangB23 [639]
Constraints	WeightedSum	Wolf09 [650]		
Constraints	WeightedTaskSum	Wolf09 [650]		
Constraints	alldifferent	JuvinHHL23 [332], Lemos21 [385], KoehlerBFFHPSSS21 [352], Godet21a [248], HoundjiSW19 [320], CauwelaertLS18 [142], Dejemeppe16 [173], Siala15 [561], Derrien15 [179], Siala15a [562], Clercq12 [170], Menana11 [437], Malapert11 [424], MilanoW09 [446], OhrimenkoSC09 [488], Simonis07 [569], MilanoW06 [445], KanetAG04 [343]	GodetLHS20 [249], HookerH17 [318], Fahimi16 [206], BessiereHMQW14 [93], KelarevaTK13 [344], TerekhovDOB12 [590], Schutt11 [544]	WangB23 [639], GokPTGO23 [275], ColT22 [161], FarsiTM22 [212], BourreauGGLT22 [119], Astrand21 [35], AntuoriHHEN20 [21], AstrandJZ20 [38], WangB20 [638], Lunardi20 [418], MokhtarzadehTNF20 [448], Caballero19 [127], FahimiOQ18 [207], Nattaf16 [466], MelgarejoLS15 [11], AlesioNBG14 [182], ChuGNSW13 [148], Letort13 [386], HachemiGR11 [276], ClercqPBJ11 [152], HermenierDL11 [304], TrojetHL11 [612], LopesCSM10 [413], Malik08 [428], Thorsteinsson01 [597], Simonis99 [568], BeldiceanuC94 [78]
Constraints	alternative constraint	LaborieRSV18 [376]	abs-2305-19888 [300], MurinR19 [457], GokgurHO18 [252]	LacknerMMWW23 [378], ZhuSZW23 [676], MarliereSPR23 [431], NaderiRR23 [465], SvancaraB22 [579], WinterMMW22 [645], ZhangJZL22 [667], HeinzNVH22 [299], VlkHT21 [633], HillTV21 [306], ArmstrongGOS21 [26], HubnerGSV21 [322], PandeyS21a [497], MengZRZL20 [440], Polo-MejiaALB20 [511], SacramentoSP20 [536], YounespourAKE19 [655], GeibingerMM19 [238], NishikawaSTT19 [477], GalleguillosKSB19 [227], MalapertN19 [427], EscobetPQPRA19 [202], NattafDYW19 [470], abs-1911-04766 [237], NishikawaSTT18a [476], NishikawaSTT18 [475], ArbaouiY18 [24], Ham18a [278], Laborie18a [375]... (Total: 42)
Constraints	alwaysEqual constraint		LaborieRSV18 [376], GoelSHFS15 [250]	HamC16 [280]
Constraints	alwaysIn	PopovicCGNC22 [512], SerraNM12 [556]	AalianPG23 [1], LuoB22 [420], TangB20 [583], Polo-MejiaALB20 [511], MalapertN19 [427], LaborieRSV18 [376], GoelSHFS15 [250]	CampeauG22 [129], KreterSS17 [367], BajestaniB13 [42]
Constraints	bin-packing	Godet21a [248], Zahout21 [662], TangB20 [583], CauwelaertLS18 [142], RoshanaeiLAU17 [532], LetortCB15 [389], Letort13 [386], LetortCB13 [388], HeinzSSW12 [296], LetortBC12 [387], SchausHMCMD11 [541], Malapert11 [424], SchausD08 [540]	JuvinHL23a [335], LuoB22 [420], EmdeZD22 [200], BadicaBI20 [39], AntunesABD20 [20], FrimodigS19 [223], AntunesABD18 [19], BaptisteB18 [46], LiW08 [390], GarganiR07 [228], SchildW00 [542], SakkoutW00 [539]	abs-2402-00459 [474], Fatemi-AnarakiTFV23 [213], GuoZ23 [272], LacknerMMWW23 [378], AkramNHRSA23 [13], YunusogluY22 [658], abs-2211-14492 [576], ArmstrongGOS21 [26], GodetLHS20 [249], RoshanaeiBAUB20 [531], TranPZLDB18 [607], German18 [242], HookerH17 [318], Madi-WambaLOBM17 [422], DoulabiRP16 [191], DoulabiRP14 [190], KoschB14 [357], LimtanyakulS12 [397], EdisO11 [192], HermenierDL11 [304], Schutt11 [544], BeldiceanuCDP11 [80], Lombardi10 [402], LombardiMRB10 [412], KovacsB08 [359], HentenryckM08 [303], Simonis07 [569], DavenportKRSH07 [166], SimonisCK00 [570]... (Total: 31)

Table 13: Works for Concepts of Type Constraints

Type	Keyword	High	Medium	Low
Constraints	circuit	MontemanniD23a [451], KlankeBYE21 [350], Mercier-AubinGQ20 [442], MokhtarzadehTNF20 [448], Caballero19 [127], HookerH17 [318], Lombardi10 [402], RuggieroBBMA09 [535], RodriguezS09 [530], Rodriguez07 [527], Rodriguez07b [528], RodriguezDG02 [529], GruianK98 [267], Wallace96 [635], BeldiceanuC94 [78]	Groleaz21 [264], AntuoriHHEN20 [21], WessenCS20 [643], Siala15 [561], Siala15a [562], LombardiMB13 [411], TranB12 [605], Malapert11 [424], KrogtLPHJ07 [618], KuchcinskiW03 [370], HookerO03 [317], Thorsteinsson01 [597], Simonis99 [568], Simonis95a [566], DincbasSH90 [185]	PrataAN23 [517], IsikYA23 [325], MontemanniD23 [452], MarliereSPR23 [431], Fatemi-AnarakiTFV23 [213], GokPTGO23 [275], JuvinHL23a [335], ColT22 [161], MullerMKP22 [456], JungblutK22 [331], FarsiTM22 [212], JuvinHL22 [333], Astrand21 [35], KoehlerBFFHPSSS21 [352], Zahout21 [662], ArmstrongGOS21 [26], GokGSTO20 [251], GroleazNS20 [266], WallaceY20 [637], HoundjiSW19 [320], EscobetPQPRA19 [202], Hooker19 [316], Ham18a [278], TangLWSK18 [584], CappartTSR18 [131], CauwelaertLS18 [142], Hooker17 [315], BridiBLMB16 [121], HechingH16 [292]... (Total: 74)
Constraints	cumulative	TardivoDFMP23 [585], NaderiRR23 [465], LacknerMMWW23 [378], PovedaAA23 [514], AalianPG23 [1], KameugneFND23 [340], IsikYA23 [325], FetgoD22 [215], PohlAK22 [510], OuelletQ22 [493], ZhangJZL22 [667], LuoB22 [420], BoudreaultSLQ22 [118], Lemos21 [385], LacknerMMWW21 [377], KovacsTKSG21 [365], Godet21a [248], Zahout21 [662], Groleaz21 [264], HanenKP21 [281], Polo-MejiaALB20 [511], Mercier-AubinGQ20 [442], WallaceY20 [637], GroleazNS20a [265], SacramentoSP20 [536], GodetLHS20 [249], ThomasKS20 [596], GroleazNS20 [266], YangSS19 [654]... (Total: 164)	ForbesHJST24 [218], BonninMNE24 [114], PrataAN23 [517], abs-2402-00459 [474], EfthymiouY23 [195], abs-2312-13682 [505], GokPTGO23 [275], PerezGSL23 [504], ColT22 [161], ElciOH22 [196], YunusogluY22 [658], CampeauG22 [129], GeitzGSSW22 [240], AbreuN22 [168], HillTV21 [306], HubnerGSV21 [322], KlankeBYE21 [350], NattafM20 [472], NattafHKAL19 [471], GalleguillosKSB19 [227], NishikawaSTT19 [477], BorghesiBLMB18 [116], GedikKEK18 [235], TranVNB17a [610], HurleyOS16 [323], BoothNB16 [115], BonfiettiZLM16 [113], Bonfietti16 [106], LimHTB16 [394]... (Total: 57)	GurPAE23 [273], TasselGS23 [586], JuvinHL23a [335], abs-2306-05747 [587], AbreuPNF23 [3], abs-2305-19888 [300], Bit-Monnot23 [96], YuraszeckMCCR23 [661], JuvinHHL23 [332], MarliereSPR23 [431], HeinzNVH22 [299], PopovicCGNC22 [512], HebrardALLCMR22 [289], abs-2211-14492 [576], SubulanC22 [575], JuvinHL22 [333], ArmstrongGOS22 [27], Astrand21 [35], PandeyS21a [497], ArtiguesHQT21 [32], GeibingerMM21 [239], KoehlerBFFHPSSS21 [352], ArmstrongGOS21 [26], GokGSTO20 [251], ZouZ20 [679], HauderBRPA20 [287], CauwelaertDS20 [143], abs-1902-09244 [286], FrimodigS19 [223]... (Total: 119)
Constraints	cycle	AalianPG23 [1], Astrand0F21 [36], Astrand21 [35], AbohashimaEG21 [2], AntuoriHHEN21 [22], Groleaz21 [264], GroleazNS20a [265], AntuoriHHEN20 [21], WallaceY20 [637], AstrandJZ20 [38], Caballero19 [127], ParkUJR19 [501], BorghesiBLMB18 [116], AstrandJZ18 [37], GomesM17 [258], Dejemeppe16 [173], BridiBLMB16 [121], OzturkTHO15 [681], BessiereHMQW14 [93], BonfiettiLBM14 [109], BegB13 [75], MalapertCGJLR12 [425], MenciaSV12 [438], LombardiBMB11 [404], Malapert11 [424], Schutt11 [544], SunLYL10 [577], LombardiMRB10 [412], RuggieroBBMA09 [535]... (Total: 44)	EfthymiouY23 [195], CampeauG22 [129], Lemos21 [385], KoehlerBFFHPSSS21 [352], HillTV21 [306], HubnerGSV21 [322], Godet21a [248], CauwelaertDS20 [143], Lunardi20 [418], ZarandiASC20 [664], GroleazNS20 [266], ArkhipovBL19 [25], MossigeGSMC17 [453], TranAB16 [604], Froger16 [224], SimoninAHL15 [565], BurtLPS15 [125], PraletLJ15 [516], Siala15 [561], Siala15a [562], HarjunkoskiMBC14 [283], TranTDB13 [608], SchuttFSW13 [551], SimoninAHL12 [564], OzturkTHO12 [680], BonfiettiLBM12 [108], HachemiGR11 [276], KovacsB11 [360], BonfiettiLBM11 [107]... (Total: 46)	Bit-Monnot23 [96], AkramNHRSA23 [13], GokPTGO23 [275], Fatemi-AnarakiTFV23 [213], GuoZ23 [272], MarliereSPR23 [431], ZhangBB22 [668], BourreauGGLT22 [119], AbreuN22 [168], ArmstrongGOS21 [26], Zahout21 [662], FanXG21 [211], HamPK21 [279], AbreuAPNM21 [167], QinDCS20 [520], BadicaBI20 [39], MokhtarzadehTNF20 [448], HauderBRPA20 [287], TangB20 [583], FallahiAC20 [210], Mercier-AubinGQ20 [442], Novas19 [479], Hooker19 [316], BadicaBIL19 [40], abs-1902-09244 [286], EscobetPQPRA19 [202], KucukY19 [372], Ham18a [278], Ham18 [277]... (Total: 90)
Constraints	diffn	ArmstrongGOS21 [26], Simonis07 [569], SimonisCK00 [570], BeldiceanuC94 [78]	BeldiceanuCDP11 [80]	BourreauGGLT22 [119], LuoB22 [420], KreterSS17 [367], KreterSS15 [366], Malapert11 [424], TrojetHL11 [612], ChenGPSH10 [147], Timpe02 [598], Simonis99 [568], GruianK98 [267], SimonisC95 [571], Simonis95a [566], Simonis95 [567]

Table 13: Works for Concepts of Type Constraints

Type	Keyword	High	Medium	Low
Constraints	disjunctive	BonninMNE24 [114], JuvinHHL23 [332], NaderiRR23 [465], AfsarVPG23 [8], Bit-Monnot23 [96], YuraszeckMPV22 [660], BourreauGGLT22 [119], ZhangBB22 [668], JuvinHL22 [333], Groleaz21 [264], Godet21a [248], KoehlerBFFHPSSS21 [352], Astrand21 [35], GodetLHS20 [249], FahimiOQ18 [207], GokgurHO18 [252], LaborieRSV18 [376], German18 [242], NattafAL17 [468], Pralet17 [515], HookerH17 [318], MossigeGSMC17 [453], FontaineMH16 [217], KuB16 [369], Fahimi16 [206], OrnekO16 [489], Siala15 [561], Siala15a [562], GrimesH15 [261]... (Total: 84)	MarliereSPR23 [431], Adelgren2023 [7], JuvinHL23a [335], BoudreaultSLQ22 [118], OrnekOS20 [490], Astrand0F21 [36], GeibingerMM21 [239], AstrandJZ20 [38], Polo-MejiaALB20 [511], SacramentoSP20 [536], RoshanaeiBAUB20 [531], MejiaY20 [436], YangSS19 [654], CauwelaertLS18 [142], DemirovicS18 [178], TanT18 [582], KameugneFGOQ18 [339], Dejemeppe16 [173], Nattaf16 [466], SimoninAHL15 [565], VilimLS15 [631], EvenSH15 [204], EvenSH15a [205], GayHS15 [232], LipovetzkyBPS14 [398], KameugneFSN14 [342], HarjunkoskiMBC14 [283], GaySS14 [234], MalapertCGJLR13 [426]... (Total: 48)	abs-2402-00459 [474], LacknerMMWW23 [378], abs-2306-05747 [587], KameugneFND23 [340], EfthymiouY23 [195], TasselGS23 [586], Fatemi-AnarakiTFV23 [213], TardivoDFMP23 [585], ZhuSZW23 [676], PovedaAA23 [514], GokPTGO23 [275], AbreuPNF23 [3], MullerMKP22 [456], ElciOH22 [196], NaderiBZ22a [461], OujanaAYB22 [494], NaderiBZ22 [462], OuelletQ22 [493], ColT22 [161], abs-2211-14492 [576], ZhangYW21 [669], KlankeBYE21 [350], ZarandiASC20 [664], Mercier-AubinGQ20 [442], CauwelaertDS20 [143], WallaceY20 [637], GokGSTO20 [251], Lunardi20 [418], KucukY19 [372]... (Total: 143)
Constraints	endBeforeStart	SubulanC22 [575], QinDCS20 [520]	ZhuSZW23 [676], IsikYA23 [325], NaderiRR23 [465], NaderiBZ22a [461], PandeyS21a [497], LunardiBLRV20 [417], Lunardi20 [418], MengZRZL20 [440], LaborieRSV18 [376], NovaraNH16 [478], Laborie09 [374]	JuvinHL23a [335], LacknerMMWW23 [378], AalianPG23 [1], JuvinHHL23 [332], YuraszeckMCCR23 [661], CzerniachowskaWZ23 [160], JuvinHL23 [334], CampeauG22 [129], ZhangJZL22 [667], Teppan22 [589], YunusogluY22 [658], JuvinHL22 [333], LacknerMMWW21 [377], HamPK21 [279], HubnerGSV21 [322], ZhangYW21 [669], Polo-MejiaALB20 [511], BenediktMH20 [86], TangB20 [583], ZouZ20 [679], SacramentoSP20 [536], GeibingerMM19 [238], Novas19 [479], MurinR19 [457], abs-1902-09244 [286], ParkUJR19 [501], abs-1911-04766 [237], NishikawaSTT18a [476], NishikawaSTT18 [475]... (Total: 32)
Constraints	geost	BeldiceanuCDP11 [80]	LetortBC12 [387], PembertonG98 [502]	Letort13 [386], Malapert11 [424], Schutt11 [544], BeldiceanuCP08 [81]
Constraints	noOverlap	abs-2305-19888 [300], IsikYA23 [325], JuvinHHL23 [332], NaderiRR23 [465], ZhuSZW23 [676], PopovicCGNC22 [512], HeinzNVH22 [299], ColT22 [161], Groleaz21 [264], VlkHT21 [633], Lunardi20 [418], LunardiBLRV20 [417], QinDCS20 [520], GedikKEK18 [235], MelgarejoLS15 [11]	abs-2306-05747 [587], KimCMLLP23 [349], LacknerMMWW23 [378], TasselGS23 [586], YuraszeckMPV22 [660], NaderiBZ22a [461], AbreuN22 [168], PohlAK22 [510], SvancaraB22 [579], KlankeBYE21 [350], Bedhief21 [74], BenderWS21 [84], ZouZ20 [679], RoshanaeiBAUB20 [531], BenediktMH20 [86], MengZRZL20 [440], SacramentoSP20 [536], MalapertN19 [427], abs-1911-04766 [237], YounespourAKE19 [655], MurinR19 [457], EscobetPQPRA19 [202], Novas19 [479], LaborieRSV18 [376], Ham18a [278], ZhangW18 [670], ArbaouiY18 [24], Ham18 [277], CohenHB17 [155]... (Total: 36)	BonninMNE24 [114], JuvinHL23a [335], YuraszeckMC23 [659], AalianPG23 [1], AbreuPNF23 [3], AbreuNP23 [169], JuvinHL23 [334], CzerniachowskaWZ23 [160], SquillaciPR23 [574], MarliereSPR23 [431], YunusogluY22 [658], WinterMMW22 [645], CampeauG22 [129], OujanaAYB22 [494], ArmstrongGOS22 [27], TouatBT22 [602], EmdeZD22 [200], ZhangJZL22 [667], Teppan22 [589], JuvinHL22 [333], OrnekOS20 [490], NaderiBZ22 [462], HamPK21 [279], AbreuAPNM21 [167], LacknerMMWW21 [377], GroleazNS20a [265], Polo-MejiaALB20 [511], GroleazNS20 [266], NattafM20 [472]... (Total: 43)
Constraints	regular expression		FrimodigS19 [223]	HookerH17 [318]
Constraints	span constraint		Groleaz21 [264], CappartS17 [130], SchuttFS13 [547], LombardiM10a [406], Lombardi10 [402], Darby-DowmanLMZ97 [164]	OujanaAYB22 [494], ZhangBB22 [668], TangB20 [583], ZouZ20 [679], YounespourAKE19 [655], LaborieRSV18 [376], SimoninAHL15 [565], SimoninAHL12 [564], SchuttFSW11 [550]
Constraints	table constraint	Lombardi10 [402], LombardiM10a [406], Baptiste02 [44], PapaB98 [500]	MarliereSPR23 [431], JelinekB16 [329], LombardiMRB10 [412]	PerezGSL23 [504], abs-2312-13682 [505], ArmstrongGOS21 [26], CauwelaertLS18 [142], Siala15a [562], Siala15 [561], GayHS15 [232], PesantRR15 [506], MelgarejoLS15 [11], LimtanyakulS12 [397], BeniniLMR11 [90], BeckFW11 [66], HermenierDL11 [304], LopesCSM10 [413], MouraSCL08 [455], GodardLN05 [247], Laborie03 [373], ElkhyariGJ02 [198]

7.4 Concept Type ProgLanguages

Table 14: Works for Concepts of Type ProgLanguages

Type	Keyword	High	Medium	Low
ProgLanguages	C	KoehlerBFFHPSSS21 [352]		EmdeZD22 [200], HubnerGSV21 [322], ThomasKS20 [596], BogaerdtW19 [617], HoYCLLCLC18 [307], TangLWSK18 [584], LaborieRSV18 [376], LombardiMRB10 [412], Lombardi10 [402], LombardiM10a [406], Laborie09 [374], GarridoOS08 [230], Layfield02 [384]
ProgLanguages	C++	Pape94 [498]	BourreauGGLT22 [119], Demassey03 [176]	BonninMNE24 [114], TardivoDFMP23 [585], JuvinHHL23 [332], ColT22 [161], NaderiBZ22a [461], PopovicCGNC22 [512], QinWSLS21 [519], AbreuAPNM21 [167], Lemos21 [385], Astrand21 [35], AntuoriHHEN21 [22], Mercier-AubinGQ20 [442], Polo-MejiaALB20 [511], AstrandJZ20 [38], RoshanaeiBAUB20 [531], Caballero19 [127], abs-1902-01193 [14], LaborieRSV18 [376], TranPZLDB18 [607], ArbaouiY18 [24], NattafAL17 [468], GomesM17 [258], Nattaf16 [466], Tesch16 [592], BoothNB16 [115], Bonfietti16 [106], NattafALR16 [469], Fahimi16 [206], NattafAL15 [467]... (Total: 73)
ProgLanguages	Java	abs-2102-08778 [156], Malapert11 [424]	Froger16 [224], Wolf11 [648], KuchcinskiW03 [370]	AlfieriGPS23 [15], KameugneFND23 [340], abs-2306-05747 [587], TasselGS23 [586], MullerMKP22 [456], FetgoD22 [215], ColT22 [161], Teppan22 [589], YuraszeckMPV22 [660], OuelletQ22 [493], Lemos21 [385], Groleaz21 [264], FanXG21 [211], AntuoriHHEN21 [22], ArmstrongGOS21 [26], CauwelaertDS20 [143], MejiaY20 [436], SacramentoSP20 [536], ThomasKS20 [596], TangB20 [583], BarzegaranZP20 [61], FrohnerTR19 [225], Tom19 [599], ColT19 [157], GeibingerMM19 [238], abs-1911-04766 [237], GombolayWS18 [256], KameugneFGOQ18 [339], CauwelaertLS18 [142]... (Total: 59)
ProgLanguages	Julia			HebrardALLCMR22 [289], ElciOH22 [196], Groleaz21 [264], Astrand21 [35], CatusseCBL16 [140]
ProgLanguages	Lisp	Pape94 [498]		Wallace96 [635]
ProgLanguages	Prolog	ArmstrongGOS21 [26], Simonis99 [568], LammaMM97 [381], FalaschiGMP97 [209], Zhou97 [673], Wallace96 [635], Touraivane95 [603], Simonis95a [566], Simonis95 [567], DincbasSH90 [185]	BadicaBI20 [39], MossigeGSMC17 [453], Madi-WambaLOBM17 [422], Malapert11 [424], MartinPY01 [432], SimonisCK00 [570], RodosekW98 [526], Zhou96 [672], SimonisC95 [571], BeldiceanuC94 [78], AggounB93 [9]	PopovicCGNC22 [512], ArmstrongGOS22 [27], ZarandiASC20 [664], YangSS19 [654], abs-1902-01193 [14], CauwelaertLS18 [142], German18 [242], JelinekB16 [329], LetortCB15 [389], Kameugne14 [337], LetortCB13 [388], Letort13 [386], Clercq12 [170], LetortBC12 [387], Schutt11 [544], TrojetHL11 [612], BeldiceanuCDP11 [80], Menana11 [437], BartakCS10 [56], AronssonBK09 [29], BeldiceanuCP08 [81], KrogtLPHJ07 [618], Simonis07 [569], QuSN06 [521], Geske05 [243], PoderBS04 [509], Baptiste02 [44], Bartak02 [54], BeldiceanuC02 [79]... (Total: 38)
ProgLanguages	Python	KoehlerBFFHPSSS21 [352]	ForbesHJST24 [218], Fatemi-AnarakiTFV23 [213], GuoZ23 [272], abs-2211-14492 [576], AbreuN22 [168], AbreuAPNM21 [167], LaborieRSV18 [376]	AbreuPNF23 [3], EfthymiouY23 [195], AbreuNP23 [169], KimCMLLP23 [349], NaderiRR23 [465], SquillaciPR23 [574], Mehdizadeh-Somarin23 [435], MontemanniD23 [452], PovedaAA23 [514], MontemanniD23a [451], AkramNHRSA23 [13], MullerMKP22 [456], ZhangBB22 [668], FetgoD22 [215], PohlAK22 [510], EtminaniesfahaniGNMS22 [203], LuoB22 [420], CampeauG22 [129], FanXG21 [211], HanenKP21 [281], BenderWS21 [84], KlankeBYE21 [350], Lemos21 [385], AbohashimaEG21 [2], Lunardi20 [418], LunardiBLRV20 [417], GokGSTO20 [251], Mercier-AubinGQ20 [442], FrimodigS19 [223]... (Total: 40)

7.5 Concept Type CPSystems

Table 15: Works for Concepts of Type CPSystems

Type	Keyword	High	Medium	Low
CPSystems	CHIP	TrojetHL11 [612], Simonis07 [569], SimonisCK00 [570], Simonis99 [568], GruianK98 [267], Wallace96 [635], Simonis95 [567], Goltz95 [255], SimonisC95 [571], Simonis95a [566], BeldiceanuC94 [78], AggounB93 [9], DincbasSH90 [185]	ArmstrongGOS21 [26], YangSS19 [654], LaborieRSV18 [376], HookerH17 [318], Geske05 [243], PoderBS04 [509], Timpe02 [598], Beck99 [62], RodosekW98 [526], Zhou97 [673], LammaMM97 [381]	PrataAN23 [517], TardivoDFMP23 [585], KameugneFND23 [340], LuoB22 [420], FetgoD22 [215], BourreauGGLT22 [119], PopovicCGNC22 [512], KlankeBYE21 [350], Godet21a [248], GodetLHS20 [249], Caballero19 [127], abs-1902-01193 [14], GoldwaserS18 [254], BaptisteB18 [46], KameugneFGOQ18 [339], CauwelaertLS18 [142], GokgurHO18 [252], MossigeGSMC17 [453], Pralet17 [515], KreterSS17 [367], FontaineMH16 [217], Madi-WambaB16 [421], Dejemeppe16 [173], Fahimi16 [206], ZhouGL15 [674], LetortCB15 [389], Siala15a [562], SimoninAHL15 [565], Siala15 [561]... (Total: 80)
CPSystems	CPO	LacknerMMWW23 [378], JuvinHHL23 [332], Bit-Monnot23 [96], CzerniachowskaWZ23 [160], NaderiRR23 [465], JuvinHL23a [335], WinterMMW22 [645], ZhangBB22 [668], ColT22 [161], NaderiBZ22 [462], LacknerMMWW21 [377], Zahout21 [662], Groleaz21 [264], ArmstrongGOS21 [26], ThomasKS20 [596], Lunardi20 [418], NattafM20 [472], GroleazNS20 [266], Polo-MejiaALB20 [511], GroleazNS20a [265], SacramentoSP20 [536], GeibingerMM19 [238], ColT19 [157], MalapertN19 [427], CappartTSR18 [131], LaborieRSV18 [376], KreterSS17 [367], GoelSHFS15 [250], PraletLJ15 [516]... (Total: 31)	AalianPG23 [1], JuvinHL22 [333], abs-1911-04766 [237], Dejemeppe16 [173], GrimesH15 [261], NuijtenA96 [485], NuijtenA94 [483]	JuvinHL23 [334], PovedaAA23 [514], NaderiBZ22a [461], OujanaAYB22 [494], GeibingerMM21 [239], abs-2102-08778 [156], TangB20 [583], Caballero19 [127], Ham18a [278], Laborie18a [375], Pralet17 [515], VilimLS15 [631], BartakSR10 [58], Vilim09 [626], GarridoAO09 [229], GarridoOS08 [230], BeldiceanuC94 [78]
CPSystems	Choco Solver	TasselGS23 [586], abs-2306-05747 [587], Godet21a [248], German18 [242], Fahimi16 [206], LetortCB15 [389], Derrien15 [179], LetortCB13 [388], Letort13 [386], OuelletQ13 [491], LetortBC12 [387], Malapert11 [424], Menana11 [437], abs-0907-0939 [507], GrimesHM09 [262], GarridoAO09 [229], GarridoOS08 [230], Elkhyari03 [197]	KameugneFND23 [340], MullerMKP22 [456], FetgoD22 [215], AntuoriHHEN21 [22], AntuoriHHEN20 [21], LiuLH19 [399], FahimiOQ18 [207], KameugneFGOQ18 [339], LaborieRSV18 [376], Froger16 [224], GayHS15 [232], KoschB14 [357], Kameugne14 [337], DerrienP14 [180], DerrienPZ14 [181], MalapertCGJLR12 [425], Clercq12 [170], ClercqPBJ11 [152], HermenierDL11 [304]	BourreauGGLT22 [119], OuelletQ22 [493], Groleaz21 [264], GodetLHS20 [249], YangSS19 [654], OuelletQ18 [492], GingrasQ16 [246], AmadiniGM16 [17], Madi-WambaB16 [421], MurphyMB15 [458], EvenSH15 [204], GrimesH15 [261], EvenSH15a [205], BessiereHMQW14 [93], MalapertCGJLR13 [426], SimonisH11 [572], BartakSR10 [58], RossiTHP07 [534], CorreaLR07 [159], Baptiste02 [44]
CPSystems	Chuffed	LacknerMMWW23 [378], PovedaAA23 [514], BoudreaultSLQ22 [118], MullerMKP22 [456], LacknerMMWW21 [377], GeibingerMM21 [239], Godet21a [248], KoehlerBFFHPSSS21 [352], ArmstrongGOS21 [26], WallaceY20 [637], GodetLHS20 [249], abs-1911-04766 [237], KreterSSZ18 [368], YoungFS17 [656], KreterSS17 [367], SzerediS16 [580], KreterSS15 [366]	GoldwaserS18 [254]	Caballero19 [127], SchuttS16 [553]
CPSystems	Claire	Nattaf16 [466], Siala15a [562], Siala15 [561], Malapert11 [424], Demassey03 [176], Elkhyari03 [197], BaptisteP00 [49]	Zahout21 [662], Menana11 [437], BaptisteP97 [48]	HebrardALLCMR22 [289], Godet21a [248], HanenKP21 [281], Derrien15 [179], Kameugne14 [337], Letort13 [386], Baptiste02 [44], PapaB98 [500]

Table 15: Works for Concepts of Type CPSystems

Type	Keyword	High	Medium	Low
CPSystems	Cplex	GuoZ23 [272], AfsarVPG23 [8], ZhuSZW23 [676], Adelgren2023 [7], CzerniachowskaWZ23 [160], NaderiRR23 [465], NaderiBZ22 [462], ElciOH22 [196], BourreauGGLT22 [119], OrnekOS20 [490], WinterMMW22 [645], SubulanC22 [575], EtminaniesfahaniGNMS22 [203], EmdeZD22 [200], MullerMKP22 [456], HamPK21 [279], HubnerGSV21 [322], GeibingerKKMMW21 [236], KoehlerBFFHPSSS21 [352], PandeyS21a [497], Bedhief21 [74], Lemos21 [385], Groleaz21 [264], SacramentoSP20 [536], MejiaY20 [436], LunardiBLRV20 [417], RoshanaeiBAUB20 [531], QinDCS20 [520], ZouZ20 [679]... (Total: 55)	BonninMNE24 [114], Fatemi-AnarakiTFV23 [213], LacknerMMWW23 [378], Mehdizadeh-Somarin23 [435], AbreuNP23 [169], MarliereSPR23 [431], IsikYA23 [325], CampeauG22 [129], LuoB22 [420], TouatBT22 [602], NaderiBZ22a [461], YunusogluY22 [658], ColT22 [161], LacknerMMWW21 [377], Zahout21 [662], KovacsTKSG21 [365], QinWSLS21 [519], ArmstrongGOS21 [26], MokhtarzadehTNF20 [448], HauderBRPA20 [287], NattafM20 [472], WallaceY20 [637], MalapertN19 [427], NattafHKAL19 [471], abs-1902-09244 [286], Novas19 [479], Ham18a [278], German18 [242], GomesM17 [258]... (Total: 62)	JuvinHL23a [335], AlfieriGPS23 [15], JuvinHL23 [334], AbreuPNF23 [3], PovedaAA23 [514], PenzDN23 [503], AalianPG23 [1], SquillaciPR23 [574], GurPAE23 [273], YuraszeckMCCR23 [661], JuvinHL22 [333], PohlAK22 [510], AbreuN22 [168], abs-2211-14492 [576], FarsiTM22 [212], YuraszeckMPV22 [660], PopovicCGNC22 [512], ZhangYW21 [669], abs-2102-08778 [156], GeibingerMM21 [239], FanXG21 [211], Astrand21 [35], VlkHT21 [633], ArtiguesHQT21 [32], KlankeBYE21 [350], AbreuAPNM21 [167], Polo-MejiaALB20 [511], TangB20 [583], ThomasKS20 [596]... (Total: 116)
CPSystems	ECLiPSe	BadicaBI20 [39], BadicaBIL19 [40], RodosekW98 [526]	Kameugne14 [337], SchuttFSW11 [550], Malapert11 [424], Schutt11 [544], MilanoW09 [446], LiW08 [390], MilanoW06 [445], Wallace06 [636], KanetAG04 [343], KamarainenS02 [336], Simonis99 [568], Darby-DowmanLMZ97 [164], Wallace96 [635]	FanXG21 [211], MejiaY20 [436], WikarekS19 [644], HookerH17 [318], HarjunkoskiMBC14 [283], Clercq12 [170], ZeballosQH10 [666], LombardiMRB10 [412], SchuttFSW09 [548], BeniniBGM06 [88], ChuX05 [149], QuirogaZH05 [522], HarjunkoskiG02 [282], Baptiste02 [44], MartinPY01 [432], JainG01 [327], LammaMM97 [381]
CPSystems	Gecode	TardivoDFMP23 [585], Astrand21 [35], GokGSTO20 [251], BadicaBI20 [39], AstrandJZ20 [38], BadicaBIL19 [40], Fahimi16 [206], SzerediS16 [580], ZhouGL15 [674], GayHS15 [232], Kameugne14 [337], KameugneFSN14 [342], OhrimenkoSC09 [488]	MullerMKP22 [456], AntuoriHHEN21 [22], Groleaz21 [264], GeibingerKKMMW21 [236], Astrand0F21 [36], GeibingerMM19 [238], FrohnerTR19 [225], abs-1911-04766 [237], LaborieRSV18 [376], BurtLPS15 [125], BofillEGPSV14 [104], Malapert11 [424], KovacsK11 [362], KameugneFSN11 [341], ThiruvadyBME09 [594]	ArmstrongGOS21 [26], WessenCS20 [643], WallaceY20 [637], MengZRZL20 [440], YangSS19 [654], FrimodigS19 [223], MusliuSS18 [460], GoldwaserS18 [254], CauwelaertLS18 [142], AstrandJZ18 [37], GoldwaserS17 [253], Dejemeppe16 [173], AmadiniGM16 [17], PesantRR15 [506], HarjunkoskiMBC14 [283], LombardiMB13 [411], Clercq12 [170], MonetteDD07 [449]
CPSystems	Gurobi	WangB23 [639], Adelgren2023 [7], LacknerMMW23 [378], NaderiRR23 [465], WinterMMW22 [645], ZhangBB22 [668], LacknerMMWW21 [377], Lemos21 [385], KovacsTKSG21 [365], GeibingerKKMMW21 [236], KoehlerBFFHPSSS21 [352], WangB20 [638], GokGSTO20 [251], WallaceY20 [637], FrohnerTR19 [225], MusliuSS18 [460], GombolayWS18 [256], RoshanaeiLAU17 [532], KuB16 [369]	ForbesHJST24 [218], GuoZ23 [272], Groleaz21 [264], VlkHT21 [633], GoldwaserS18 [254], GoldwaserS17 [253], FontaineMH16 [217], Froger16 [224]	abs-2305-19888 [300], KimCMLLP23 [349], MontemanniD23 [452], HeinzNVH22 [299], PohlAK22 [510], AbohashimaEG21 [2], HubnerGSV21 [322], FanXG21 [211], KlankeBYE21 [350], BenediktMH20 [86], MengZRZL20 [440], He0GLW18 [288], DemirovicS18 [178], BenediktSMVH18 [87], TranAB16 [604], AmadiniGM16 [17], BurtLPS15 [125], PesantRR15 [506], HarjunkoskiMBC14 [283]
CPSystems	Ilog Scheduler	GrimesH11 [260], Malapert11 [424], ZeballosQH10 [666], Laborie03 [373]	LaborieRSV18 [376], LimtanyakulS12 [397], NovasH12 [481], HeinzB12 [294], HeckmanB11 [293], BeckFW11 [66], GrimesHM09 [262], RodriguezS09 [530], WatsonB08 [642], Rodriguez07b [528], ZeballosH05 [665], BeckR03 [70], JainG01 [327], Beck99 [62], NuijtenP98 [484]	Laborie18a [375], KuB16 [369], SchuttS16 [553], Fahimi16 [206], TranWDRFOVB16 [611], GrimesH15 [261], TerekhovTDB14 [591], NovasH14 [482], TerekhovDOB12 [590], Schutt11 [544], BeniniLMR11 [90], KovacsB11 [360], SchuttFSW11 [550], LahimerLH11 [379], HachemiGR11 [276], OzturkTHO10 [495], LopesCSM10 [413], abs-1009-0347 [549], ChenGPSH10 [147], NovasH10 [480], CarchraeB09 [132], RuggieroBBMA09 [535], BidotVLB09 [94], Vilim09a [627], MouraSCL08a [454], MouraSCL08 [455], BeniniLMR08 [89], KovacsB08 [359], HoeveGSL07 [619]... (Total: 58)

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Type	Keyword	High	Medium	Low
CPSystems	Ilog Solver		GrimesH11 [260], ZeballosQH10 [666], LiW08 [390], SchausD08 [540], HarjunkoskiG02 [282], JainG01 [327]	abs-1902-01193 [14], LaborieRSV18 [376], HookerH17 [318], Dejemeppe16 [173], ZarandiKS16 [663], PesantRR15 [506], Siala15 [561], Siala15a [562], BonfiettiLBM14 [109], NovasH14 [482], OzturkTHO13 [496], LombardiMB13 [411], HeinzB12 [294], BonfiettiLBM12 [108], NovasH12 [481], TerekhovDOB12 [590], LombardiM12a [408], BajestaniB11 [41], KovacsK11 [362], KovacsB11 [360], BandaSC11 [171], KelbelH11 [345], BonfiettiLBM11 [107], TopalogluO11 [600], Schutt11 [544], OzturkTHO10 [495], LombardiM10 [407], abs-1009-0347 [549], LopesCSM10 [413]... (Total: 64)
CPSystems	MiniZinc	LacknerMMWW23 [378], TardivoDFMP23 [585], BoudreaultSLQ22 [118], MullerMKP22 [456], JungblutK22 [331], ColT22 [161], KoehlerBFFHPSSS21 [352], LacknerMMWW21 [377], ArmstrongGOS21 [26], Mercier-AubinGQ20 [442], WallaceY20 [637], abs-1911-04766 [237], FrohnerTR19 [225], GeibingerMM19 [238], ColT19 [157], HookerH17 [318], YoungFS17 [656], LiuCGM17 [400], AmadiniGM16 [17], SzerediS16 [580], BofillEGPSV14 [104], KelarevaTK13 [344]	PovedaAA23 [514], Godet21a [248], GokGSTO20 [251], MusliuSS18 [460], KreterSS17 [367], KreterSS15 [366]	Bit-Monnot23 [96], OuelletQ22 [493], GeibingerKKMMW21 [236], abs-2102-08778 [156], FrimodigS19 [223], abs-1901-07914 [77], Hooker19 [316], Caballero19 [127], BehrensLM19 [76], KreterSSZ18 [368], DemirovicS18 [178], CappartTSR18 [131], TranVNB17 [609], FontaineMH16 [217], SchuttS16 [553], BurtLPS15 [125], HeinzSB13 [298], SchuttFS13 [547]
CPSystems	Mistral	JuvinHHL23 [332], Siala15 [561], Siala15a [562], Malapert11 [424], GrimesHM09 [262]	Bit-Monnot23 [96], Kameugne14 [337], BillautHL12 [95]	GrimesH15 [261], SialaAH15 [563]
CPSystems	OPL	LacknerMMWW23 [378], GuoZ23 [272], YunusogluY22 [658], MullerMKP22 [456], TouatBT22 [602], ColT22 [161], LacknerMMWW21 [377], PandeyS21a [497], KoehlerBFFHPSSS21 [352], QinDCS20 [520], Novas19 [479], EscobetPQPRA19 [202], LaborieRSV18 [376], TangLWSK18 [584], NovaraNH16 [478], Dejemeppe16 [173], AlesioNBG14 [182], LouieVNB14 [416], NovasH12 [481], HachemiGR11 [276], ZeballosQH10 [666], Laborie09 [374], LiW08 [390], KhayatLR06 [347], KanetAG04 [343], JainG01 [327], AggounB93 [9]	SubulanC22 [575], Teppan22 [589], ZarandiASC20 [664], Mercier-AubinGQ20 [442], ZouZ20 [679], MurinR19 [457], Laborie18a [375], CappartTSR18 [131], HookerH17 [318], OrnekO16 [489], LimBTBB15 [395], WangMD15 [640], EvenSH15a [205], HarjunkoskiMBC14 [283], NovasH14 [482], OzturkTHO13 [496], SerraNM12 [556], HeinzB12 [294], EdisO11 [192], ZibranR11a [678], KelbelH11 [345], Menana11 [437], TopalogluO11 [600], OzturkTHO10 [495], NovasH10 [480], MilanoW09 [446], Wolf09 [650], Simonis07 [569], GarganiR07 [228]... (Total: 44)	abs-2402-00459 [474], ForbesHJST24 [218], EfthymiouY23 [195], YuraszeckMCCR23 [661], AbreuPNF23 [3], abs-2312-13682 [505], GurPAE23 [273], CzerniachowskaWZ23 [160], MontemanniD23 [452], IsikYA23 [325], Fatemi-AnarakiTFV23 [213], GokPTGO23 [275], PerezGSL23 [504], AbreuNP23 [169], ArmstrongGOS22 [27], ZhangBB22 [668], BoudreaultSLQ22 [118], GeitzGSSW22 [240], OujanaAYB22 [494], LiFJZLL22 [391], Lemos21 [385], VlkHT21 [633], Bedhief21 [74], HamPK21 [279], QinWSLS21 [519], Groleaz21 [264], Godet21a [248], Astrand21 [35], abs-2102-08778 [156]... (Total: 113)
CPSystems	OR-Tools	abs-2402-00459 [474], LacknerMMWW23 [378], ColT22 [161], MullerMKP22 [456], abs-2211-14492 [576], KoehlerBFFHPSSS21 [352], Groleaz21 [264], abs-2102-08778 [156], KovacsTKSG21 [365], LacknerMMWW21 [377], FallahiAC20 [210], ColT19 [157], GayHS15 [232]	EfthymiouY23 [195], BoudreaultSLQ22 [118], Godet21a [248], GeibingerKKMMW21 [236], BarzegaranZP20 [61], ThomasKS20 [596], LiuCGM17 [400], Dejemeppe16 [173]	Bit-Monnot23 [96], KimCMLLP23 [349], MontemanniD23 [452], AkramNHRSA23 [13], MontemanniD23a [451], EtminaniesfahaniGNMS22 [203], Teppan22 [589], KlankeBYE21 [350], MengZRZL20 [440], GroleazNS20 [266], GalleguillosKSB19 [227], BehrensLM19 [76], abs-1901-07914 [77], YangSS19 [654], PourDERB18 [513], BonfiettiZLM16 [113], AmadiniGM16 [17], ZhouGL15 [674], LombardiMB13 [411], LombardiM12 [409]
CPSystems	OZ	Layfield02 [384]	MaraveliasG04 [430], BeldiceanuC94 [78]	Froger16 [224], KorbaaYG99 [355]
CPSystems	SCIP	Caballero19 [127], KuB16 [369], SchnellH15 [543], HeinzSB13 [298], HeinzB12 [294], MilanoW09 [446]	HookerH17 [318], BofillCSV17 [103], TranAB16 [604], BofillEGPSV14 [104], SchuttFS13a [546], HeinzKB13 [295], CireCH13 [150]	GuoZ23 [272], NaderiRR23 [465], Groleaz21 [264], WikarekS19 [644], SzerediS16 [580], HarjunkoskiMBC14 [283], KelarevaTK13 [344], HeinzS11 [297], Schutt11 [544], BertholdHLMS10 [92]

Table 15: Works for Concepts of Type CPSystems

Type	Keyword	High	Medium	Low
CPSystems	SICStus	ArmstrongGOS21 [26], LetortCB15 [389], Letort13 [386], LetortCB13 [388], LetortBC12 [387]	MossigeGSMC17 [453], Kameugne14 [337], Schutt11 [544], Malapert11 [424], SchuttFSW11 [550], QuSN06 [521]	PopovicCGNC22 [512], ArmstrongGOS22 [27], YangSS19 [654], German18 [242], Madi-WambaLOBM17 [422], JelinekB16 [329], Clercq12 [170], BeldiceanuCDP11 [80], TrojetHL11 [612], BartakCS10 [56], Wolf09 [650], SchuttFSW09 [548], BeldiceanuCP08 [81], Geske05 [243], Bartak02 [54], BeldiceanuC02 [79], Simonis99 [568]
CPSystems	Z3	KoehlerBFFHPSSS21 [352], GokGSTO20 [251], YounespourAKE19 [655], Menana11 [437], SureshMOK06 [578]	NaderiRR23 [465], VlkHT21 [633], ArkhipovBL19 [25], WikarekS19 [644], German18 [242], Baptiste02 [44], Zhou97 [673]	Groleaz21 [264], Caballero19 [127], ZhangW18 [670], BofillCSV17 [103], BertholdHLMS10 [92], Rodriguez07 [527], Rodriguez07b [528], Wallace06 [636], Layfield02 [384], Zhou96 [672]

7.6 Concept Type ApplicationAreas

Table 16: Works for Concepts of Type ApplicationAreas

Type	Keyword	High	Medium	Low
ApplicationAreas	COVID	GuoZ23 [272]	GeibingerKKMMW21 [236]	BonninMNE24 [114], Mehdizadeh-Somarin23 [435], JuvinHL23a [335], Fatemi-AnarakiTFV23 [213], GurPAE23 [273], OujanaAYB22 [494], Lemos21 [385]
ApplicationAreas	HVAC	LimHTB16 [394], LimBTBB15 [395], GrimesIOS14 [263]		
ApplicationAreas	agriculture			AkramNHRSA23 [13], BenderWS21 [84], Astrand0F21 [36], HamPK21 [279], Astrand21 [35], QinWSLS21 [519], MejiaY20 [436]
ApplicationAreas	aircraft	GokPTGO23 [275], PohlAK22 [510], OrnekOS20 [490], WangB20 [638], GokGSTO20 [251], TranDRFWOVB16 [606], Fahimi16 [206], BajestaniB13 [42], LombardiM12 [409], BajestaniB11 [41], ArtiouchineB05 [34], FrankK05 [221], Simonis99 [568]	WangB23 [639], GombolayWS18 [256], Ham18 [277], Simonis07 [569], SakkoutW00 [539], Simonis95a [566]	PrataAN23 [517], PovedaAA23 [514], Adelgren2023 [7], ElciOH22 [196], EtminaniesfahaniGNMS22 [203], ZarandiASC20 [664], HauderBRPA20 [287], abs-1902-09244 [286], Hooker19 [316], LaborieRSV18 [376], HookerH17 [318], TranAB16 [604], Lombardi10 [402], Laborie09 [374], KovacsB08 [359], KrogtLPHJ07 [618], MartinPY01 [432], SimonisCK00 [570], GruianK98 [267], Darby-DowmanLMZ97 [164], Wallace96 [635], Simonis95 [567], SimonisC95 [571]
ApplicationAreas	astronomy		FrankK05 [221]	CatusseCBL16 [140], LiW08 [390]
ApplicationAreas	automotive		GuoZ23 [272], YuraszeckMPV22 [660], EmdeZD22 [200], Groleaz21 [264], LimtanyakulS12 [397], SunLYL10 [577], Lombardi10 [402], BarlattCG08 [52], SchildW00 [542]	PovedaAA23 [514], CzerniachowskaWZ23 [160], NaderiRR23 [465], NaderiBZ22 [462], NaderiBZ22a [461], AntuoriHHEN21 [22], HubnerGSV21 [322], VlkHT21 [633], AbreuAPNM21 [167], KoehlerBFFHPSSS21 [352], BarzegaranZP20 [61], abs-1911-04766 [237], GeibingerMM19 [238], BonfiettiZLM16 [113], Siala15 [561], Siala15a [562], SchnellH15 [543], AlesioNBG14 [182], HarjunkoskiMBC14 [283], BeniniBGM06 [88], KovacsV06 [364], Wallace96 [635]
ApplicationAreas	business process	BadicaBI20 [39], Lombardi10 [402], LombardiM10a [406]		SubulanC22 [575], Groleaz21 [264], Zahout21 [662], ZarandiASC20 [664], BadicaBIL19 [40], Jans09 [328], Simonis07 [569], SimonisCK00 [570], Simonis99 [568], BeckF98 [67], Simonis95a [566]
ApplicationAreas	cable tree	KoehlerBFFHPSSS21 [352]		
ApplicationAreas	car manufacturing		AntuoriHHEN21 [22]	BeldiceanuC94 [78]
ApplicationAreas	container terminal	QinDCS20 [520], SacramentoSP20 [536]	LaborieRSV18 [376]	abs-2312-13682 [505], PerezGSL23 [504], TouatBT22 [602], CauwelaertDS20 [143], WallaceY20 [637], ZarandiASC20 [664], FallahiAC20 [210], Hooker19 [316], CauwelaertDMS16 [141], Dejemeppe16 [173], DejemeppeCS15 [174], NovasH12 [481], CorreaLR07 [159], LimRX04 [393]
ApplicationAreas	crew-scheduling	ZarandiASC20 [664], PourDERB18 [513]	BourreauGGLT22 [119], Zahout21 [662], GombolayWS18 [256], Mason01 [434], Touraivane95 [603]	NaderiRR23 [465], WangB23 [639], Adelgren2023 [7], NaderiBZ22a [461], NaderiBZ22 [462], ElciOH22 [196], EtminaniesfahaniGNMS22 [203], HeinzNVH22 [299], Lemos21 [385], MokhtarzadehTNF20 [448], TangLWSK18 [584], HookerH17 [318], DoulabiRP16 [191], LipovetzkyBPS14 [398], HachemiGR11 [276], MilanoW09 [446], WuBB09 [653], MilanoW06 [445], BeldiceanuC02 [79], JainG01 [327], SimonisCK00 [570]
ApplicationAreas	dairies			Bartak02 [54], Bartak02a [53]
ApplicationAreas	dairy	EscobetPQPRA19 [202]	PrataAN23 [517], HarjunkoskiMBC14 [283]	Groleaz21 [264]
ApplicationAreas	datacenter	HermenierDL11 [304]		Zahout21 [662], GalleguillosKSB19 [227], Madi-WambaLOBM17 [422], Letort13 [386], IfrimOS12 [324], LetortBC12 [387]
ApplicationAreas	datacentre		HurleyOS16 [323]	

Type	Keyword	High	Medium	Low
ApplicationAreas	day-ahead market			
ApplicationAreas	deep space			HebrardALLCMR22 [289]
ApplicationAreas	drone	MontemanniD23a [451], MontemanniD23 [452], Ham18 [277]		Adelgren2023 [7], ShaikhK23 [557], GuoZ23 [272], JuvinHL23a [335], EmdeZD22 [200], Astrand21 [35], Astrand0F21 [36], AntuoriHHEN21 [22], ZarandiASC20 [664], Ham18a [278]
ApplicationAreas	earth observation	SquillaciPR23 [574], KucukY19 [372], VerfaillieL01 [621]	BensanaLV99 [91]	HebrardHJMPV16 [290], PraletLJ15 [516], SimoninAHL15 [565], KelarevaTK13 [344], OddiPCC03 [487]
ApplicationAreas	earth orbit			SquillaciPR23 [574]
ApplicationAreas	electroplating		RodosekW98 [526]	Fatemi-AnarakiTFV23 [213], EfthymiouY23 [195], WallaceY20 [637], NovasH12 [481]
ApplicationAreas	emergency service		EvenSH15a [205], TopalogluO11 [600]	ForbesHJST24 [218], EvenSH15 [204], SakkoutW00 [539]
ApplicationAreas	energy-price	GrimesIOS14 [263], IfrimOS12 [324]	HurleyOS16 [323], Froger16 [224]	PrataAN23 [517], EscobetPQPRA19 [202], He0GLW18 [288], BenediktSMVH18 [87], LimHTB16 [394]
ApplicationAreas	evacuation	ArtiguesHQT21 [32], ZarandiASC20 [664], YangSS19 [654], EvenSH15 [204], EvenSH15a [205]		Beck99 [62]
ApplicationAreas	farming			WinterMMW22 [645], Astrand0F21 [36]
ApplicationAreas	forestry	HachemiGR11 [276]		Astrand0F21 [36]
ApplicationAreas	high performance computing	BorghesiBLMB18 [116]	GalleguillosKSB19 [227]	abs-2305-19888 [300], HeinzNVH22 [299], Zahout21 [662], Lunardi20 [418], LunardiBLRV20 [417], RiahiNS018 [525], TranPZLDB18 [607], HurleyOS16 [323], BartoliniBBLM14 [60]
ApplicationAreas	high school timetabling	DemirovicS18 [178]		Lemos21 [385], BofillGSV15 [105], KanetAG04 [343], ElkhyariGJ02a [199]
ApplicationAreas	hoist	EfthymiouY23 [195], WallaceY20 [637], RodosekW98 [526]	Fatemi-AnarakiTFV23 [213], NovasH12 [481], BonfiettiLBM11 [107]	AstrandJZ18 [37], BonfiettiLBM14 [109], BonfiettiM12 [112], BonfiettiLBM12 [108], LombardiBMB11 [404], Wallace06 [636], BeckR03 [70], Baptiste02 [44], KorbaaYG99 [355], PapaB98 [500]
ApplicationAreas	maintenance scheduling	PopovicCGNC22 [512], Froger16 [224], BajestaniB13 [42], Malapert11 [424]	PenzDN23 [503], AntunesABD20 [20], BajestaniB11 [41], Davenport10 [165], FrostD98 [226]	BourreauGGLT22 [119], Godet21a [248], ZarandiASC20 [664], Hooker19 [316], PourDERB18 [513], AntunesABD18 [19], Nattaf16 [466], BajestaniB15 [43], Simonis99 [568], Puget95 [518], SimonisC95 [571]
ApplicationAreas	medical	ShinBBHO18 [560], Dejemeppe16 [173], WangMD15 [640], Wolf11 [648], TopalogluO11 [600]	GuoZ23 [272], ZarandiASC20 [664], HechingH16 [292], DejemeppeD14 [175], RendlPHPR12 [524]	ShaikhK23 [557], AbreuPNF23 [3], IsikYA23 [325], AbreuNP23 [169], AkramNHRSA23 [13], YunusogluY22 [658], FarsiTM22 [212], AbreuN22 [168], GeibingerKKMMW21 [236], Bedhief21 [74], Lemos21 [385], AbreuAPNM21 [167], ThomasKS20 [596], FallahiAC20 [210], FrimodigS19 [223], abs-1902-01193 [14], Novas19 [479], GurEA19 [682], YounespourAKE19 [655], CappartTSR18 [131], HoYCLLCLC18 [307], TanT18 [582], GedikKEK18 [235], TranVNB17a [610], RoshanaeiLAU17 [532], TranVNB17 [609], DoulabiRP16 [191], BridiBLMB16 [121], BoothNB16 [115]... (Total: 36)
ApplicationAreas	meeting scheduling	GelainPRVW17 [241], LimHTB16 [394], LimBTBB15 [395], PesantRR15 [506], ZhuS02 [675]	BofillEGPSV14 [104]	Lemos21 [385], BofillGSV15 [105], MurphyMB15 [458], BartakSR10 [58], MoffittPP05 [447]
ApplicationAreas	music festival	CohenHB17 [155]		
ApplicationAreas	nurse	GurPAE23 [273], FarsiTM22 [212], ZarandiASC20 [664], abs-1902-01193 [14], ShinBBHO18 [560], HoYCLLCLC18 [307], LuoVLBM16 [419], WangMD15 [640], RendlPHPR12 [524], Menana11 [437], Wolf11 [648], Simonis07 [569], Mason01 [434]	OuelletQ22 [493], GeibingerKKMMW21 [236], GeibingerMM21 [239], YounespourAKE19 [655], FrohnerTR19 [225], RoshanaeiLAU17 [532]	abs-2312-13682 [505], PerezGSL23 [504], NaderiBZ22a [461], NaderiBZ22 [462], BourreauGGLT22 [119], FallahiAC20 [210], RoshanaeiBAUB20 [531], FrimodigS19 [223], German18 [242], GedikKEK18 [235], NishikawaSTT18a [476], MusliuSS18 [460], HookerH17 [318], Dejemeppe16 [173], DoulabiRP16 [191], DoulabiRP14 [190], TopalogluO11 [600], Simonis99 [568]
ApplicationAreas	offshore		SubulanC22 [575], Froger16 [224]	GokPTGO23 [275], BoudreaultSLQ22 [118], BlomPS16 [100], BlomBPS14 [99], Jans09 [328]

Type	Keyword	High	Medium	Low
ApplicationAreas	operating room	NaderiRR23 [465], GurPAE23 [273], FarsiTM22 [212], NaderiBZ22 [462], RoshanaeiBAUB20 [531], YounespourAKE19 [655], GurEA19 [682], RoshanaeiLAU17 [532], DoulabiRP16 [191], WangMD15 [640], DoulabiRP14 [190], Wolf11 [648]	GuoZ23 [272], NaderiBZ22a [461], ElciOH22 [196], ZarandiASC20 [664], Hooker19 [316], HookerH17 [318]	ForbesHJST24 [218], WangB23 [639], PerezGSL23 [504], abs-2312-13682 [505], JuvinHL23a [335], Adelgren2023 [7], GeibingerMM21 [239], TanT18 [582], MusliuSS18 [460], Wolf09 [650]
ApplicationAreas	oven scheduling	LacknerMMWW23 [378], LacknerMMWW21 [377]		ColT22 [161]
ApplicationAreas	patient	GurPAE23 [273], FarsiTM22 [212], RoshanaeiBAUB20 [531], ThomasKS20 [596], FrimodigS19 [223], GurEA19 [682], YounespourAKE19 [655], ShinBBHO18 [560], CappartTSR18 [131], RoshanaeiLAU17 [532], HechingH16 [292], Dejemeppe16 [173], DoulabiRP16 [191], WangMD15 [640], DejemeppeD14 [175], RendlPHPR12 [524], Wolf11 [648], TopalogluO11 [600]	GeibingerKKMMW21 [236]	BonninMNE24 [114], ForbesHJST24 [218], GuoZ23 [272], AlfieriGPS23 [15], NaderiBZ22 [462], ElciOH22 [196], AbreuAPNM21 [167], CauwelaertDS20 [143], MurinR19 [457], Hooker19 [316], HoYCLLCLC18 [307], TanT18 [582], GombolayWS18 [256], LouieVNB14 [416], DoulabiRP14 [190], Clercq12 [170], Malapert11 [424], Wolf09 [650], Simonis07 [569], KanetAG04 [343]
ApplicationAreas	perfect-square	BeldiceanuCDP11 [80], BeldiceanuCP08 [81], AggounB93 [9]		
ApplicationAreas	physician	GeibingerKKMMW21 [236], ShinBBHO18 [560]	Dejemeppe16 [173]	GurPAE23 [273], GuoZ23 [272], FarsiTM22 [212], FrimodigS19 [223], HookerH17 [318], WangMD15 [640], Wolf11 [648], TopalogluO11 [600]
ApplicationAreas	pipeline	HarjunkoskiMBC14 [283], BegB13 [75], LopesCSM10 [413], Lombardi10 [402], RuggieroBBMA09 [535], MouraSCL08a [454], Malik08 [428], MouraSCL08 [455], BeniniLMR08 [89], ErtlK91 [201]	ZouZ20 [679], TangLWSK18 [584], LombardiMRB10 [412], MalikMB08 [429], BeniniBGM06 [88], WolinskiKG04 [651], BeldiceanuC94 [78]	EfthymiouY23 [195], Adelgren2023 [7], PopovicCGNC22 [512], EmdeZD22 [200], HanenKP21 [281], NishikawaSTT19 [477], NishikawaSTT18a [476], LaborieRSV18 [376], NishikawaSTT18 [475], BlomPS16 [100], Bonfietti16 [106], GilesH16 [245], GoelSHFS15 [250], SimoninAHL15 [565], BonfiettiLBM14 [109], LombardiMB13 [411], BeniniLMR11 [90], NovasH10 [480], BarlattCG08 [52], KuchcinskiW03 [370], Wolf03 [646], Simonis99 [568], GruianK98 [267], Darby-DowmanLMZ97 [164], SimonisC95 [571], Simonis95a [566]
ApplicationAreas	radiation therapy	FrimodigS19 [223]		HookerH17 [318]
ApplicationAreas	railway	MarliereSPR23 [431], SvancaraB22 [579], Lemos21 [385], PourDERB18 [513], CappartS17 [130], Acuna-AgostMFG09 [5], AronssonBK09 [29], RodriguezS09 [530], Rodriguez07 [527], Rodriguez07b [528], Geske05 [243], RodriguezDG02 [529], MartinPY01 [432], LammaMM97 [381]	ZarandiASC20 [664], LaborieRSV18 [376], TangLWSK18 [584], Mason01 [434], BrusoniCLMMT96 [124]	GuoZ23 [272], LuoB22 [420], Godet21a [248], BogaerdtW19 [617], Hooker19 [316], BajestaniB15 [43], ZhouGL15 [674], BajestaniB13 [42], BajestaniB11 [41], WuBB09 [653], AbrilSB05 [4], Wallace96 [635]
ApplicationAreas	real-time pricing		He0GLW18 [288], GrimesIOS14 [263]	LimHTB16 [394]
ApplicationAreas	rectangle-packing	YangSS19 [654], AggounB93 [9]	LuoB22 [420], Malapert11 [424]	MossigeGSMC17 [453], DoulabiRP16 [191], Siala15 [561], VilimLS15 [631], Siala15a [562], BeldiceanuCDP11 [80], Schutt11 [544], SchuttW10 [554], BeldiceanuCP08 [81]

Type	Keyword	High	Medium	Low
ApplicationAreas	robot	Fatemi-AnarakiTFV23 [213], IsikYA23 [325], LiFJZLL22 [391], ArmstrongGOS21 [26], Astrand21 [35], KoehlerBFFHPSSS21 [352], ZarandiASC20 [664], MokhtarzadehTNF20 [448], Lunardi20 [418], WessenCS20 [643], MurinR19 [457], abs-1901-07914 [77], BehrensLM19 [76], GombolayWS18 [256], LaborieRSV18 [376], MossigeGSMC17 [453], TranVNB17 [609], TranVNB17a [610], BoothNB16 [115], LouieVNB14 [416], NovasH14 [482], NovasH12 [481], BartakSR10 [58], BidotVLB09 [94], ValleMGT03 [615], BeckF98 [67]	PrataAN23 [517], CzerniachowskaWZ23 [160], ZhuSZW23 [676], Mehdizadeh-Somarin23 [435], TouatBT22 [602], YunusogluY22 [658], NaderiBZ22a [461], OujanaAYB22 [494], Astrand0F21 [36], WallaceY20 [637], WikarekS19 [644], NishikawaSTT19 [477], NishikawaSTT18a [476], NishikawaSTT18 [475], Dejemeppe16 [173], VanczaM01 [620], BeckF00 [68], Beck99 [62]	abs-2305-19888 [300], AbreuPNF23 [3], MontemanniD23 [452], MarliereSPR23 [431], HeinzNVH22 [299], GeitzGSSW22 [240], FarsiTM22 [212], MullerMKP22 [456], ColT22 [161], YuraszeckMPV22 [660], HamPK21 [279], ZhangYW21 [669], Godet21a [248], Bedhief21 [74], Groleaz21 [264], VlkHT21 [633], FallahiAC20 [210], MengZRZL20 [440], BenediktMH20 [86], MejiaY20 [436], AstrandJZ20 [38], BarzegaranZP20 [61], Novas19 [479], ZhangW18 [670], GokgurHO18 [252], Ham18a [278], Ham18 [277], TanT18 [582], AstrandJZ18 [37]... (Total: 63)
ApplicationAreas	satellite	SquillaciPR23 [574], Godet21a [248], GodetLHS20 [249], KucukY19 [372], LaborieRSV18 [376], HebrardHJMPV16 [290], PraletLJ15 [516], KelarevaTK13 [344], VerfaillieL01 [621], BensanaLV99 [91], PembertonG98 [502]	Laborie09 [374], FrankK05 [221]	EfthymiouY23 [195], TouatBT22 [602], Astrand21 [35], Astrand0F21 [36], Zahout21 [662], ZarandiASC20 [664], Hooker19 [316], TranVNB17 [609], Pralet17 [515], TranWDRFOVB16 [611], Froger16 [224], SimoninAHL15 [565], BessiereHMQW14 [93], HeinzSB13 [298], GuyonLPR12 [274], SimoninAHL12 [564], RuggieroBBMA09 [535], Rodriguez07 [527], OddiPCC03 [487], NuijtenP98 [484]
ApplicationAreas	semiconductor	ZarandiASC20 [664], MalapertN19 [427], NattafDYW19 [470], Ham18a [278], BajestaniB15 [43], NovasH12 [481]	PenzDN23 [503], QinWSLS21 [519], GokgurHO18 [252], HamC16 [280], LombardiMRB10 [412], Davenport10 [165], KrogtLPHJ07 [618], JainM99 [326]	LacknerMMWW23 [378], Fatemi-AnarakiTFV23 [213], YuraszeckMPV22 [660], abs-2211-14492 [576], MullerMKP22 [456], ColT22 [161], EmdeZD22 [200], ZhangJZL22 [667], FanXG21 [211], LacknerMMWW21 [377], HamPK21 [279], PandeyS21a [497], Astrand21 [35], TangB20 [583], MengZRZL20 [440], NattafM20 [472], Novas19 [479], LaborieRSV18 [376], Ham18 [277], GrimesH15 [261], KoschB14 [357], HarjunkoskiMBC14 [283], TerekhovTDB14 [591], Malapert11 [424], Lombardi10 [402]
ApplicationAreas	ship building			
ApplicationAreas	shipping line			QinDCS20 [520], LaborieRSV18 [376], KelarevaTK13 [344]
ApplicationAreas	steel cable			AalianPG23 [1]
ApplicationAreas	steel mill	GaySS14 [234], Letort13 [386], HeinzSSW12 [296], SchausHMCMD11 [541], HentenryckM08 [303], GarganiR07 [228]		abs-2312-13682 [505], PerezGSL23 [504], DoulabiRP16 [191], MenciaSV13 [439], MenciaSV12 [438]
ApplicationAreas	super-computer	BorghesiBLMB18 [116], BridiBLMB16 [121], BartoliniBBLM14 [60]		LuoB22 [420], GalleguillosKSB19 [227], Dejemeppe16 [173], HurleyOS16 [323]
ApplicationAreas	surgery	GurPAE23 [273], FarsiTM22 [212], RoshanaeiBAUB20 [531], GurEA19 [682], YounespourAKE19 [655], RoshanaeiLAU17 [532], DoulabiRP16 [191], WangMD15 [640], DoulabiRP14 [190], Wolf11 [648], Wolf09 [650]	ZarandiASC20 [664], TopalogluO11 [600]	ForbesHJST24 [218], AlfieriGPS23 [15], NaderiBZ22 [462], ElciOH22 [196], Lemos21 [385], FrimodigS19 [223]
ApplicationAreas	telescope	FrankK05 [221]	CatusseCBL16 [140]	BidotVLB09 [94], BeckW07 [73], Beck99 [62], PembertonG98 [502], Wallace96 [635]
ApplicationAreas	torpedo	GoldwaserS18 [254], GoldwaserS17 [253], KletzanderM17 [351]	AntuoriHHEN20 [21]	Hooker19 [316]
ApplicationAreas	train schedule	MarliereSPR23 [431], Lemos21 [385], CappartS17 [130], RodriguezS09 [530], Rodriguez07b [528], Geske05 [243]	ZarandiASC20 [664], LammaMM97 [381], BrusoniCLMMT96 [124]	abs-2312-13682 [505], SvancaraB22 [579], GeibingerMM21 [239], Novas19 [479], Froger16 [224], Rodriguez07 [527], RodriguezDG02 [529], MartinPY01 [432], Wallace96 [635]
ApplicationAreas	vaccine		GuoZ23 [272]	BonninMNE24 [114], JuvinHL23a [335]
ApplicationAreas	wildfire		ArtiguesHQT21 [32]	
ApplicationAreas	workforce scheduling	BourreauGGLT22 [119], MusliuSS18 [460], Wallace06 [636]	AntunesABD20 [20], AntunesABD18 [19]	GokPTGO23 [275], FallahiAC20 [210], CorreaLR07 [159], Mason01 [434], Darby-DowmanLMZ97 [164]
ApplicationAreas	yard crane		QinDCS20 [520], Hooker19 [316]	EmdeZD22 [200], WallaceY20 [637]

7.7 Concept Type Industries

Table 17: Works for Concepts of Type Industries

Type	Keyword	High	Medium	Low
Industries	IT industry			SchnellH15 [543]
Industries	PCB industry			
Industries	aerospace industry			SchildW00 [542]
Industries	agricultural industry	WinterMMW22 [645]		
Industries	agrifood industry			Groleaz21 [264]
Industries	airline industry			GokPTGO23 [275], HachemiGR11 [276], Mason01 [434]
Industries	automobile industry			HauderBRPA20 [287], abs-1902-09244 [286], Limtanyakul07 [396]
Industries	automotive industry		GuoZ23 [272], LimtanyakulS12 [397]	CzerniachowskaWZ23 [160], EmdeZD22 [200], AntuoriHHEN21 [22], BonfiettiZLM16 [113], SchildW00 [542], Wallace96 [635]
Industries	aviation industry			
Industries	cable industry			ZhuSZW23 [676]
Industries	carpet industry			Schutt11 [544]
Industries	chemical industry		Timpe02 [598]	LaborieRSV18 [376], GilesH16 [245], HarjunkoskiMBC14 [283], LombardiM12 [409], ChenGPSH10 [147], PoderBS04 [509], Simonis99 [568], Simonis95a [566]
Industries	chemical processing industry			GilesH16 [245]
Industries	chemistry industry			ChenGPSH10 [147]
Industries	chips industry			AbreuN22 [168]
Industries	circuit boards industry			MokhtarzadehTNF20 [448]
Industries	control system industry			BonfiettiZLM16 [113]
Industries	cutting industry			RiahiNS018 [525]
Industries	dairy industry		EscobetPQPRA19 [202], HarjunkoskiMBC14 [283]	Groleaz21 [264]
Industries	dismantling industry			HubnerGSV21 [322]
Industries	drawing industry			Simonis95a [566]
Industries	electricity industry	Froger16 [224]		PopovicCGNC22 [512], Godet21a [248], AntunesABD20 [20], AntunesABD18 [19]
Industries	electricity industry			
Industries	electronics industry			LacknerMMWW23 [378], LacknerMMWW21 [377]
Industries	electroplating industry			NovasH12 [481]
Industries	energy industry		Froger16 [224]	KovacsV06 [364]
Industries	fashion industry			Jans09 [328]
Industries	food industry		Groleaz21 [264]	Fatemi-AnarakiTFV23 [213], OujanaAYB22 [494], GroleazNS20 [266], GroleazNS20a [265], EscobetPQPRA19 [202], HachemiGR11 [276], SimonisCK00 [570], Simonis99 [568], SimonisC95 [571], Simonis95 [567]
Industries	food-processing industry			KlankeBYE21 [350], HauderBRPA20 [287], abs-1902-09244 [286]
Industries	forest industry			HachemiGR11 [276]
Industries	forging industry			LuoB22 [420]
Industries	foundry industry			Jans09 [328]
Industries	garment industry			GuoZ23 [272]
Industries	gas industry			ZarandiASC20 [664], GoelSHFS15 [250]
Industries	glass industry			Lunardi20 [418], LunardiBLRV20 [417], abs-1902-09244 [286]
Industries	heavy industry			CorreaLR07 [159]
Industries	insulation industry			YunusogluY22 [658]
Industries	leisure industry			
Industries	lumber industry			NattafDYW19 [470]

Table 17: Works for Concepts of Type Industries

Type	Keyword	High	Medium	Low
Industries	manufacturing industry			PrataAN23 [517], CzerniachowskaWZ23 [160], LacknerMMWW23 [378], WinterMMW22 [645], YuraszeckMPV22 [660], LacknerMMWW21 [377], FanXG21 [211], TangB20 [583], Mercier-AubinGQ20 [442], EscobetPQPRA19 [202], GedikKEK18 [235]
Industries	maritime industry			Astrand21 [35], QinDCS20 [520], SacramentoSP20 [536]
Industries	metal industry			LuoB22 [420]
Industries	metalworking industry			
Industries	mineral industry			Astrand21 [35], Astrand0F21 [36], AstrandJZ20 [38], BlomBPS14 [99]
Industries	mining industry		AalianPG23 [1]	abs-2402-00459 [474], CampeauG22 [129], Astrand21 [35], Astrand0F21 [36], AstrandJZ20 [38], ThiruvadyWGS14 [595]
Industries	nuclear industry			
Industries	oil industry			AbreuNP23 [169], AbreuAPNM21 [167], HarjunkoskiMBC14 [283], LopesCSM10 [413]
Industries	packaging industry			ArmstrongGOS21 [26]
Industries	painting industry			RiahiNS018 [525]
Industries	paper industry			Dejemeppe16 [173], HarjunkoskiMBC14 [283]
Industries	petro-chemical industry			LaborieRSV18 [376], GilesH16 [245], HarjunkoskiMBC14 [283]
Industries	pharmaceutical industry			YuraszeckMCCR23 [661], CzerniachowskaWZ23 [160], GeibingerKKMMW21 [236], HamC16 [280], NovaraNH16 [478], HarjunkoskiMBC14 [283]
Industries	potash industry			Astrand21 [35], Astrand0F21 [36], AstrandJZ20 [38], AstrandJZ18 [37]
Industries	power industry	Froger16 [224]		FrostD98 [226]
Industries	printing industry	Lunardi20 [418]	LunardiBLRV20 [417]	BourreauGGLT22 [119]
Industries	process industry		Timpe02 [598]	Nattaf16 [466], BlomPS16 [100], HarjunkoskiMBC14 [283], HeinzSSW12 [296], ChenGPSH10 [147], Jans09 [328], Simonis99 [568], Wallace96 [635]
Industries	processing industry		HauderBRPA20 [287]	KlankeBYE21 [350], abs-1902-09244 [286], GilesH16 [245]
Industries	railway industry			Lemos21 [385], Rodriguez07b [528], Geske05 [243]
Industries	repair industry			BoudreaultSLQ22 [118]
Industries	retail industry			ChapadosJR11 [146]
Industries	semiconductor industry			PenzDN23 [503], QinWSLS21 [519], NattafDYW19 [470], BajestaniB15 [43], GrimesH15 [261], NovasH12 [481], Lombardi10 [402], LombardiMRB10 [412], KrogtLPHJ07 [618]
Industries	semiprocess industry			ChenGPSH10 [147]
Industries	service industry			GurEA19 [682], DoomsH08 [187]
Industries	ship repair industry			BoudreaultSLQ22 [118]
Industries	shipping industry			Astrand21 [35], SacramentoSP20 [536], QinDCS20 [520]
Industries	software industry			BartakS11 [57]
Industries	solar cell industry			Novas19 [479]
Industries	steel industry		DavenportKRSH07 [166]	LacknerMMWW23 [378], KimCMLLP23 [349], IsikYA23 [325], OujanaAYB22 [494], LacknerMMWW21 [377], HauderBRPA20 [287], abs-1902-09244 [286], GoldwaserS18 [254], GoldwaserS17 [253], KletzanderM17 [351], HeinzSSW12 [296], SchausHMCMD11 [541], GrimesH10 [259], GarganiR07 [228]
Industries	steel making industry			
Industries	sugar industry			MartinPY01 [432]
Industries	taxi industry			Ham18 [277]
Industries	telecommunication industry			
Industries	textile industry	Mercier-AubinGQ20 [442]		ZarandiASC20 [664], BessiereHMQW14 [93]
Industries	tire industry			Jans09 [328]
Industries	tourism industry			LiuCGM17 [400]
Industries	trade industry			ParkUJR19 [501]

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 [562], Siala15 [561], SchausHMCMD11 [541], GarganiR07 [228]	LaborieRSV18 [376], German18 [242], CappartTSR18 [131], MossigeGSMC17 [453], NovaraNH16 [478], Letort13 [386], HeinzSSW12 [296], BandaSC11 [171]	ThomasKS20 [596], LiuLH19 [399], GelainPRVW17 [241], GaySS14 [234], RendlPHPR12 [524], HentenryckM08 [303]
Benchmarks	Roadef	Froger16 [224], Siala15 [561], Siala15a [562]	Nattaf16 [466], LetortCB15 [389], Kameugne14 [337], Letort13 [386], LetortCB13 [388], LetortBC12 [387]	CzerniachowskaWZ23 [160], HanenKP21 [281], Lemos21 [385], Polo-MejiaALB20 [511], GokGSTO20 [251], MalapertN19 [427], Tesch18 [593], OuelletQ18 [492], Tesch16 [592], Fahimi16 [206], Menana11 [437], Acuna-AgostMFG09 [5], Wallace06 [636], Elkhyari03 [197]
Benchmarks	benchmark	JuvinHL23a [335], AbreuPNF23 [3], IsikYA23 [325], TardivoDFMP23 [585], AlfieriGPS23 [15], JuvinHHL23 [332], LacknerMMWW23 [378], PovedaAA23 [514], Bit-Monnot23 [96], AfsarVPG23 [8], abs-2306-05747 [587], YuraszeckMCCR23 [661], ShaikhK23 [557], ZhuSZW23 [676], NaderiRR23 [465], TasselGS23 [586], AbreuNP23 [169], OuelletQ22 [493], ColT22 [161], MullerMKP22 [456], WinterMMW22 [645], NaderiBZ22a [461], JuvinHL22 [333], Teppan22 [589], BoudreaultSLQ22 [118], ZhangJZL22 [667], abs-2211-14492 [576], TouatBT22 [602], AbreuN22 [168]... (Total: 107)	ForbesHJST24 [218], abs-2402-00459 [474], AkramNHRSA23 [13], YuraszeckMC23 [659], MontemanniD23a [451], KameugneFND23 [340], abs-2305-19888 [300], MarliereSPR23 [431], NaderiBZ22 [462], ZhangBB22 [668], FetgoD22 [215], OujanaAYB22 [494], BourreauGGLT22 [119], HeinzNVH22 [299], AbreuAPNM21 [167], Astrand21 [35], KovacsTKSG21 [365], MengZRZL20 [440], Lunardi20 [418], MejiaY20 [436], SacramentoSP20 [536], BenediktMH20 [86], BadicaBI20 [39], AntuoriHHEN20 [21], GroleazNS20 [266], ArkhipovBL19 [25], GeibingerMM19 [238], Novas19 [479], NishikawaSTT19 [477]... (Total: 88)	PrataAN23 [517], BonninMNE24 [114], CzerniachowskaWZ23 [160], MontemanniD23 [452], GuoZ23 [272], EfthymiouY23 [195], KimCMLLP23 [349], Adelgren2023 [7], SquillaciPR23 [574], SvancaraB22 [579], JungblutK22 [331], ElciOH22 [196], PohlAK22 [510], SubulanC22 [575], YuraszeckMPV22 [660], YunusogluY22 [658], ArmstrongGOS22 [27], Astrand0F21 [36], VlkHT21 [633], HubnerGSV21 [322], Zahout21 [662], KlankeBYE21 [350], ArmstrongGOS21 [26], CauwelaertDS20 [143], AstrandJZ20 [38], LunardiBLRV20 [417], NattafM20 [472], ThomasKS20 [596], ZarandiASC20 [664]... (Total: 139)
Benchmarks	bitbucket		TardivoDFMP23 [585], Dejemeppe16 [173]	CauwelaertDS20 [143], ThomasKS20 [596], HoundjiSW19 [320], CappartTSR18 [131], CauwelaertLS18 [142], He0GLW18 [288], CappartS17 [130], CauwelaertDMS16 [141], GayHLS15 [231], DejemeppeCS15 [174], GayHS15a [233], GayHS15 [232], HoundjiSWD14 [321], DejemeppeD14 [175]
Benchmarks	generated instance	IsikYA23 [325], LuoB22 [420], abs-1911-04766 [237]	abs-2312-13682 [505], PerezGSL23 [504], OrnekOS20 [490], Godet21a [248], GodetLHS20 [249], MejiaY20 [436], NattafALR16 [469], Dejemeppe16 [173], Madi-WambaB16 [421], KelbelH11 [345], SchausHMCMD11 [541]	abs-2402-00459 [474], abs-2305-19888 [300], EfthymiouY23 [195], Adelgren2023 [7], ColT22 [161], YunusogluY22 [658], TouatBT22 [602], BoudreaultSLQ22 [118], YuraszeckMPV22 [660], HeinzNVH22 [299], ZhangBB22 [668], abs-2211-14492 [576], HanenKP21 [281], Astrand21 [35], AbohashimaEG21 [2], abs-2102-08778 [156], AbreuAPNM21 [167], GeibingerMM21 [239], Astrand0F21 [36], MokhtarzadehTNF20 [448], AntuoriHHEN20 [21], RoshanaeiBAUB20 [531], CauwelaertDS20 [143], LunardiBLRV20 [417], BenediktMH20 [86], ThomasKS20 [596], Lunardi20 [418], YangSS19 [654], GeibingerMM19 [238]... (Total: 60)
Benchmarks	github	Lemos21 [385], Godet21a [248], KoehlerBFFHPSSS21 [352]	PovedaAA23 [514], TardivoDFMP23 [585], JungblutK22 [331], BoudreaultSLQ22 [118], HamPK21 [279], GodetLHS20 [249], BenediktMH20 [86], LunardiBLRV20 [417], Siala15a [562], Siala15 [561]	ForbesHJST24 [218], abs-2402-00459 [474], SquillaciPR23 [574], JuvinHHL23 [332], YuraszeckMCCR23 [661], Fatemi-AnarakiTFV23 [213], GuoZ23 [272], YuraszeckMC23 [659], GokPTGO23 [275], Bit-Monnot23 [96], abs-2306-05747 [587], Adelgren2023 [7], NaderiRR23 [465], TasselGS23 [586], OuelletQ22 [493], ColT22 [161], MullerMKP22 [456], LuoB22 [420], YuraszeckMPV22 [660], EmdeZD22 [200], GeitzGSSW22 [240], KovacsTKSG21 [365], GeibingerMM21 [239], VlkHT21 [633], AbohashimaEG21 [2], Polo-MejiaALB20 [511], FallahiAC20 [210], Lunardi20 [418], WangB20 [638]... (Total: 45)

Table 18: Works for Concepts of Type Benchmarks

Type	Keyword	High	Medium	Low
Benchmarks	gitlab		HeinzNVH22 [299]	abs-2305-19888 [300], BoudreaultSLQ22 [118], AntuoriHHEN21 [22], AntuoriHHEN20 [21]
Benchmarks	industrial instance	LuoB22 [420], AntuoriHHEN20 [21]	BonfiettiZLM16 [113], BonfiettiLBM14 [109], Schutt11 [544]	TasselGS23 [586], PovedaAA23 [514], EfthymiouY23 [195], abs-2306-05747 [587], OujanaAYB22 [494], GroleazNS20 [266], Mercier-AubinGQ20 [442], NattafM20 [472], Hooker19 [316], MalapertN19 [427], BofillGSV15 [105], BofillEGPSV14 [104], BonfiettiM12 [112], LombardiBMB11 [404], BonfiettiLBM11 [107]
Benchmarks	industrial partner	BoudreaultSLQ22 [118], Lunardi20 [418], Dejemeppe16 [173]	LacknerMMWW23 [378], ArmstrongGOS21 [26]	WinterMMW22 [645], VlkHT21 [633], LacknerMMWW21 [377], GroleazNS20a [265], AntunesABD20 [20], Mercier-AubinGQ20 [442], abs-1911-04766 [237], GeibingerMM19 [238], AntunesABD18 [19], MossigeGSMC17 [453], HebrardHJMPV16 [290], Froger16 [224], LipovetzkyBPS14 [398], LimtanyakulS12 [397], Malapert11 [424], KovacsV06 [364], KovacsV04 [363]
Benchmarks	industry partner	BurtLPS15 [125], LipovetzkyBPS14 [398]	BlomBPS14 [99]	LuoB22 [420], WinterMMW22 [645], ArmstrongGOS21 [26], HauderBRPA20 [287], abs-1902-09244 [286], AntunesABD18 [19], BlomPS16 [100]
Benchmarks	instance generator	LacknerMMWW23 [378], LacknerMMWW21 [377]	GoldwaserS18 [254], Froger16 [224]	abs-2402-00459 [474], ArmstrongGOS21 [26], Lunardi20 [418], abs-1911-04766 [237], Caballero19 [127], GombolayWS18 [256], YoungFS17 [656], GoldwaserS17 [253], Dejemeppe16 [173], GuyonLPR12 [274], Schutt11 [544], BeniniLMR11 [90], Lombardi10 [402], abs-1009-0347 [549], RuggieroBBMA09 [535], LombardiM09 [405], HeipckeCCS00 [301]
Benchmarks	random instance	LacknerMMWW21 [377], WallaceY20 [637], Dejemeppe16 [173]	WangB23 [639], LacknerMMWW23 [378], EfthymiouY23 [195], LetortCB15 [389], KelbelH11 [345]	Mehdizadeh-Somarin23 [435], Fatemi-AnarakiTFV23 [213], OuelletQ22 [493], EmdeZD22 [200], ElciOH22 [196], abs-2211-14492 [576], MullerMKP22 [456], KlankeBYE21 [350], VlkHT21 [633], Godet21a [248], HanenKP21 [281], AntuoriHHEN20 [21], BenediktMH20 [86], Lunardi20 [418], LunardiBLRV20 [417], HoundjiSW19 [320], BenediktSMVH18 [87], FahimiOQ18 [207], Hooker17 [315], MossigeGSMC17 [453], CappartS17 [130], Fahimi16 [206], Madi-WambaB16 [421], Siala15 [561], Siala15a [562], KameugneFSN14 [342], DerrienP14 [180], DerrienPZ14 [181], LetortCB13 [388]... (Total: 41)
Benchmarks	real-life	GurPAE23 [273], SubulanC22 [575], WinterMMW22 [645], Astrand21 [35], HubnerGSV21 [322], QinDCS20 [520], GurEA19 [682], WangMD15 [640], BartakSR10 [58], BartakCS10 [56], ChenGPSH10 [147], Baptiste02 [44], Bartak02a [53], MartinPY01 [432]	AfsarVPG23 [8], LacknerMMWW23 [378], OujanaAYB22 [494], Lemos21 [385], Astrand0F21 [36], LacknerMMWW21 [377], KlankeBYE21 [350], Lunardi20 [418], FallahiAC20 [210], abs-1911-04766 [237], PourDERB18 [513], MusliuSS18 [460], AmadiniGM16 [17], Froger16 [224], BartakV15 [59], GaySS14 [234], LimtanyakulS12 [397], MenciaSV12 [438], LombardiMRB10 [412], RuggieroBBMA09 [535], Tsang03 [613], JainM99 [326], NuijtenP98 [484], SimonisC95 [571], DincbasSH90 [185]	BonninMNE24 [114], ForbesHJST24 [218], PrataAN23 [517], AbreuPNF23 [3], IsikYA23 [325], EfthymiouY23 [195], Adelgren2023 [7], PovedaAA23 [514], CampeauG22 [129], LuoB22 [420], YuraszeckMPV22 [660], GeitzGSSW22 [240], ColT22 [161], NaderiBZ22 [462], Teppan22 [589], BoudreaultSLQ22 [118], YunusogluY22 [658], ElciOH22 [196], Godet21a [248], Bedhief21 [74], abs-2102-08778 [156], GeibingerMM21 [239], Groleaz21 [264], CauwelaertDS20 [143], GodetLHS20 [249], SacramentoSP20 [536], AstrandJZ20 [38], WallaceY20 [637], ZarandiASC20 [664]... (Total: 96)

Type	Keyword	High	Medium	Low
Benchmarks	real-world	GokPTGO23 [275], abs-2305-19888 [300], HeinzNVH22 [299], YunusogluY22 [658], ColT22 [161], Lemos21 [385], Astrand21 [35], GeibingerMM21 [239], KoehlerBFFHPSSS21 [352], HauderBRPA20 [287], Lunardi20 [418], MokhtarzadehTNF20 [448], abs-1911-04766 [237], GeibingerMM19 [238], abs-1902-09244 [286], FrohnerTR19 [225], GombolayWS18 [256], Dejemeppe16 [173], MelgarejoLS15 [11], EvenSH15 [204], EvenSH15a [205], RendlPHPR12 [524], Lombardi10 [402], MouraSCL08a [454], Beck99 [62]	PrataAN23 [517], TasselGS23 [586], IsikYA23 [325], abs-2306-05747 [587], Fatemi-AnarakiTFV23 [213], AbreuNP23 [169], AalianPG23 [1], AbreuPNF23 [3], WangB23 [639], YuraszeckMCCR23 [661], OujanaAYB22 [494], LuoB22 [420], SvancaraB22 [579], MullerMKP22 [456], ArmstrongGOS21 [26], ZarandiASC20 [664], WallaceY20 [637], AntunesABD20 [20], RoshanaeiBAUB20 [531], WessenCS20 [643], TangB20 [583], AstrandJZ20 [38], ParkUJR19 [501], YounespourAKE19 [655], FrimodigS19 [223], LaborieRSV18 [376], PourDERB18 [513], ShinBBHO18 [560], RiahiNS018 [525]... (Total: 48)	abs-2402-00459 [474], abs-2312-13682 [505], KimCMLLP23 [349], JuvinHL23 [334], ZhuSZW23 [676], PerezGSL23 [504], GuoZ23 [272], ShaikhK23 [557], PovedaAA23 [514], AfsarVPG23 [8], Bit-Monnot23 [96], TardivoDFMP23 [585], MarliereSPR23 [431], CzerniachowskaWZ23 [160], GeitzGSSW22 [240], SubulanC22 [575], OrnekOS20 [490], BourreauGGLT22 [119], EtminaniesfahaniGNMS22 [203], CampeauG22 [129], JungblutK22 [331], AbreuN22 [168], ArmstrongGOS22 [27], FetgoD22 [215], PohlAK22 [510], BoudreaultSLQ22 [118], GeibingerKKMMW21 [236], AbohashimaEG21 [2], KovacsTKSG21 [365]... (Total: 126)
Benchmarks	supplementary material	GuoZ23 [272], FarsiTM22 [212], MejiaY20 [436], Lunardi20 [418]	AfsarVPG23 [8], MontemanniD23 [452], SchuttFSW13 [551]	abs-2306-05747 [587], JuvinHHL23 [332], TasselGS23 [586], Adelgren2023 [7], WinterMMW22 [645], ColT22 [161], BoudreaultSLQ22 [118], YunusogluY22 [658], KovacsTKSG21 [365], AntuoriHHEN21 [22], ArmstrongGOS21 [26], LacknerMMWW21 [377], MengZRZL20 [440], HauderBRPA20 [287], SchnellH15 [543], MenciaSV13 [439]
Benchmarks	zenodo	LacknerMMWW23 [378], SacramentoSP20 [536]		KimCMLLP23 [349], WinterMMW22 [645], ArmstrongGOS21 [26]

7.9 Concept Type Algorithms

Table 19: Works for Concepts of Type Algorithms

Type	Keyword	High	Medium	Low
Algorithms	GRASP	Lemos21 [385]	YuraszeckMCCR23 [661], PovedaAA23 [514], YunusogluY22 [658], RiahiNS018 [525]	LacknerMMWW23 [378], AkramNHRSA23 [13], IsikYA23 [325], SquillaciPR23 [574], ArmstrongGOS22 [27], LacknerMMWW21 [377], Zahout21 [662], VlkHT21 [633], AntuoriHHEN21 [22], GokGSTO20 [251], QinDCS20 [520], MejiaY20 [436], GroleazNS20a [265], Caballero19 [127], KreterSSZ18 [368], ZhouGL15 [674], Siala15 [561], Siala15a [562], SchnellH15 [543], SerraNM12 [556], HeinzB12 [294], Rodriguez07 [527], JainM99 [326]
Algorithms	IGT	ArmstrongGOS22 [27]		
Algorithms	Lagrangian relaxation	HookerH17 [318], ThiruvadyWGS14 [595], GuSS13 [268], GuSW12 [270], MilanoW09 [446], MilanoW06 [445], Mason01 [434]	IsikYA23 [325], AbreuN22 [168], ZarandiASC20 [664], BlomPS16 [100], Dejemeppe16 [173], Froger16 [224], EdisO11 [192], Wallace06 [636], BlazewiczDP96 [126]	abs-2402-00459 [474], KimCMLLP23 [349], MarliereSPR23 [431], abs-2305-19888 [300], EtminaniesfahaniGNMS22 [203], HeinzNVH22 [299], YunusogluY22 [658], HamPK21 [279], CauwelaertDS20 [143], FallahiAC20 [210], GurEA19 [682], BaptisteB18 [46], KreterSSZ18 [368], GomesM17 [258], YoungFS17 [656], DejemeppeCS15 [174], GaySS14 [234], GuyonLPR12 [274], Menana11 [437], Lombardi10 [402], LauLN08 [382], LiW08 [390], SadykovW06 [538], DemasseyAM05 [177], ArtiguesBF04 [30], Demassey03 [176], Baptiste02 [44], JainM99 [326], Wallace96 [635]
Algorithms	MINLP	BlomPS16 [100], BlomBPS14 [99], HarjunkoskiMBC14 [283]	Adelgren2023 [7], BurtLPS15 [125]	EscobetPQPRA19 [202], YounespourAKE19 [655], HookerH17 [318], LimBTBB15 [395], LopesCSM10 [413], MouraSCL08a [454], Hooker07 [313], Hooker06 [312], ChuX05 [149], Hooker05 [310], Hooker05a [311], Hooker04 [309], JainG01 [327]
Algorithms	MIQP	WinterMMW22 [645]		BurtLPS15 [125]
Algorithms	NEH	AlfieriGPS23 [15], ArmstrongGOS22 [27], Astrand21 [35], RiahiNS018 [525]		AbreuPNF23 [3], IsikYA23 [325], ZhouGL15 [674]
Algorithms	ant colony	abs-2402-00459 [474], Groleaz21 [264], GroleazNS20a [265], ZarandiASC20 [664], ThiruvadyWGS14 [595], ThiruvadyBME09 [594]	IsikYA23 [325], ZhuSZW23 [676], FarsiTM22 [212], NaderiBZ22a [461], YuraszeckMPV22 [660], KoehlerBFFHPSSS21 [352], ZhangYW21 [669], GroleazNS20 [266], Lunardi20 [418], MejiaY20 [436], FrohnerTR19 [225], GedikKEK18 [235], Dejemeppe16 [173], Froger16 [224], TranAB16 [604], DejemeppeCS15 [174], Siala15a [562], MalapertCGJLR12 [425], Malapert11 [424]	AbreuPNF23 [3], AkramNHRSA23 [13], AlfieriGPS23 [15], Fatemi-AnarakiTFV23 [213], GuoZ23 [272], LacknerMMWW23 [378], MontemanniD23 [452], MontemanniD23a [451], PenzDN23 [503], YuraszeckMC23 [659], AbreuN22 [168], EtminaniesfahaniGNMS22 [203], SubulanC22 [575], YunusogluY22 [658], abs-2211-14492 [576], AbohashimaEG21 [2], ArmstrongGOS21 [26], FanXG21 [211], HamPK21 [279], LacknerMMWW21 [377], QinWSLS21 [519], MengZRZL20 [440], GurEA19 [682], KucukY19 [372], YounespourAKE19 [655], PourDERB18 [513], RiahiNS018 [525], ZhangW18 [670], GomesM17 [258]... (Total: 44)
Algorithms	bi-partite matching			Caballero19 [127], HookerH17 [318], Simonis07 [569], Kumar03 [371], Simonis99 [568]
Algorithms	column generation	BourreauGGLT22 [119], PohlAK22 [510], HookerH17 [318], CatusseCBL16 [140], Froger16 [224], DoulabiRP14 [190], TopalogluO11 [600], MilanoW09 [446], AkkerDH07 [616], MilanoW06 [445], SadykovW06 [538], Wallace06 [636], Mason01 [434]	abs-2402-00459 [474], Adelgren2023 [7], abs-2211-14492 [576], Groleaz21 [264], FallahiAC20 [210], BenediktSMVH18 [87], RoshanaeiLAU17 [532], DoulabiRP16 [191], EvenSH15 [204], EvenSH15a [205], HeinzSSW12 [296], HachemiGR11 [276], CorreaLR07 [159], BeckR03 [70]	GuoZ23 [272], SquillaciPR23 [574], ZhuSZW23 [676], CampeauG22 [129], PandeyS21a [497], Zahout21 [662], AntunesABD20 [20], RoshanaeiBAUB20 [531], ZarandiASC20 [664], Hooker19 [316], HoundjiSW19 [320], KucukY19 [372], AntunesABD18 [19], CappartTSR18 [131], DemirovicS18 [178], GedikKEK18 [235], GoldwaserS18 [254], MusliuSS18 [460], GoldwaserS17 [253], LiuCGM17 [400], YoungFS17 [656], FontaineMH16 [217], Nattaf16 [466], TranAB16 [604], WangMD15 [640], HarjunkoskiMBC14 [283], KoschB14 [357], OzturkTHO13 [496], GuyonLPR12 [274]... (Total: 50)

Table 19: Works for Concepts of Type Algorithms

Type	Keyword	High	Medium	Low
Algorithms	conflict-driven clause learning	Siala15a [562]		Lemos21 [385], Caballero19 [127], SialaAH15 [563]
Algorithms	deep learning	MullerMKP22 [456]		AkramNHRSA23 [13], EfthymiouY23 [195], abs-2211-14492 [576], AntuoriHHEN21 [22], TranDRFWOVB16 [606], TranWDRFOVB16 [611], BeckF98 [67]
Algorithms	edge-finder	KameugneFND23 [340], FetgoD22 [215], GingrasQ16 [246], KameugneFSN14 [342], Lombardi10 [402], MercierH08 [441], BaptisteP00 [49]	OuelletQ13 [491], KelbelH11 [345], PapaB98 [500]	BaptisteB18 [46], BonfiettiZLM16 [113], Kameugne14 [337], GuSS13 [268], Schutt11 [544], SchuttFSW11 [550], HeckmanB11 [293], BidotVLB09 [94], MilanoW09 [446], SchuttFSW09 [548], BeckW07 [73], MilanoW06 [445], BeckW05 [72], BeckR03 [70], ValleMGT03 [615], SakkoutW00 [539], JainM99 [326], Zhou97 [673], BaptisteP97 [48]
Algorithms	edge-finding	KameugneFND23 [340], JuvinHHL23 [332], TardivoDFMP23 [585], OuelletQ22 [493], FetgoD22 [215], CauwelaertDS20 [143], YangSS19 [654], Caballero19 [127], GokgurHO18 [252], FahimiOQ18 [207], BaptisteB18 [46], KreterSS17 [367], HookerH17 [318], Fahimi16 [206], Nattaf16 [466], Dejemeppe16 [173], Derrien15 [179], GayHS15a [233], Kameugne15 [338], GrimesH15 [261], KameugneFSN14 [342], Kameugne14 [337], Letort13 [386], OuelletQ13 [491], SchuttFS13a [546], Clercq12 [170], Malapert11 [424], KameugneFSN11 [341], Vilim11 [628]... (Total: 50)	BoudreaultSLQ22 [118], LaborieRSV18 [376], Tesch18 [593], GingrasQ16 [246], CauwelaertDMS16 [141], LetortCB15 [389], DejemeppeCS15 [174], Siala15a [562], Siala15 [561], MenciaSV13 [439], LetortCB13 [388], LetortBC12 [387], LombardiM12 [409], Lombardi10 [402], BartakSR10 [58], LiessM08 [392], HoeveGSL07 [619], MonetteDD07 [449], Vilim04 [624], Bartak02 [54], SchildW00 [542], Zhou97 [673]	BonninMNE24 [114], CampeauG22 [129], Groleaz21 [264], Astrand21 [35], Godet21a [248], WallaceY20 [637], OuelletQ18 [492], GombolayWS18 [256], CauwelaertLS18 [142], NattafAL17 [468], OrnekO16 [489], Tesch16 [592], SialaAH15 [563], GayHLS15 [231], DerrienP14 [180], GuSS13 [268], HeinzSB13 [298], OzturkTHO13 [496], ChuGNSW13 [148], MenciaSV12 [438], LimtanyakulS12 [397], MalapertCGJLR12 [425], OzturkTHO12 [680], HeckmanB11 [293], KovacsB11 [360], SimonisH11 [572], BeldiceanuCDP11 [80], KelbelH11 [345], GrimesH11 [260]... (Total: 62)
Algorithms	energetic reasoning	TardivoDFMP23 [585], OuelletQ22 [493], FetgoD22 [215], HanenKP21 [281], OuelletQ18 [492], Tesch18 [593], CauwelaertLS18 [142], NattafAL17 [468], NattafALR16 [469], Fahimi16 [206], Tesch16 [592], GayHS15a [233], NattafAL15 [467], DerrienP14 [180], SchuttFS13a [546], LimtanyakulS12 [397], HeinzS11 [297], Vilim11 [628], Lombardi10 [402], Laborie03 [373], Baptiste02 [44]	KameugneFND23 [340], NattafHKAL19 [471], KameugneFGOQ18 [339], Nattaf16 [466], Kameugne14 [337], Letort13 [386], SchuttFS13 [547], Schutt11 [544]	IsikYA23 [325], BoudreaultSLQ22 [118], ArmstrongGOS21 [26], Caballero19 [127], YangSS19 [654], GokgurHO18 [252], Laborie18a [375], BofillCSV17 [103], HookerH17 [318], GingrasQ16 [246], LetortCB15 [389], Derrien15 [179], KameugneFSN14 [342], LetortCB13 [388], OuelletQ13 [491], MenciaSV13 [439], Clercq12 [170], LombardiM12 [409], MenciaSV12 [438], GuyonLPR12 [274], LahimerLH11 [379], Malapert11 [424], ClercqPBJ11 [152], BeldiceanuCDP11 [80], ChenGPSH10 [147], abs-0907-0939 [507], Vilim09 [626], Vilim09a [627], Limtanyakul07 [396]... (Total: 35)
Algorithms	evolutionary computing			Groleaz21 [264], Lemos21 [385], Siala15a [562]
Algorithms	genetic algorithm	AbreuNP23 [169], AbreuPNF23 [3], IsikYA23 [325], ZhuSZW23 [676], AbreuN22 [168], BourreauGGLT22 [119], EtminaniesfahaniGNMS22 [203], NaderiBZ22a [461], YunusogluY22 [658], AbreuAPNM21 [167], Astrand21 [35], Groleaz21 [264], HamPK21 [279], Zahout21 [662], ZhangYW21 [669], Lunardi20 [418], MejiaY20 [436], MengZRZL20 [440], RoshanaeiBAUB20 [531], ZarandiASC20 [664], GombolayWS18 [256], TangLWSK18 [584], Froger16 [224], ZarandiKS16 [663], LahimerLH11 [379], MakMS10 [423], SureshMOK06 [578], KamarainenS02 [336], Beck99 [62]... (Total: 32)	PrataAN23 [517], abs-2402-00459 [474], AfsarVPG23 [8], AkramNHRSA23 [13], GokPTGO23 [275], JuvinHL23a [335], KimCMLLP23 [349], LacknerMMWW23 [378], ShaikhK23 [557], abs-2305-19888 [300], ColT22 [161], FarsiTM22 [212], HeinzNVH22 [299], JuvinHL22 [333], SubulanC22 [575], Bedhief21 [74], LacknerMMWW21 [377], Lemos21 [385], ZouZ20 [679], ColT19 [157], Novas19 [479], RiahiNS018 [525], GomesM17 [258], Pralet17 [515], Dejemeppe16 [173], Nattaf16 [466], GrimesH15 [261], ZhouGL15 [674], AlesioNBG14 [182]... (Total: 45)	ForbesHJST24 [218], AalianPG23 [1], Bit-Monnot23 [96], JuvinHHL23 [332], Mehdizadeh-Somarin23 [435], NaderiRR23 [465], PovedaAA23 [514], TasselGS23 [586], WangB23 [639], abs-2306-05747 [587], LiFJZLL22 [391], MullerMKP22 [456], OrnekOS20 [490], OujanaAYB22 [494], Teppan22 [589], WinterMMW22 [645], YuraszeckMPV22 [660], ZhangJZL22 [667], abs-2211-14492 [576], AbohashimaEG21 [2], ArmstrongGOS21 [26], Astrand0F21 [36], HillTV21 [306], HubnerGSV21 [322], KoehlerBFFHPSSS21 [352], QinWSLS21 [519], abs-2102-08778 [156], AntunesABD20 [20], AstrandJZ20 [38]... (Total: 106)
Algorithms	large language model			

Table 19: Works for Concepts of Type Algorithms

Type	Keyword	High	Medium	Low
Algorithms	large neighborhood search	PovedaAA23 [514], SquillaciPR23 [574], AbreuN22 [168], Astrand0F21 [36], Astrand21 [35], GeibingerMM21 [239], AstrandJZ20 [38], Mercier-AubinGQ20 [442], LaborieRSV18 [376], Dejemeppe16 [173], Froger16 [224], LimBTBB15 [395], GaySS14 [234], CarchraeB09 [132], MonetteDH09 [450], HentenryckM08 [303], DannaP03 [163]	AbreuNP23 [169], KimCMLLP23 [349], PerezGSL23 [504], abs-2312-13682 [505], ColT22 [161], ZhangBB22 [668], Groleaz21 [264], Lemos21 [385], GokGSTO20 [251], SacramentoSP20 [536], ThomasKS20 [596], abs-1911-04766 [237], CappartTSR18 [131], DemirovicS18 [178], FontaineMH16 [217], GrimesH15 [261], VilimLS15 [631], HarjunkoskiMBC14 [283], LombardiM12 [409], GrimesH11 [260], KelbelH11 [345], Menana11 [437], SchausHMCMD11 [541], Lombardi10 [402], GodardLN05 [247]	PrataAN23 [517], AalianPG23 [1], AbreuPNF23 [3], Bit-Monnot23 [96], GokPTGO23 [275], LacknerMMWW23 [378], NaderiRR23 [465], TasselGS23 [586], abs-2306-05747 [587], BoudreaultSLQ22 [118], BourreauGGLT22 [119], EtminaniesfahaniGNMS22 [203], OrnekOS20 [490], PohlAK22 [510], WinterMMW22 [645], AbreuAPNM21 [167], AntuoriHHEN21 [22], HubnerGSV21 [322], LacknerMMWW21 [377], AntuoriHHEN20 [21], FallahiAC20 [210], GodetLHS20 [249], GroleazNS20 [266], LunardiBLRV20 [417], ColT19 [157], FrimodigS19 [223], GalleguillosKSB19 [227], Hooker19 [316], KucukY19 [372]... (Total: 67)
Algorithms	lazy clause generation	Caballero19 [127], KreterSSZ18 [368], KreterSS17 [367], KreterSS15 [366], Siala15a [562], KelarevaTK13 [344], SchuttFS13 [547], SchuttFS13a [546], SchuttFSW13 [551], Schutt11 [544], SchuttFSW11 [550], abs-1009-0347 [549], OhrimenkoSC09 [488], SchuttFSW09 [548]	Bit-Monnot23 [96], PovedaAA23 [514], BoudreaultSLQ22 [118], GeitzGSSW22 [240], OuelletQ22 [493], Godet21a [248], WallaceY20 [637], FahimiOQ18 [207], SchuttS16 [553], SzerediS16 [580], SchnellH15 [543], SialaAH15 [563], BofillEGPSV14 [104], GuSS13 [268], SchuttCSW12 [545]	AbreuPNF23 [3], KameugneFND23 [340], TardivoDFMP23 [585], WangB23 [639], EtminaniesfahaniGNMS22 [203], FetgoD22 [215], GeibingerMM21 [239], HillTV21 [306], GodetLHS20 [249], Mercier-AubinGQ20 [442], YangSS19 [654], BaptisteB18 [46], GoldwaserS18 [254], BofillCSV17 [103], GoldwaserS17 [253], MossigeGSMC17 [453], YoungFS17 [656], AmadiniGM16 [17], PesantRR15 [506], GuSW12 [270], LombardiM12 [409], GrimesH11 [260], Lombardi10 [402], SchuttW10 [554], MilanoW09 [446]
Algorithms	machine learning	abs-2402-00459 [474], EfthymiouY23 [195], MullerMKP22 [456], abs-2211-14492 [576], Groleaz21 [264], ZarandiASC20 [664], HurleyOS16 [323]	GokPTGO23 [275], AntuoriHHEN21 [22], KovacsTKSG21 [365], Lemos21 [385], GalleguillosKSB19 [227], BorghesiBLMB18 [116], CohenHB17 [155], GrimesIOS14 [263], IfrimOS12 [324], CarchraeB09 [132], BlazewiczDP96 [126]	PrataAN23 [517], AkramNHRSA23 [13], GuoZ23 [272], GurPAE23 [273], IsikYA23 [325], JuvinHL23a [335], MarliereSPR23 [431], Mehdizadeh-Somarin23 [435], MontemanniD23 [452], ShaikhK23 [557], TasselGS23 [586], abs-2306-05747 [587], ColT22 [161], GeitzGSSW22 [240], LiFJZLL22 [391], PopovicCGNC22 [512], ZhangJZL22 [667], AbohashimaEG21 [2], FanXG21 [211], GeibingerMM21 [239], HillTV21 [306], QinWSLS21 [519], AntuoriHHEN20 [21], GroleazNS20a [265], Lunardi20 [418], SacramentoSP20 [536], ColT19 [157], BenediktSMVH18 [87], TranPZLDB18 [607]... (Total: 46)
Algorithms	mat heuristic	abs-2402-00459 [474], AbreuPNF23 [3], MontemanniD23 [452], EtminaniesfahaniGNMS22 [203], SacramentoSP20 [536], ArbaouiY18 [24], Nattaf16 [466]	AlfieriGPS23 [15], KimCMLLP23 [349], ArmstrongGOS22 [27], YunusogluY22 [658], YuraszeckMPV22 [660], AbreuAPNM21 [167], DemirovicS18 [178], Froger16 [224]	PrataAN23 [517], AbreuNP23 [169], Fatemi-AnarakiTFV23 [213], IsikYA23 [325], MontemanniD23a [451], PerezGSL23 [504], YuraszeckMCCR23 [661], abs-2312-13682 [505], AbreuN22 [168], SubulanC22 [575], WinterMMW22 [645], Groleaz21 [264], HubnerGSV21 [322], PandeyS21a [497], GokGSTO20 [251], GroleazNS20 [266], Lunardi20 [418], Polo-MejiaALB20 [511], Hooker19 [316], GokgurHO18 [252], CireCH16 [151], HechingH16 [292], EvenSH15 [204], EvenSH15a [205], WangMD15 [640], Elkhyari03 [197]
Algorithms	max-flow		LopesCSM10 [413], MouraSCL08 [455], Muscettola02 [459]	FanXG21 [211], ZarandiASC20 [664], HoundjiSW19 [320], Fahimi16 [206], Froger16 [224], Kumar03 [371]
Algorithms	memetic algorithm	ZarandiASC20 [664]	AfsarVPG23 [8], ArmstrongGOS21 [26], LahimerLH11 [379]	PrataAN23 [517], AlfieriGPS23 [15], IsikYA23 [325], PenzDN23 [503], ColT22 [161], EtminaniesfahaniGNMS22 [203], LiFJZLL22 [391], NaderiBZ22 [462], ZhangJZL22 [667], AbohashimaEG21 [2], Groleaz21 [264], QinWSLS21 [519], ZhangYW21 [669], FallahiAC20 [210], Lunardi20 [418], NattafDYW19 [470], RiahiNS018 [525], ZhangW18 [670], GrimesH15 [261], MenciaSV12 [438], RendlPHPR12 [524], GrimesH11 [260], JainM99 [326]

Table 19: Works for Concepts of Type Algorithms

Type	Keyword	High	Medium	Low
Algorithms	meta heuristic	PrataAN23 [517], abs-2402-00459 [474], AbreuNP23 [169], AbreuPNF23 [3], AfsarVPG23 [8], AlfieriGPS23 [15], GokPTGO23 [275], IsikYA23 [325], MontemanniD23a [451], NaderiRR23 [465], YuraszeckMC23 [659], YuraszeckMCCR23 [661], AbreuN22 [168], ArmstrongGOS22 [27], EtminaniesfahaniGNMS22 [203], FarsiTM22 [212], WinterMMW22 [645], YunusogluY22 [658], YuraszeckMPV22 [660], ZhangJZL22 [667], AbreuAPNM21 [167], Astrand21 [35], Groleaz21 [264], HubnerGSV21 [322], QinWSLS21 [519], BarzegaranZP20 [61], FallahiAC20 [210], Lunardi20 [418], MejiaY20 [436]... (Total: 46)	CzerniachowskaWZ23 [160], Fatemi-AnarakiTFV23 [213], MontemanniD23 [452], BoudreaultSLQ22 [118], MullerMKP22 [456], NaderiBZ22a [461], OrnekOS20 [490], OujanaAYB22 [494], SubulanC22 [575], TouatBT22 [602], ZhangBB22 [668], abs-2211-14492 [576], AbohashimaEG21 [2], ArmstrongGOS21 [26], Bedhief21 [74], HamPK21 [279], Zahout21 [662], GroleazNS20 [266], GroleazNS20a [265], HauderBRPA20 [287], MokhtarzadehTNF20 [448], RoshanaeiBAUB20 [531], WallaceY20 [637], Hooker19 [316], NattafDYW19 [470], abs-1902-09244 [286], GedikKEK18 [235], GombolayWS18 [256], Dejemeppe16 [173]... (Total: 42)	EfthymiouY23 [195], GurPAE23 [273], JuvinHL23a [335], KimCMLLP23 [349], LacknerMMWW23 [378], MarliereSPR23 [431], Mehdizadeh-Somarin23 [435], PenzDN23 [503], PerezGSL23 [504], PovedaAA23 [514], ShaikhK23 [557], SquillaciPR23 [574], TasselGS23 [586], abs-2305-19888 [300], abs-2306-05747 [587], abs-2312-13682 [505], BourreauGGLT22 [119], GeitzGSSW22 [240], HeinzNVH22 [299], JuvinHL22 [333], LiFJZLL22 [391], NaderiBZ22 [462], BenderWS21 [84], FanXG21 [211], Godet21a [248], KovacsTKSG21 [365], LacknerMMWW21 [377], Lemos21 [385], ZhangYW21 [669]... (Total: 123)
Algorithms	neural network	TasselGS23 [586], abs-2306-05747 [587], MullerMKP22 [456], abs-2211-14492 [576], ZarandiASC20 [664], JainM99 [326]	EfthymiouY23 [195], AntuoriHHEN20 [21], HookerH17 [318]	abs-2402-00459 [474], AfsarVPG23 [8], GurPAE23 [273], IsikYA23 [325], SquillaciPR23 [574], AntuoriHHEN21 [22], Astrand21 [35], FanXG21 [211], Groleaz21 [264], KovacsTKSG21 [365], FallahiAC20 [210], Lunardi20 [418], GalleguillosKSB19 [227], TangLWSK18 [584], KletzanderM17 [351], Froger16 [224], OrnekO16 [489], TranDRFWOVB16 [606], TranWDRFOVB16 [611], IfrimOS12 [324], ChenGPSH10 [147], BlazewiczDP96 [126], Wallace96 [635]
Algorithms	not-first	KameugneFND23 [340], FahimiOQ18 [207], KameugneFGOQ18 [339], Fahimi16 [206], Dejemeppe16 [173], GayHS15a [233], Kameugne14 [337], Clercq12 [170], Schutt11 [544], Malapert11 [424], SchuttFSW11 [550], VilimBC05 [630], ArtiouchineB05 [34], Demassey03 [176], Baptiste02 [44], Beck99 [62]	TardivoDFMP23 [585], FetgoD22 [215], GokgurHO18 [252], OuelletQ18 [492], HookerH17 [318], DejemeppeCS15 [174], Kameugne15 [338], KameugneFSN14 [342], Letort13 [386], OuelletQ13 [491], Lombardi10 [402], SchuttW10 [554], BartakSR10 [58], MonetteDD07 [449], VilimBC04 [629], Wolf03 [646], BeckF00 [68], TorresL00 [601]	JuvinHHL23 [332], BoudreaultSLQ22 [118], OuelletQ22 [493], Astrand21 [35], Groleaz21 [264], CauwelaertDS20 [143], CauwelaertLS18 [142], Tesch16 [592], CauwelaertDMS16 [141], GrimesH15 [261], ChuGNSW13 [148], MalapertCGJLR12 [425], LimtanyakulS12 [397], KameugneFSN11 [341], Vilim09 [626], Wolf09 [650], Wolf05 [647], Laborie03 [373], SourdN00 [573]
Algorithms	not-last	KameugneFND23 [340], TardivoDFMP23 [585], KameugneFGOQ18 [339], FahimiOQ18 [207], OuelletQ18 [492], Fahimi16 [206], Dejemeppe16 [173], GayHS15a [233], Kameugne14 [337], Clercq12 [170], Malapert11 [424], Schutt11 [544], SchuttW10 [554], ArtiouchineB05 [34], SchuttWS05 [555], Vilim05 [625], VilimBC05 [630], Vilim04 [624], Wolf03 [646], Demassey03 [176], Baptiste02 [44], Beck99 [62]	FetgoD22 [215], CauwelaertDS20 [143], GokgurHO18 [252], Tesch18 [593], Kameugne15 [338], DejemeppeCS15 [174], KameugneFSN14 [342], SchuttFS13a [546], OuelletQ13 [491], Letort13 [386], SchuttFSW11 [550], Vilim11 [628], KameugneFSN11 [341], Lombardi10 [402], BartakSR10 [58], MonetteDD07 [449], Wolf05 [647], VilimBC04 [629], TorresL00 [601], BeckF00 [68]	JuvinHHL23 [332], BoudreaultSLQ22 [118], GeitzGSSW22 [240], OuelletQ22 [493], Astrand21 [35], Groleaz21 [264], GodetLHS20 [249], YangSS19 [654], CauwelaertLS18 [142], HookerH17 [318], CauwelaertDMS16 [141], Tesch16 [592], GrimesH15 [261], ChuGNSW13 [148], LimtanyakulS12 [397], MalapertCGJLR12 [425], ChenGPSH10 [147], Wolf09 [650], MonetteDH09 [450], Vilim09a [627], GrimesHM09 [262], Vilim09 [626], BocewiczBB09 [101], WolfS05 [649], Laborie03 [373], Vilim03 [623]

Table 19: Works for Concepts of Type Algorithms

Type	Keyword	High	Medium	Low
Algorithms	particle swarm	SacramentoSP20 [536], ZarandiASC20 [664]	AfsarVPG23 [8], IsikYA23 [325], ZhuSZW23 [676], EtminaniesfahaniGNMS22 [203], HamPK21 [279], Lunardi20 [418], MejiaY20 [436], MengZRZL20 [440], ZhangW18 [670], Froger16 [224], GrimesH15 [261], MalapertCGJLR12 [425]	BonninMNE24 [114], PrataAN23 [517], abs-2402-00459 [474], AlfieriGPS23 [15], Bit-Monnot23 [96], CzerniachowskaWZ23 [160], LacknerMMWW23 [378], AbreuN22 [168], ColT22 [161], OrnekOS20 [490], OujanaAYB22 [494], SubulanC22 [575], YunusogluY22 [658], AbreuAPNM21 [167], KoehlerBFFHPSSS21 [352], LacknerMMWW21 [377], QinWSLS21 [519], ZhangYW21 [669], HauderBRPA20 [287], MokhtarzadehTNF20 [448], Polo-MejiaALB20 [511], QinDCS20 [520], Novas19 [479], abs-1902-01193 [14], abs-1902-09244 [286], KreterSSZ18 [368], TangLWSK18 [584], Dejemeppe16 [173], HamC16 [280]... (Total: 36)
Algorithms	quadratic programming		WinterMMW22 [645], BurtLPS15 [125]	abs-2402-00459 [474], MarliereSPR23 [431], ZhangBB22 [668], abs-2211-14492 [576], PandeyS21a [497], Hooker19 [316], He0GLW18 [288]
Algorithms	reinforcement learning	abs-2211-14492 [576], AntuoriHHEN20 [21], BeckFW11 [66]	abs-2402-00459 [474], IsikYA23 [325], TasselGS23 [586], abs-2306-05747 [587], AntuoriHHEN21 [22]	PrataAN23 [517], AfsarVPG23 [8], AkramNHRSA23 [13], EfthymiouY23 [195], GokPTGO23 [275], Mehdizadeh-Somarin23 [435], MullerMKP22 [456], SvancaraB22 [579], Astrand21 [35], KovacsTKSG21 [365], Lemos21 [385], Zahout21 [662], Lunardi20 [418], ZarandiASC20 [664], BajestaniB13 [42], CarchraeB09 [132]
Algorithms	simulated annealing	IsikYA23 [325], PovedaAA23 [514], WinterMMW22 [645], Lemos21 [385], SacramentoSP20 [536], ZarandiASC20 [664], NattafDYW19 [470], abs-1911-04766 [237], KletzanderM17 [351], LiuCGM17 [400], Froger16 [224], RendlPHPR12 [524], LimRX04 [393], Beck99 [62], JainM99 [326], BlazewiczDP96 [126]	abs-2402-00459 [474], LacknerMMWW23 [378], Mehdizadeh-Somarin23 [435], ColT22 [161], GeitzGSSW22 [240], Astrand21 [35], HubnerGSV21 [322], Lunardi20 [418], MejiaY20 [436], GedikKEK18 [235], GombolayWS18 [256], BeckFW11 [66], BeniniLMR08 [89], WatsonB08 [642], BeckF98 [67], NuijtenP98 [484], Wallace96 [635], AggounB93 [9]	AbreuNP23 [169], AbreuPNF23 [3], AkramNHRSA23 [13], JuvinHL23a [335], PenzDN23 [503], SquillaciPR23 [574], TasselGS23 [586], abs-2306-05747 [587], AbreuN22 [168], JuvinHL22 [333], NaderiBZ22a [461], OrnekOS20 [490], PohlAK22 [510], YunusogluY22 [658], YuraszeckMPV22 [660], AbreuAPNM21 [167], FanXG21 [211], GeibingerMM21 [239], Groleaz21 [264], HamPK21 [279], KoehlerBFFHPSSS21 [352], LacknerMMWW21 [377], ZhangYW21 [669], FallahiAC20 [210], MengZRZL20 [440], MokhtarzadehTNF20 [448], TangB20 [583], KucukY19 [372], Tom19 [599]... (Total: 69)
Algorithms	support vector regression			CohenHB17 [155]
Algorithms	swarm intelligence		Lunardi20 [418], ZarandiASC20 [664]	MontemanniD23 [452], Groleaz21 [264], HamPK21 [279], GroleazNS20a [265], Novas19 [479], Siala15a [562]
Algorithms	sweep	Tesch18 [593], BonfiettiZLM16 [113], NattafALR16 [469], Tesch16 [592], LetortCB15 [389], Derrien15 [179], SimoninAHL15 [565], NattafAL15 [467], GayHS15 [232], DerrienPZ14 [181], Letort13 [386], LetortCB13 [388], Clercq12 [170], LetortBC12 [387], SimoninAHL12 [564], ClercqPBJ11 [152], Malapert11 [424], abs-0907-0939 [507], BeldiceanuP07 [82], Wolf05 [647], Wolf03 [646], BeldiceanuC02 [79]	ArkhipovBL19 [25], FahimiOQ18 [207], GoldwaserS18 [254], GayHS15a [233], Schutt11 [544], AronssonBK09 [29], PoderB08 [508], WolfS05 [649]	BonninMNE24 [114], KameugneFND23 [340], TardivoDFMP23 [585], HebrardALLCMR22 [289], GeitzGSSW22 [240], OuelletQ22 [493], FetgoD22 [215], Godet21a [248], FallahiAC20 [210], HoundjiSW19 [320], KameugneFGOQ18 [339], CauwelaertLS18 [142], Madi-WambaLOBM17 [422], Fahimi16 [206], Nattaf16 [466], GingrasQ16 [246], Dejemeppe16 [173], BartakV15 [59], EvenSH15 [204], EvenSH15a [205], DerrienP14 [180], BonfiettiLBM14 [109], GaySS14 [234], OuelletQ13 [491], SimonisH11 [572], BeldiceanuCDP11 [80], Vilim11 [628], Lombardi10 [402], LombardiM10a [406]... (Total: 37)
Algorithms	systematic local search			Beck07 [64], DilkinaDH05 [183]

Table 19: Works for Concepts of Type Algorithms

Type	Keyword	High	Medium	Low
Algorithms	time-tabling	ShaikhK23 [557], TardivoDFMP23 [585], OuelletQ22 [493], OrnekOS20 [490], Lemos21 [385], DemirovicS18 [178], FahimiOQ18 [207], Fahimi16 [206], GayHS15a [233], Kameugne14 [337], OuelletQ13 [491], Letort13 [386], GuyonLPR12 [274], HeinzS11 [297], Menana11 [437], KanetAG04 [343], Laborie03 [373], ElkhyariGJ02a [199], Wallace96 [635]	Astrand21 [35], Godet21a [248], WallaceY20 [637], ZarandiASC20 [664], abs-1902-01193 [14], OuelletQ18 [492], CauwelaertLS18 [142], Tesch18 [593], HookerH17 [318], Siala15a [562], Derrien15 [179], GayHS15 [232], Siala15 [561], BofillGSV15 [105], Vilim11 [628], Elkhyari03 [197], Demassey03 [176], Bartak02 [54]	BonninMNE24 [114], PrataAN23 [517], KameugneFND23 [340], AbreuNP23 [169], MarliereSPR23 [431], Fatemi-AnarakiTFV23 [213], LacknerMMWW23 [378], TouatBT22 [602], FarsiTM22 [212], FetgoD22 [215], SvancaraB22 [579], GeibingerMM21 [239], MokhtarzadehTNF20 [448], GodetLHS20 [249], LiuLH19 [399], KucukY19 [372], Caballero19 [127], Hooker19 [316], abs-1911-04766 [237], GeibingerMM19 [238], ArkhipovBL19 [25], KameugneFGOQ18 [339], AstrandJZ18 [37], BaptisteB18 [46], GoldwaserS18 [254], CohenHB17 [155], YoungFS17 [656], LuoVLBM16 [419], ZarandiKS16 [663]... (Total: 66)

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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
FriedrichFMRSST	FriedrichFMRSST	G. Friedrich, M. Frühstück, V. Mersheva, 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	[632]
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 Schedulingt Problem	1997	PACT 1997	[117]
PapeB97	PapeB97	Claude Le Pape, P. Baptiste	A Constraint Programming Library for Preemptive and Non-Preemptive Scheduling	1997	PACT 1997	[499]
JourdanFRD94	JourdanFRD94	J. Jourdan, F. Fages, D. Rozzonelli, A. Demeure	Data Alignment and Task Scheduling On Parallel Machines Using Concurrent Constraint Model-based Programming	1994	ILPS 1994	[330]
Wallace94	Wallace94	M. Wallace	Applying Constraints for Scheduling	1994	Constraint Programming 1994	[634]
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: Operations 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	[614]
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	[305]
MartnezAJ22	MartnezAJ22	Karim Pérez Martínez, Y. Adulyasak, R. Jans	Logic-Based Benders Decomposition for Integrated Process Configuration and Production Planning Problems	2022	INFORMS Journal on Computing	[433]
NaderiR22	NaderiR22	B. Naderi, V. Roshanaei	Critical-Path-Search Logic-Based Benders Decomposition Approaches for Flexible Job Shop Scheduling	2022	INFORMS Journal on Optimization	[463]
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	[559]
CarlierSJP21	CarlierSJP21	J. Carlier, 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. Begen, Dionne M. Aleman, David R. Urbach	Increased Surgical Capacity without Additional Resources: Generalized Operating Room Planning and Scheduling	2021	Production and Operations Management	[464]
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	[271]
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	[641]
RoshanaeiLAU17a	RoshanaeiLAU17a	V. Roshanaei, C. Luong, Dionne M. Aleman, David R. Urbach	Collaborative Operating Room Planning and Scheduling	2017	INFORMS Journal on Computing	[533]
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	[444]
Tay92	Tay92	David B. H. Tay	COPS: A Constraint Programming Approach to Resource-Limited Project Scheduling	1992	Comput. J.	[588]
Lauriere78	Lauriere78	J. Lauriere	A language and a program for stating and solving combinatorial problems	1978	Artificial Intelligence	[383]

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	[356]	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	[414]	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
Algorithms	large language model		0
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-MMRCPSP	Y	1
Classification	Pre-emptive Job-Shop scheduling Problem		0
Classification	SMSDP	Y	1
Classification	Steel-making and continuous casting		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	[420]	2022	CPAIOR 2022	17	0	28	528	673
ZhangBB22 ZhangBB22	J. Zhang, Giovanni Lo Bianco, J. Christopher Beck	Solving Job-Shop Scheduling Problems with QUBO-Based Specialized Hardware	Yes	[668]	2022	ICAPS 2022	9	0	0	643	681
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	[531]	2020	International Journal of Production Economics	19	24	43	1460	1609
TangB20 TangB20	Tanya Y. Tang, J. Christopher Beck	CP and Hybrid Models for Two-Stage Batching and Scheduling	Yes	[583]	2020	CPAIOR 2020	16	6	12	598	703
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	[607]	2018	Journal of Scheduling	17	8	26	1488	1645
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	406	741
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	[609]	2017	J. Artif. Intell. Res.	68	12	0	1489	1653
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	[610]	2017	IJCAI 2017	5	1	0	613	750
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	388	754
KuB16 KuB16	W. Ku, J. Christopher Beck	Mixed Integer Programming models for job shop scheduling: A computational analysis	Yes	[369]	2016	Computers Operations Research	9	119	17	1389	1661
LuoVLBM16 LuoVLBM16	R. Luo, Richard Anthony Valenzano, Y. Li, J. Christopher Beck, Sheila A. McIlraith	Using Metric Temporal Logic to Specify Scheduling Problems	Yes	[419]	2016	KR 2016	4	0	0	529	764
TranAB16 TranAB16	Tony T. Tran, A. Araujo, J. Christopher Beck	Decomposition Methods for the Parallel Machine Scheduling Problem with Setups	Yes	[604]	2016	INFORMS Journal on Computing	13	72	28	1487	1665
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	[606]	2016	SOCS 2016	9	3	0	611	769
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	[611]	2016	AAAI 2016	9	0	0	614	770
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	1277	1667
KoschB14 KoschB14	S. Kosch, J. Christopher Beck	A New MIP Model for Parallel-Batch Scheduling with Non-identical Job Sizes	Yes	[357]	2014	CPAIOR 2014	16	4	18	496	801
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	[416]	2014	ICRA 2014	7	16	9	527	803
TerekhovTDB14 TerekhovTDB14	D. Terekhov, Tony T. Tran, Douglas G. Down, J. Christopher Beck	Integrating Queueing Theory and Scheduling for Dynamic Scheduling Problems	Yes	[591]	2014	J. Artif. Intell. Res.	38	12	0	1482	1685
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	1276	1687

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	[295]	2013	CPAIOR 2013	16	9	15	467	808
HeinzSB13 HeinzSB13	S. Heinz, J. Schulz, J. Christopher Beck	Using dual presolving reductions to reformulate cumulative constraints	Yes	[298]	2013	Constraints An Int. J.	36	7	31	1362	1689
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	[608]	2013	ICAPS 2013	9	0	0	612	816
HeinzB12 HeinzB12	S. Heinz, J. Christopher Beck	Reconsidering Mixed Integer Programming and MIP-Based Hybrids for Scheduling	Yes	[294]	2012	CPAIOR 2012	17	8	21	466	821
TerekhovDOB12 TerekhovDOB12	D. Terekhov, Mustafa K. Dogru, U. Özen, J. Christopher Beck	Solving two-machine assembly scheduling problems with inventory constraints	Yes	[590]	2012	Computers Industrial Engineering	15	8	48	1481	1703
TranB12 TranB12	Tony T. Tran, J. Christopher Beck	Logic-based Benders Decomposition for Alternative Resource Scheduling with Sequence Dependent Setups	Yes	[605]	2012	ECAI 2012	6	0	0	610	828
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	1704
BajestaniB11 BajestaniB11	Maliheh Aramon Bajestani, J. Christopher Beck	Scheduling an Aircraft Repair Shop	Yes	[41]	2011	ICAPS 2011	8	0	0	350	830
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	1287	1707
HeckmanB11 HeckmanB11	I. Heckman, J. Christopher Beck	Understanding the behavior of Solution-Guided Search for job-shop scheduling	Yes	[293]	2011	Journal of Scheduling	20	0	22	1360	1713
KovacsB11 KovacsB11	A. Kovács, J. Christopher Beck	A global constraint for total weighted completion time for unary resources	Yes	[360]	2011	Constraints An Int. J.	24	4	26	1385	1715
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	1298	1731
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	1310	1733
WuBB09 WuBB09	Christine Wei Wu, Kenneth N. Brown, J. Christopher Beck	Scheduling with uncertain durations: Modeling beta-robust scheduling with constraints	Yes	[653]	2009	Computers Operations Research	9	42	5	1498	1739
KovacsB08 KovacsB08	A. Kovács, J. Christopher Beck	A global constraint for total weighted completion time for cumulative resources	Yes	[359]	2008	Eng. Appl. Artif. Intell.	7	5	14	1384	1742
WatsonB08 WatsonB08	J. Watson, J. Christopher Beck	A Hybrid Constraint Programming / Local Search Approach to the Job-Shop Scheduling Problem	Yes	[642]	2008	CPAIOR 2008	15	14	17	630	877
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	1284	1747
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	1289	1748
KovacsB07 KovacsB07	A. Kovács, J. Christopher Beck	A Global Constraint for Total Weighted Completion Time	Yes	[358]	2007	CPAIOR 2007	15	2	12	497	884
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	360	890
BeckW05 BeckW05	J. Christopher Beck, N. Wilson	Proactive Algorithms for Scheduling with Probabilistic Durations	Yes	[72]	2005	IJCAI 2005	6	0	0	364	900
CarchraeBF05 CarchraeBF05	T. Carchrae, J. Christopher Beck, Eugene C. Freuder	Methods to Learn Abstract Scheduling Models	Yes	[133]	2005	CP 2005	1	0	0	395	901
WuBB05 WuBB05	Christine Wei Wu, Kenneth N. Brown, J. Christopher Beck	Scheduling with Uncertain Start Dates	Yes	[652]	2005	CP 2005	1	0	0	639	917
BeckW04 BeckW04	J. Christopher Beck, N. Wilson	Job Shop Scheduling with Probabilistic Durations	Yes	[71]	2004	ECAI 2004	5	0	0	363	919
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	362	930

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	1288	1763
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	1285	1778
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	2855	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	1286	1789
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	361	961

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	1305	1631
BonfiettiZLM16 BonfiettiZLM16	A. Bonfietti, A. Zanarini, M. Lombardi, M. Milano	The Multirate Resource Constraint	Yes	[113]	2016	CP 2016	17	0	11	386	753
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	1307	1656
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	390	755
LombardiBM15 LombardiBM15	M. Lombardi, A. Bonfietti, M. Milano	Deterministic Estimation of the Expected Makespan of a POS Under Duration Uncertainty	Yes	[403]	2015	CP 2015	16	0	8	522	781
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	358	790
BonfiettiLBM14 BonfiettiLBM14	A. Bonfietti, M. Lombardi, L. Benini, M. Milano	CROSS cyclic resource-constrained scheduling solver	Yes	[109]	2014	Artificial Intelligence	28	8	15	1304	1680
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	384	793
BonfiettiLM13 BonfiettiLM13	A. Bonfietti, M. Lombardi, M. Milano	De-Cycling Cyclic Scheduling Problems	Yes	[110]	2013	ICAPS 2013	5	0	0	383	804
LombardiM13 LombardiM13	M. Lombardi, M. Milano	A Min-Flow Algorithm for Minimal Critical Set Detection in Resource Constrained Project Scheduling	Yes	[410]	2013	ICAPS 2013	2	0	0	526	811
LombardiMB13 LombardiMB13	M. Lombardi, M. Milano, L. Benini	Robust Scheduling of Task Graphs under Execution Time Uncertainty	Yes	[411]	2013	IEEE Transactions on Computers	14	28	29	1402	1690
BonfiettiLBM12 BonfiettiLBM12	A. Bonfietti, M. Lombardi, L. Benini, M. Milano	Global Cyclic Cumulative Constraint	Yes	[108]	2012	CPAIOR 2012	16	2	11	382	818
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	385	819
LombardiM12 LombardiM12	M. Lombardi, M. Milano	Optimal methods for resource allocation and scheduling: a cross-disciplinary survey	Yes	[409]	2012	Constraints An Int. J.	35	39	68	1400	1697
LombardiM12a LombardiM12a	M. Lombardi, M. Milano	A min-flow algorithm for Minimal Critical Set detection in Resource Constrained Project Scheduling	Yes	[408]	2012	Artificial Intelligence	10	3	13	1401	1698
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	1296	1709
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	381	831
LombardiBMB11 LombardiBMB11	M. Lombardi, A. Bonfietti, M. Milano, L. Benini	Precedence Constraint Posting for Cyclic Scheduling Problems	Yes	[404]	2011	CPAIOR 2011	17	1	13	523	840
Milano11 Milano11	M. Milano	Constraint Programming Links with Math Programming	No	[443]	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	[407]	2010	CP 2010	15	1	11	525	850
LombardiM10a LombardiM10a	M. Lombardi, M. Milano	Allocation and scheduling of Conditional Task Graphs	Yes	[406]	2010	Artificial Intelligence	30	8	24	1399	1724
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	[412]	2010	Journal of Scheduling	31	24	41	1403	1725

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 LombardiM09	M. Lombardi, M. Milano	A Precedence Constraint Posting Approach for the RCPSP with Time Lags and Variable Durations	Yes	[405]	2009	CP 2009	15	7	12	524	859
MilanoW09 MilanoW09	M. Milano, M. Wallace	Integrating Operations Research in Constraint Programming	Yes	[446]	2009	Annals of Operations Research	40	34	46	1419	1736
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	[535]	2009	IEEE Trans. Comput. Aided Des. Integr. Circuits Syst.	14	9	27	1462	1738
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	372	869
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	371	891
MilanoW06 MilanoW06	M. Milano, M. Wallace	Integrating operations research in constraint programming	Yes	[445]	2006	4OR	45	18	46	1418	1755
MilanoORT02 MilanoORT02	M. Milano, G. Ottosson, P. Refalo, Erlendur S. Thorsteinsson	The Role of Integer Programming Techniques in Constraint Programming's Global Constraints	No	[444]	2002	INFORMS Journal on Computing	null	14	31	No	1770
LammaMM97 LammaMM97	E. Lamma, P. Mello, M. Milano	A distributed constraint-based scheduler	Yes	[381]	1997	Artif. Intell. Eng.	15	11	7	1394	1795
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	391	965

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	[654]	2019	CPAIOR 2019	10	1	14	640	721
GoldwaserS18 GoldwaserS18	A. Goldwaser, A. Schutt	Optimal Torpedo Scheduling	Yes	[254]	2018	J. Artif. Intell. Res.	32	8	0	1342	1636
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	[368]	2018	European Journal of Operational Research	15	25	31	1388	1640
MusliuSS18 MusliuSS18	N. Musliu, A. Schutt, Peter J. Stuckey	Solver Independent Rotating Workforce Scheduling	Yes	[460]	2018	CPAIOR 2018	17	7	23	548	732
GoldwaserS17 GoldwaserS17	A. Goldwaser, A. Schutt	Optimal Torpedo Scheduling	Yes	[253]	2017	CP 2017	16	0	10	450	743
KreterSS17 KreterSS17	S. Kreter, A. Schutt, Peter J. Stuckey	Using constraint programming for solving RCPSP/max-cal	Yes	[367]	2017	Constraints An Int. J.	31	15	20	1387	1649
YoungFS17 YoungFS17	Kenneth D. Young, T. Feydy, A. Schutt	Constraint Programming Applied to the Multi-Skill Project Scheduling Problem	Yes	[656]	2017	CP 2017	10	6	21	641	751
SchuttS16 SchuttS16	A. Schutt, Peter J. Stuckey	Explaining Producer/Consumer Constraints	Yes	[553]	2016	CP 2016	17	3	23	582	766
SzerediS16 SzerediS16	R. Szeredi, A. Schutt	Modelling and Solving Multi-mode Resource-Constrained Project Scheduling	Yes	[580]	2016	CP 2016	10	9	14	596	767
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	425	775
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	1327	1668
KreterSS15 KreterSS15	S. Kreter, A. Schutt, Peter J. Stuckey	Modeling and Solving Project Scheduling with Calendars	Yes	[366]	2015	CP 2015	17	7	16	502	779
SchuttFSW15 SchuttFSW15	A. Schutt, T. Feydy, Peter J. Stuckey, Mark G. Wallace	A Satisfiability Solving Approach	No	[552]	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	[269]	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	[595]	2014	J. Heuristics	34	19	18	1483	1686
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	401	805
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	[268]	2013	CPAIOR 2013	7	10	24	459	807
SchuttFS13 SchuttFS13	A. Schutt, T. Feydy, Peter J. Stuckey	Scheduling Optional Tasks with Explanation	Yes	[547]	2013	CP 2013	17	10	20	579	814
SchuttFS13a SchuttFS13a	A. Schutt, T. Feydy, Peter J. Stuckey	Explaining Time-Table-Edge-Finding Propagation for the Cumulative Resource Constraint	Yes	[546]	2013	CPAIOR 2013	17	20	27	580	815
SchuttFSW13 SchuttFSW13	A. Schutt, T. Feydy, Peter J. Stuckey, Mark G. Wallace	Solving RCPSP/max by lazy clause generation	Yes	[551]	2013	Journal of Scheduling	17	43	23	1470	1693
SchuttCSW12 SchuttCSW12	A. Schutt, G. Chu, Peter J. Stuckey, Mark G. Wallace	Maximising the Net Present Value for Resource-Constrained Project Scheduling	Yes	[545]	2012	CPAIOR 2012	17	18	21	578	825
Schutt11 Schutt11	A. Schutt	Improving Scheduling by Learning	Yes	[544]	2011	University of Melbourne, Australia	209	0	0	2877	n/a
SchuttFSW11 SchuttFSW11	A. Schutt, T. Feydy, Peter J. Stuckey, Mark G. Wallace	Explaining the cumulative propagator	Yes	[550]	2011	Constraints An Int. J.	33	57	23	1469	1718

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	[554]	2010	CP 2010	15	13	14	583	852
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	[549]	2010	CoRR	37	0	0	1513	1730
SchuttFSW09 SchuttFSW09	A. Schutt, T. Feydy, Peter J. Stuckey, M. Wallace	Why Cumulative Decomposition Is Not as Bad as It Sounds	Yes	[548]	2009	CP 2009	16	34	11	581	862
SchuttWS05 SchuttWS05	A. Schutt, A. Wolf, G. Schrader	Not-First and Not-Last Detection for Cumulative Scheduling in $O(n^3\log n)$	Yes	[555]	2005	INAP 2005	15	6	4	584	913

Table 28: Works from bibtex (Total 25)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
GokGSTO20 GokGSTO20	Yagmur S. Gök, D. Guimarans, Peter J. Stuckey, M. Tomasella, C. Ozturk	Robust Resource Planning for Aircraft Ground Operations	Yes	[251]	2020	CPAIOR 2020	17	2	14	449	698
YangSS19 YangSS19	M. Yang, A. Schutt, Peter J. Stuckey	Time Table Edge Finding with Energy Variables	Yes	[654]	2019	CPAIOR 2019	10	1	14	640	721
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	414	727
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	[368]	2018	European Journal of Operational Research	15	25	31	1388	1640
MusliuSS18 MusliuSS18	N. Musliu, A. Schutt, Peter J. Stuckey	Solver Independent Rotating Workforce Scheduling	Yes	[460]	2018	CPAIOR 2018	17	7	23	548	732
KreterSS17 KreterSS17	S. Kreter, A. Schutt, Peter J. Stuckey	Using constraint programming for solving RCPSP/max-cal	Yes	[367]	2017	Constraints An Int. J.	31	15	20	1387	1649
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	1301	1654
SchuttS16 SchuttS16	A. Schutt, Peter J. Stuckey	Explaining Producer/Consumer Constraints	Yes	[553]	2016	CP 2016	17	3	23	582	766
BurtLPS15 BurtLPS15	Christina N. Burt, N. Lipovetzky, Adrian R. Pearce, Peter J. Stuckey	Scheduling with Fixed Maintenance, Shared Resources and Nonlinear Feedrate Constraints: A Mine Planning Case Study	Yes	[125]	2015	CPAIOR 2015	17	0	8	392	773
KreterSS15 KreterSS15	S. Kreter, A. Schutt, Peter J. Stuckey	Modeling and Solving Project Scheduling with Calendars	Yes	[366]	2015	CP 2015	17	7	16	502	779
SchuttFSW15 SchuttFSW15	A. Schutt, T. Feydy, Peter J. Stuckey, Mark G. Wallace	A Satisfiability Solving Approach	No	[552]	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	1300	1679
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	[269]	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	[398]	2014	ICAPS 2014	9	0	0	518	802
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	[268]	2013	CPAIOR 2013	7	10	24	459	807
SchuttFS13 SchuttFS13	A. Schutt, T. Feydy, Peter J. Stuckey	Scheduling Optional Tasks with Explanation	Yes	[547]	2013	CP 2013	17	10	20	579	814
SchuttFS13a SchuttFS13a	A. Schutt, T. Feydy, Peter J. Stuckey	Explaining Time-Table-Edge-Finding Propagation for the Cumulative Resource Constraint	Yes	[546]	2013	CPAIOR 2013	17	20	27	580	815
SchuttFSW13 SchuttFSW13	A. Schutt, T. Feydy, Peter J. Stuckey, Mark G. Wallace	Solving RCPSP/max by lazy clause generation	Yes	[551]	2013	Journal of Scheduling	17	43	23	1470	1693
GuSW12 GuSW12	H. Gu, Peter J. Stuckey, Mark G. Wallace	Maximising the Net Present Value of Large Resource-Constrained Projects	Yes	[270]	2012	CP 2012	15	5	20	460	820
SchuttCSW12 SchuttCSW12	A. Schutt, G. Chu, Peter J. Stuckey, Mark G. Wallace	Maximising the Net Present Value for Resource-Constrained Project Scheduling	Yes	[545]	2012	CPAIOR 2012	17	18	21	578	825
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	1278	1705
SchuttFSW11 SchuttFSW11	A. Schutt, T. Feydy, Peter J. Stuckey, Mark G. Wallace	Explaining the cumulative propagator	Yes	[550]	2011	Constraints An Int. J.	33	57	23	1469	1718

Table 28: Works from bibtex (Total 25)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
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	[549]	2010	CoRR	37	0	0	1513	1730
OhrimenkoSC09 OhrimenkoSC09	O. Ohrimenko, Peter J. Stuckey, M. Codish	Propagation via lazy clause generation	Yes	[488]	2009	Constraints An Int. J.	35	127	15	1440	1737
SchuttFSW09 SchuttFSW09	A. Schutt, T. Feydy, Peter J. Stuckey, M. Wallace	Why Cumulative Decomposition Is Not as Bad as It Sounds	Yes	[548]	2009	CP 2009	16	34	11	581	862

D.5 25 Works by Michele Lombardi

Table 29: Works from bibtex (Total 25)

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	1305	1631
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	1312	1632
BonfiettiZLM16 BonfiettiZLM16	A. Bonfietti, A. Zanarini, M. Lombardi, M. Milano	The Multirate Resource Constraint	Yes	[113]	2016	CP 2016	17	0	11	386	753
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	1307	1656
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	390	755
LombardiBM15 LombardiBM15	M. Lombardi, A. Bonfietti, M. Milano	Deterministic Estimation of the Expected Makespan of a POS Under Duration Uncertainty	Yes	[403]	2015	CP 2015	16	0	8	522	781
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	358	790
BonfiettiLBM14 BonfiettiLBM14	A. Bonfietti, M. Lombardi, L. Benini, M. Milano	CROSS cyclic resource-constrained scheduling solver	Yes	[109]	2014	Artificial Intelligence	28	8	15	1304	1680
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	384	793
BonfiettiLM13 BonfiettiLM13	A. Bonfietti, M. Lombardi, M. Milano	De-Cycling Cyclic Scheduling Problems	Yes	[110]	2013	ICAPS 2013	5	0	0	383	804
LombardiM13 LombardiM13	M. Lombardi, M. Milano	A Min-Flow Algorithm for Minimal Critical Set Detection in Resource Constrained Project Scheduling	Yes	[410]	2013	ICAPS 2013	2	0	0	526	811
LombardiMB13 LombardiMB13	M. Lombardi, M. Milano, L. Benini	Robust Scheduling of Task Graphs under Execution Time Uncertainty	Yes	[411]	2013	IEEE Transactions on Computers	14	28	29	1402	1690
BonfiettiLBM12 BonfiettiLBM12	A. Bonfietti, M. Lombardi, L. Benini, M. Milano	Global Cyclic Cumulative Constraint	Yes	[108]	2012	CPAIOR 2012	16	2	11	382	818
LombardiM12 LombardiM12	M. Lombardi, M. Milano	Optimal methods for resource allocation and scheduling: a cross-disciplinary survey	Yes	[409]	2012	Constraints An Int. J.	35	39	68	1400	1697
LombardiM12a LombardiM12a	M. Lombardi, M. Milano	A min-flow algorithm for Minimal Critical Set detection in Resource Constrained Project Scheduling	Yes	[408]	2012	Artificial Intelligence	10	3	13	1401	1698
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	1296	1709
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	381	831
LombardiBMB11 LombardiBMB11	M. Lombardi, A. Bonfietti, M. Milano, L. Benini	Precedence Constraint Posting for Cyclic Scheduling Problems	Yes	[404]	2011	CPAIOR 2011	17	1	13	523	840
Lombardi10 Lombardi10	M. Lombardi	Hybrid Methods for Resource Allocation and Scheduling Problems in Deterministic and Stochastic Environments	Yes	[402]	2010	University of Bologna, Italy	175	0	0	2871	n/a
LombardiM10 LombardiM10	M. Lombardi, M. Milano	Constraint Based Scheduling to Deal with Uncertain Durations and Self-Timed Execution	Yes	[407]	2010	CP 2010	15	1	11	525	850
LombardiM10a LombardiM10a	M. Lombardi, M. Milano	Allocation and scheduling of Conditional Task Graphs	Yes	[406]	2010	Artificial Intelligence	30	8	24	1399	1724
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	[412]	2010	Journal of Scheduling	31	24	41	1403	1725
LombardiM09 LombardiM09	M. Lombardi, M. Milano	A Precedence Constraint Posting Approach for the RCPSP with Time Lags and Variable Durations	Yes	[405]	2009	CP 2009	15	7	12	524	859

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
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	372	869
HoeveGSL07 HoeveGSL07	Willem-Jan van Hoeve, Carla P. Gomes, B. Selman, M. Lombardi	Optimal Multi-Agent Scheduling with Constraint Programming	Yes	[619]	2007	AAAI 2007	6	0	0	474	882

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	1323	1560
Hooker19 Hooker19	John N. Hooker	Logic-Based Benders Decomposition for Large-Scale Optimization	Yes	[316]	2019	Large Scale Optimization in Supply Chains and Smart Manufacturing	26	8	0	2899	n/a
Hooker17 Hooker17	John N. Hooker	Job Sequencing Bounds from Decision Diagrams	Yes	[315]	2017	CP 2017	14	6	24	477	744
HookerH17 HookerH17	John N. Hooker, Willem-Jan van Hoeve	Constraint programming and operations research	Yes	[318]	2017	Constraints An Int. J.	24	12	189	1368	1648
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	1314	1657
HechingH16 HechingH16	Aliza R. Heching, John N. Hooker	Scheduling Home Hospice Care with Logic-Based Benders Decomposition	Yes	[292]	2016	CPAIOR 2016	11	10	0	465	761
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	[283]	2014	Computers Chemical Engineering	33	381	176	1357	1682
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	403	806
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	1315	1710
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	405	847
Hooker10 Hooker10	John N. Hooker	Hybrid Modeling	No	[314]	2010	Hybrid Optimization	null	9	39	No	n/a
Hooker07 Hooker07	John N. Hooker	Planning and Scheduling by Logic-Based Benders Decomposition	Yes	[313]	2007	Operations Research	29	181	19	1367	1750
Hooker06 Hooker06	John N. Hooker	An Integrated Method for Planning and Scheduling to Minimize Tardiness	Yes	[312]	2006	Constraints An Int. J.	19	19	13	1366	1753
Hooker05 Hooker05	John N. Hooker	A Hybrid Method for the Planning and Scheduling	Yes	[310]	2005	Constraints An Int. J.	17	68	11	1365	1759
Hooker05a Hooker05a	John N. Hooker	Planning and Scheduling to Minimize Tardiness	Yes	[311]	2005	CP 2005	14	30	10	476	909
Hooker04 Hooker04	John N. Hooker	A Hybrid Method for Planning and Scheduling	Yes	[309]	2004	CP 2004	12	39	9	475	921
HookerO03 HookerO03	John N. Hooker, G. Ottosson	Logic-based Benders decomposition	Yes	[317]	2003	Mathematical Programming	28	317	0	1369	1764
HookerY02 HookerY02	John N. Hooker, H. Yan	A Relaxation of the Cumulative Constraint	Yes	[319]	2002	CP 2002	5	8	7	478	942
Hooker00 Hooker00	John N. Hooker	Logic Based Methods for Optimization: Combining Optimization and Constraint Satisfaction	No	[308]	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	[332]	2023	CP 2023	16	0	0	483	655
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	[289]	2022	IJCAI 2022	7	0	0	463	670
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	339	683
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	345	685
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	338	695
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	448	697
HebrardHJMPV16 HebrardHJMPV16	E. Hebrard, M. Huguet, N. Jozefowiez, A. Maillard, C. Pralet, G. Verfaillie	Approximation of the parallel machine scheduling problem with additional unit resources	Yes	[290]	2016	Discret. Appl. Math.	10	9	8	1359	1660
GrimesH15 GrimesH15	D. Grimes, E. Hebrard	Solving Variants of the Job Shop Scheduling Problem Through Conflict-Directed Search	Yes	[261]	2015	INFORMS Journal on Computing	17	12	41	1345	1670
SialaAH15 SialaAH15	M. Siala, C. Artigues, E. Hebrard	Two Clause Learning Approaches for Disjunctive Scheduling	Yes	[563]	2015	CP 2015	10	4	17	586	786
SimoninAHL15 SimoninAHL15	G. Simonin, C. Artigues, E. Hebrard, P. Lopez	Scheduling scientific experiments for comet exploration	Yes	[565]	2015	Constraints An Int. J.	23	4	5	1474	1677
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	374	791
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	375	817
SimoninAHL12 SimoninAHL12	G. Simonin, C. Artigues, E. Hebrard, P. Lopez	Scheduling Scientific Experiments on the Rosetta/Philae Mission	Yes	[564]	2012	CP 2012	15	3	8	587	827
GrimesH11 GrimesH11	D. Grimes, E. Hebrard	Models and Strategies for Variants of the Job Shop Scheduling Problem	Yes	[260]	2011	CP 2011	17	5	18	454	835
GrimesH10 GrimesH10	D. Grimes, E. Hebrard	Job Shop Scheduling with Setup Times and Maximal Time-Lags: A Simple Constraint Programming Approach	Yes	[259]	2010	CPAIOR 2010	15	13	20	453	849
GrimesHM09 GrimesHM09	D. Grimes, E. Hebrard, A. Malapert	Closing the Open Shop: Contradicting Conventional Wisdom	Yes	[262]	2009	CP 2009	9	15	12	455	857
HebrardTW05 HebrardTW05	E. Hebrard, P. Tyler, T. Walsh	Computing Super-Schedules	Yes	[291]	2005	CP 2005	1	0	3	464	908

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	[332]	2023	CP 2023	16	0	0	483	655
JuvinHL23 JuvinHL23	C. Juvin, L. Houssin, P. Lopez	Constraint Programming for the Robust Two-Machine Flow-Shop Scheduling Problem with Budgeted Uncertainty	Yes	[334]	2023	CPAIOR 2023	16	0	11	484	656
JuvinHL23a JuvinHL23a	C. Juvin, L. Houssin, P. Lopez	Logic-based Benders decomposition for the preemptive flexible job-shop scheduling problem	Yes	[335]	2023	Computers Operations Research	17	0	40	1377	1542
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	[289]	2022	IJCAI 2022	7	0	0	463	670
JuvinHL22 JuvinHL22	C. Juvin, L. Houssin, P. Lopez	Logic-Based Benders Decomposition for the Preemptive Flexible Job-Shop Scheduling Problem	Yes	[333]	2022	SSRN Electronic Journal	32	0	29	1376	1567
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	[511]	2020	International Journal of Production Research	18	8	23	1453	1607
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	[471]	2019	Discret. Appl. Math.	16	5	12	1431	1620
NattafAL17 NattafAL17	M. Nattaf, C. Artigues, P. Lopez	Cumulative scheduling with variable task profiles and concave piecewise linear processing rate functions	Yes	[468]	2017	Constraints An Int. J.	18	5	10	1428	1650
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	[469]	2016	OR Spectr.	34	10	15	1429	1662
NattafAL15 NattafAL15	M. Nattaf, C. Artigues, P. Lopez	A hybrid exact method for a scheduling problem with a continuous resource and energy constraints	Yes	[467]	2015	Constraints An Int. J.	21	14	13	1427	1673
SimoninAHL15 SimoninAHL15	G. Simonin, C. Artigues, E. Hebrard, P. Lopez	Scheduling scientific experiments for comet exploration	Yes	[565]	2015	Constraints An Int. J.	23	4	5	1474	1677
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	375	817
SimoninAHL12 SimoninAHL12	G. Simonin, C. Artigues, E. Hebrard, P. Lopez	Scheduling Scientific Experiments on the Rosetta/Philae Mission	Yes	[564]	2012	CP 2012	15	3	8	587	827
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	[379]	2011	CPAIOR 2011	14	3	15	509	839
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	[612]	2011	Computers Industrial Engineering	7	11	17	1490	1720
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	[414]	2000	Eur. J. Control	4	0	0	1405	1781
TorresL00 TorresL00	P. Torres, P. Lopez	On Not-First/Not-Last conditions in disjunctive scheduling	Yes	[601]	2000	European Journal of Operational Research	12	26	13	1486	1786

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. Povéda, N. Álvarez, C. Artigues	Partially Preemptive Multi Skill/Mode Resource-Constrained Project Scheduling with Generalized Precedence Relations and Calendars	Yes	[514]	2023	CP 2023	21	0	0	564	661
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	[289]	2022	IJCAI 2022	7	0	0	463	670
PohlAK22 PohlAK22	M. Pohl, C. Artigues, R. Kolisch	Solving the time-discrete winter runway scheduling problem: A column generation and constraint programming approach	Yes	[510]	2022	European Journal of Operational Research	16	4	31	1452	1574
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	345	685
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	[511]	2020	International Journal of Production Research	18	8	23	1453	1607
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	[471]	2019	Discret. Appl. Math.	16	5	12	1431	1620
NattafAL17 NattafAL17	M. Nattaf, C. Artigues, P. Lopez	Cumulative scheduling with variable task profiles and concave piecewise linear processing rate functions	Yes	[468]	2017	Constraints An Int. J.	18	5	10	1428	1650
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	[469]	2016	OR Spectr.	34	10	15	1429	1662
NattafAL15 NattafAL15	M. Nattaf, C. Artigues, P. Lopez	A hybrid exact method for a scheduling problem with a continuous resource and energy constraints	Yes	[467]	2015	Constraints An Int. J.	21	14	13	1427	1673
SialaAH15 SialaAH15	M. Siala, C. Artigues, E. Hebrard	Two Clause Learning Approaches for Disjunctive Scheduling	Yes	[563]	2015	CP 2015	10	4	17	586	786
SimoninAHL15 SimoninAHL15	G. Simonin, C. Artigues, E. Hebrard, P. Lopez	Scheduling scientific experiments for comet exploration	Yes	[565]	2015	Constraints An Int. J.	23	4	5	1474	1677
SimoninAHL12 SimoninAHL12	G. Simonin, C. Artigues, E. Hebrard, P. Lopez	Scheduling Scientific Experiments on the Rosetta/Philae Mission	Yes	[564]	2012	CP 2012	15	3	8	587	827
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	[486]	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	1320	1758
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	344	918
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	1273	1776

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	1311	1599
ThomasKS20 ThomasKS20	C. Thomas, R. Kameugne, P. Schaus	Insertion Sequence Variables for Hybrid Routing and Scheduling Problems	Yes	[596]	2020	CPAIOR 2020	18	0	16	605	704
HoundjiSW19 HoundjiSW19	Vinasétan Ratheil Houndji, P. Schaus, Laurence A. Wolsey	The item dependent stockingcost constraint	Yes	[320]	2019	Constraints An Int. J.	27	0	17	1370	1618
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	394	726
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	1312	1632
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	393	740
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	398	757
DejemeppeCS15 DejemeppeCS15	C. Dejemeppe, Sascha Van Cauwelaert, P. Schaus	The Unary Resource with Transition Times	Yes	[174]	2015	CP 2015	16	5	11	412	774
GayHLS15 GayHLS15	S. Gay, R. Hartert, C. Lecoutre, P. Schaus	Conflict Ordering Search for Scheduling Problems	Yes	[231]	2015	CP 2015	9	20	15	435	776
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	436	777
GayHS15a GayHS15a	S. Gay, R. Hartert, P. Schaus	Time-Table Disjunctive Reasoning for the Cumulative Constraint	Yes	[233]	2015	CPAIOR 2015	16	5	12	437	778
GaySS14 GaySS14	S. Gay, P. Schaus, Vivian De Smedt	Continuous Casting Scheduling with Constraint Programming	Yes	[234]	2014	CP 2014	15	7	11	438	799
HoundjiSWD14 HoundjiSWD14	Vinasétan Ratheil Houndji, P. Schaus, Laurence A. Wolsey, Y. Deville	The StockingCost Constraint	Yes	[321]	2014	CP 2014	16	5	7	479	800
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	[541]	2011	Constraints An Int. J.	23	14	5	1466	1717
SchausD08 SchausD08	P. Schaus, Y. Deville	A Global Constraint for Bin-Packing with Precedences: Application to the Assembly Line Balancing Problem	Yes	[540]	2008	AAAI 2008	6	0	0	577	876

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 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	342	667
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	341	684
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	1271	1595
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	337	722
HurleyOS16 HurleyOS16	B. Hurley, B. O'Sullivan, H. Simonis	ICON Loop Energy Show Case	Yes	[323]	2016	Data Mining and Constraint Programming - Foundations of a Cross-Disciplinary Approach	14	0	16	2900	n/a
GrimesIOS14 GrimesIOS14	D. Grimes, G. Ifrim, B. O'Sullivan, H. Simonis	Analyzing the impact of electricity price forecasting on energy cost-aware scheduling	Yes	[263]	2014	Sustain. Comput. Informatics Syst.	16	6	7	1346	1681
IfrimOS12 IfrimOS12	G. Ifrim, B. O'Sullivan, H. Simonis	Properties of Energy-Price Forecasts for Scheduling	Yes	[324]	2012	CP 2012	16	6	20	480	822
SimonisH11 SimonisH11	H. Simonis, T. Hadzic	A Resource Cost Aware Cumulative	Yes	[572]	2011	CSCLP 2011	14	3	9	592	841
Simonis07 Simonis07	H. Simonis	Models for Global Constraint Applications	Yes	[569]	2007	Constraints An Int. J.	30	10	17	1475	1752
SimonisCK00 SimonisCK00	H. Simonis, P. Charlier, P. Kay	Constraint Handling in an Integrated Transportation Problem	Yes	[570]	2000	IEEE Intell. Syst.	7	11	5	1476	1784
Simonis99 Simonis99	H. Simonis	Building Industrial Applications with Constraint Programming	Yes	[568]	1999	CCL'99 1999	39	5	18	590	954
Simonis95 Simonis95	H. Simonis	The CHIP System and Its Applications	Yes	[567]	1995	CP 1995	4	7	3	588	970
Simonis95a Simonis95a	H. Simonis	Application Development with the CHIP System	Yes	[566]	1995	CONTESSA 1995	21	1	12	589	971
SimonisC95 SimonisC95	H. Simonis, T. Cornelissens	Modelling Producer/Consumer Constraints	Yes	[571]	1995	CP 1995	14	17	8	591	972
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	1321	1804

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	G. Madi-Wamba, Y. Li, A. Orgerie, N. Beldiceanu, J. Menaud	Green Energy Aware Scheduling Problem in Virtualized Datacenters	Yes	[422]	2017	ICPADS 2017	8	1	8	531	747
Madi-WambaB16 Madi-WambaB16	G. Madi-Wamba, N. Beldiceanu	The TaskIntersection Constraint	Yes	[421]	2016	CPAIOR 2016	16	0	0	530	765
LetortCB15 LetortCB15	A. Letort, M. Carlsson, N. Beldiceanu	Synchronized sweep algorithms for scalable scheduling constraints	Yes	[389]	2015	Constraints An Int. J.	52	2	14	1395	1672
LetortCB13 LetortCB13	A. Letort, M. Carlsson, N. Beldiceanu	A Synchronized Sweep Algorithm for the *k-dimensional cumulative* Constraint	Yes	[388]	2013	CPAIOR 2013	16	3	10	512	810
LetortBC12 LetortBC12	A. Letort, N. Beldiceanu, M. Carlsson	A Scalable Sweep Algorithm for the cumulative Constraint	Yes	[387]	2012	CP 2012	16	18	12	511	823
BeldiceanuCDP11 BeldiceanuCDP11	N. Beldiceanu, M. Carlsson, S. Demassey, E. Poder	New filtering for the *cumulative* constraint in the context of non-overlapping rectangles	Yes	[80]	2011	Annals of Operations Research	24	8	8	1293	1708
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	404	833
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	367	868
PoderB08 PoderB08	E. Poder, N. Beldiceanu	Filtering for a Continuous Multi-Resources cumulative Constraint with Resource Consumption and Production	Yes	[508]	2008	ICAPS 2008	8	0	0	562	875
BeldiceanuP07 BeldiceanuP07	N. Beldiceanu, E. Poder	A Continuous Multi-resources *cumulative* Constraint with Positive-Negative Resource Consumption-Production	Yes	[82]	2007	CPAIOR 2007	15	4	7	368	879
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	[509]	2004	European Journal of Operational Research	16	7	8	1451	1762
BeldiceanuC02 BeldiceanuC02	N. Beldiceanu, M. Carlsson	A New Multi-resource cumulatives Constraint with Negative Heights	Yes	[79]	2002	CP 2002	17	33	9	366	939
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	1268	1802

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 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	1305	1631
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	1307	1656
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	390	755
BonfiettiLBM14 BonfiettiLBM14	A. Bonfietti, M. Lombardi, L. Benini, M. Milano	CROSS cyclic resource-constrained scheduling solver	Yes	[109]	2014	Artificial Intelligence	28	8	15	1304	1680
LombardiMB13 LombardiMB13	M. Lombardi, M. Milano, L. Benini	Robust Scheduling of Task Graphs under Execution Time Uncertainty	Yes	[411]	2013	IEEE Transactions on Computers	14	28	29	1402	1690
BonfiettiLBM12 BonfiettiLBM12	A. Bonfietti, M. Lombardi, L. Benini, M. Milano	Global Cyclic Cumulative Constraint	Yes	[108]	2012	CPAIOR 2012	16	2	11	382	818
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	1296	1709
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	381	831
LombardiBMB11 LombardiBMB11	M. Lombardi, A. Bonfietti, M. Milano, L. Benini	Precedence Constraint Posting for Cyclic Scheduling Problems	Yes	[404]	2011	CPAIOR 2011	17	1	13	523	840
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	[412]	2010	Journal of Scheduling	31	24	41	1403	1725
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	[535]	2009	IEEE Trans. Comput. Aided Des. Integr. Circuits Syst.	14	9	27	1462	1738
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	372	869
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	371	891

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	[417]	2020	Computers Operations Research	20	30	18	1407	1603
Laborie18a Laborie18a	P. Laborie	An Update on the Comparison of MIP, CP and Hybrid Approaches for Mixed Resource Allocation and Scheduling	Yes	[375]	2018	CPAIOR 2018	9	18	10	507	731
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	[376]	2018	Constraints An Int. J.	41	148	35	1392	1641
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	537	782
VilimLS15 VilimLS15	P. Vilím, P. Laborie, P. Shaw	Failure-Directed Search for Constraint-Based Scheduling	Yes	[631]	2015	CPAIOR 2015	17	31	19	626	787
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	1298	1731
Laborie09 Laborie09	P. Laborie	IBM ILOG CP Optimizer for Detailed Scheduling Illustrated on Three Problems	Yes	[374]	2009	CPAIOR 2009	15	53	2	506	858
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. Demassey, P. Laborie	Lower Bounds for Resource Constrained Project Scheduling Problem	No	[486]	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	447	907
Laborie03 Laborie03	P. Laborie	Algorithms for propagating resource constraints in AI planning and scheduling: Existing approaches and new results	Yes	[373]	2003	Artificial Intelligence	38	128	10	1391	1766
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	426	951

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. Appl. Math.	10	3	13	1279	1630
Baptiste09 Baptiste09	P. Baptiste	Constraint-Based Schedulers, Do They Really Work?	Yes	[45]	2009	CP 2009	1	0	0	351	856
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. Demassey, P. Laborie	Lower Bounds for Resource Constrained Project Scheduling Problem	No	[486]	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	346	899
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	2854	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	1280	1777
PapaB98 PapaB98	Claude Le Pape, P. Baptiste	Resource Constraints for Preemptive Job-shop Scheduling	Yes	[500]	1998	Constraints An Int. J.	25	14	0	1448	1792
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	353	960
PapeB97 PapeB97	Claude Le Pape, P. Baptiste	A Constraint Programming Library for Preemptive and Non-Preemptive Scheduling	No	[499]	1997	PACT 1997	20	0	0	No	964

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	[579]	2022	ICAART 2022	8	0	0	595	677
JelinekB16 JelinekB16	J. Jelínek, R. Barták	Using Constraint Logic Programming to Schedule Solar Array Operations on the International Space Station	Yes	[329]	2016	PADL 2016	10	0	5	481	762
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	357	771
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	1282	1706
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	1281	1721
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	1283	1722
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	[630]	2005	Constraints An Int. J.	23	21	5	1492	1760
VilimBC04 VilimBC04	P. Vilím, R. Barták, O. Cepek	Unary Resource Constraint with Optional Activities	Yes	[629]	2004	CP 2004	15	13	4	625	927
Bartak02 Bartak02	R. Barták	Visopt ShopFloor: On the Edge of Planning and Scheduling	Yes	[54]	2002	CP 2002	16	6	4	355	937
Bartak02a Bartak02a	R. Barták	Visopt ShopFloor: Going Beyond Traditional Scheduling	Yes	[53]	2002	ERCIM/CologNet 2002	15	1	9	356	938

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	[376]	2018	Constraints An Int. J.	41	148	35	1392	1641
VilimLS15 VilimLS15	P. Vilím, P. Laborie, P. Shaw	Failure-Directed Search for Constraint-Based Scheduling	Yes	[631]	2015	CPAIOR 2015	17	31	19	626	787
Vilim11 Vilim11	P. Vilím	Timetable Edge Finding Filtering Algorithm for Discrete Cumulative Resources	Yes	[628]	2011	CPAIOR 2011	16	28	6	624	842
Vilim09 Vilim09	P. Vilím	Edge Finding Filtering Algorithm for Discrete Cumulative Resources in $O(kn \log n)\{\mathcal{O}\}(kn \{\rm log\} n)$	Yes	[626]	2009	CP 2009	15	25	4	622	864
Vilim09a Vilim09a	P. Vilím	Max Energy Filtering Algorithm for Discrete Cumulative Resources	Yes	[627]	2009	CPAIOR 2009	15	13	4	623	865
Vilim05 Vilim05	P. Vilím	Computing Explanations for the Unary Resource Constraint	Yes	[625]	2005	CPAIOR 2005	14	5	8	621	914
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	[630]	2005	Constraints An Int. J.	23	21	5	1492	1760
Vilim04 Vilim04	P. Vilím	O(n log n) Filtering Algorithms for Unary Resource Constraint	Yes	[624]	2004	CPAIOR 2004	13	22	5	620	926
VilimBC04 VilimBC04	P. Vilím, R. Barták, O. Cepek	Unary Resource Constraint with Optional Activities	Yes	[629]	2004	CP 2004	15	13	4	625	927
Vilim03 Vilim03	P. Vilím	Computing Explanations for Global Scheduling Constraints	Yes	[623]	2003	CP 2003	1	1	1	619	935
Vilim02 Vilim02	P. Vilím	Batch Processing with Sequence Dependent Setup Times	Yes	[622]	2002	CP 2002	1	6	1	618	945

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	[637]	2020	Constraints An Int. J.	19	5	18	1495	1611
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	[288]	2018	CP 2018	18	6	26	462	728
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	[595]	2014	J. Heuristics	34	19	18	1483	1686
MilanoW09 MilanoW09	M. Milano, M. Wallace	Integrating Operations Research in Constraint Programming	Yes	[446]	2009	Annals of Operations Research	40	34	46	1419	1736
SchuttFSW09 SchuttFSW09	A. Schutt, T. Feydy, Peter J. Stuckey, M. Wallace	Why Cumulative Decomposition Is Not as Bad as It Sounds	Yes	[548]	2009	CP 2009	16	34	11	581	862
MilanoW06 MilanoW06	M. Milano, M. Wallace	Integrating operations research in constraint programming	Yes	[445]	2006	4OR	45	18	46	1418	1755
Wallace06 Wallace06	M. Wallace	Hybrid Algorithms in Constraint Programming	Yes	[636]	2006	CSCLP 2006	32	1	35	627	897
SakkoutW00 SakkoutW00	Hani El Sakkout, M. Wallace	Probe Backtrack Search for Minimal Perturbation in Dynamic Scheduling	Yes	[539]	2000	Constraints An Int. J.	30	73	0	1465	1782
RodosekW98 RodosekW98	R. Rodosek, M. Wallace	A Generic Model and Hybrid Algorithm for Hoist Scheduling Problems	Yes	[526]	1998	CP 1998	15	19	10	572	959
Wallace96 Wallace96	M. Wallace	Practical Applications of Constraint Programming	Yes	[635]	1996	Constraints An Int. J.	30	87	55	1494	1799
Wallace94 Wallace94	M. Wallace	Applying Constraints for Scheduling	No	[634]	1994	Constraint Programming 1994	19	0	0	No	976

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	1303	1655
BonfiettiZLM16 BonfiettiZLM16	A. Bonfietti, A. Zanarini, M. Lombardi, M. Milano	The Multirate Resource Constraint	Yes	[113]	2016	CP 2016	17	0	11	386	753
LombardiBM15 LombardiBM15	M. Lombardi, A. Bonfietti, M. Milano	Deterministic Estimation of the Expected Makespan of a POS Under Duration Uncertainty	Yes	[403]	2015	CP 2015	16	0	8	522	781
BonfiettiLBM14 BonfiettiLBM14	A. Bonfietti, M. Lombardi, L. Benini, M. Milano	CROSS cyclic resource-constrained scheduling solver	Yes	[109]	2014	Artificial Intelligence	28	8	15	1304	1680
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	384	793
BonfiettiLM13 BonfiettiLM13	A. Bonfietti, M. Lombardi, M. Milano	De-Cycling Cyclic Scheduling Problems	Yes	[110]	2013	ICAPS 2013	5	0	0	383	804
BonfiettiLBM12 BonfiettiLBM12	A. Bonfietti, M. Lombardi, L. Benini, M. Milano	Global Cyclic Cumulative Constraint	Yes	[108]	2012	CPAIOR 2012	16	2	11	382	818
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	385	819
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	381	831
LombardiBMB11 LombardiBMB11	M. Lombardi, A. Bonfietti, M. Milano, L. Benini	Precedence Constraint Posting for Cyclic Scheduling Problems	Yes	[404]	2011	CPAIOR 2011	17	1	13	523	840

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	C. Bonnin, A. Malapert, M. Nattaf, M. Espinouse	Toward a Global Constraint for Minimizing the Flowtime	Yes	[114]	2024	ICORES 2024	12	0	0	387	651
PenzDN23 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	[503]	2023	Computers Operations Research	13	0	34	1450	1549
NattafM20 NattafM20	M. Nattaf, A. Malapert	Filtering Rules for Flow Time Minimization in a Parallel Machine Scheduling Problem	Yes	[472]	2020	CP 2020	16	0	6	549	702
MalapertN19 MalapertN19	A. Malapert, M. Nattaf	A New CP-Approach for a Parallel Machine Scheduling Problem with Time Constraints on Machine Qualifications	Yes	[427]	2019	CPAIOR 2019	17	1	7	534	717
NattafDYW19 NattafDYW19	M. Nattaf, S. Dauzère-Pérès, C. Yugma, C. Wu	Parallel machine scheduling with time constraints on machine qualifications	Yes	[470]	2019	Computers Operations Research	16	14	21	1430	1619
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	[471]	2019	Discret. Appl. Math.	16	5	12	1431	1620
NattafAL17 NattafAL17	M. Nattaf, C. Artigues, P. Lopez	Cumulative scheduling with variable task profiles and concave piecewise linear processing rate functions	Yes	[468]	2017	Constraints An Int. J.	18	5	10	1428	1650
Nattaf16 Nattaf16	M. Nattaf	Ordonnancement sous contraintes d'énergie	Yes	[466]	2016	UPS Toulouse - Université Toulouse 3 Paul Sabatier	199	0	0	2876	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	[469]	2016	OR Spectr.	34	10	15	1429	1662
NattafAL15 NattafAL15	M. Nattaf, C. Artigues, P. Lopez	A hybrid exact method for a scheduling problem with a continuous resource and energy constraints	Yes	[467]	2015	Constraints An Int. J.	21	14	13	1427	1673

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	427	758
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	425	775
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	1327	1668
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	[541]	2011	Constraints An Int. J.	23	14	5	1466	1717
MonetteDH09 MonetteDH09	J. Monette, Y. Deville, Pascal Van Hentenryck	Just-In-Time Scheduling with Constraint Programming	Yes	[450]	2009	ICAPS 2009	8	0	0	541	860
DoomsH08 DoomsH08	G. Dooms, Pascal Van Hentenryck	Gap Reduction Techniques for Online Stochastic Project Scheduling	Yes	[187]	2008	CPAIOR 2008	16	1	2	418	870
HentenryckM08 HentenryckM08	Pascal Van Hentenryck, L. Michel	The Steel Mill Slab Design Problem Revisited	Yes	[303]	2008	CPAIOR 2008	5	13	3	470	871
MercierH08 MercierH08	L. Mercier, Pascal Van Hentenryck	Edge Finding for Cumulative Scheduling	Yes	[441]	2008	INFORMS Journal on Computing	21	32	5	1417	1746
HentenryckM04 HentenryckM04	Pascal Van Hentenryck, L. Michel	Scheduling Abstractions for Local Search	Yes	[302]	2004	CPAIOR 2004	16	12	14	469	920
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	1321	1804

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	null	2	34	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
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	1280	1777
NuijtenP98 NuijtenP98	W. Nuijten, Claude Le Pape	Constraint-Based Job Shop Scheduling with \sc Ilog Scheduler	Yes	[484]	1998	J. Heuristics	16	42	0	1439	1791
PapaB98 PapaB98	Claude Le Pape, P. Baptiste	Resource Constraints for Preemptive Job-shop Scheduling	Yes	[500]	1998	Constraints An Int. J.	25	14	0	1448	1792
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	353	960
PapeB97 PapeB97	Claude Le Pape, P. Baptiste	A Constraint Programming Library for Preemptive and Non-Preemptive Scheduling	No	[499]	1997	PACT 1997	20	0	0	No	964
Pape94 Pape94	Claude Le Pape	Implementation of resource constraints in ILOG SCHEDULE: a library for the development of constraint-based scheduling systems	Yes	[498]	1994	Intelligent Systems Engineering	34	98	0	1449	1801

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 LacknerMMWW23	M. Lackner, C. Mrkvicka, N. Musliu, D. Walkiewicz, F. Winter	Exact methods for the Oven Scheduling Problem	Yes	[378]	2023	Constraints An Int. J.	42	0	32	1393	1543
WinterMMW22 WinterMMW22	F. Winter, S. Meiswinkel, N. Musliu, D. Walkiewicz	Modeling and Solving Parallel Machine Scheduling with Contamination Constraints in the Agricultural Industry	Yes	[645]	2022	CP 2022	18	0	0	632	680
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	439	688
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	441	689
LacknerMMWW21 LacknerMMWW21	M. Lackner, C. Mrkvicka, N. Musliu, D. Walkiewicz, F. Winter	Minimizing Cumulative Batch Processing Time for an Industrial Oven Scheduling Problem	Yes	[377]	2021	CP 2021	18	0	0	508	694
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	440	714
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	1517	1629
MusliuSS18 MusliuSS18	N. Musliu, A. Schutt, Peter J. Stuckey	Solver Independent Rotating Workforce Scheduling	Yes	[460]	2018	CPAIOR 2018	17	7	23	548	732
KletzanderM17 KletzanderM17	L. Kletzander, N. Musliu	A Multi-stage Simulated Annealing Algorithm for the Torpedo Scheduling Problem	Yes	[351]	2017	CPAIOR 2017	15	1	9	494	745

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 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	389	668
OuelletQ22 OuelletQ22	Y. Ouellet, C. Quimper	A MinCumulative Resource Constraint	Yes	[493]	2022	CPAIOR 2022	17	1	22	556	674
Mercier-AubinGQ20 Mercier-AubinGQ20	A. Mercier-Aubin, J. Gaudreault, C. Quimper	Leveraging Constraint Scheduling: A Case Study to the Textile Industry	Yes	[442]	2020	CPAIOR 2020	13	2	13	538	701
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	1328	1633
KameugneFGOQ18 KameugneFGOQ18	R. Kameugne, Sévérine Betmbe Fetgo, V. Gingras, Y. Ouellet, C. Quimper	Horizontally Elastic Not-First/Not-Last Filtering Algorithm for Cumulative Resource Constraint	Yes	[339]	2018	CPAIOR 2018	17	1	12	486	730
OuelletQ18 OuelletQ18	Y. Ouellet, C. Quimper	A O(n \log ^2 n) Checker and O(n^2 \log n) Filtering Algorithm for the Energetic Reasoning	Yes	[492]	2018	CPAIOR 2018	18	6	16	555	735
GingrasQ16 GingrasQ16	V. Gingras, C. Quimper	Generalizing the Edge-Finder Rule for the Cumulative Constraint	Yes	[246]	2016	IJCAI 2016	7	0	0	446	760
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	374	791
OuelletQ13 OuelletQ13	P. Ouellet, C. Quimper	Time-Table Extended-Edge-Finding for the Cumulative Constraint	Yes	[491]	2013	CP 2013	16	12	14	554	813

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	[607]	2018	Journal of Scheduling	17	8	26	1488	1645
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	[609]	2017	J. Artif. Intell. Res.	68	12	0	1489	1653
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	[610]	2017	IJCAI 2017	5	1	0	613	750
TranAB16 TranAB16	Tony T. Tran, A. Araujo, J. Christopher Beck	Decomposition Methods for the Parallel Machine Scheduling Problem with Setups	Yes	[604]	2016	INFORMS Journal on Computing	13	72	28	1487	1665
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	[606]	2016	SOCS 2016	9	3	0	611	769
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	[611]	2016	AAAI 2016	9	0	0	614	770
TerekhovTDB14 TerekhovTDB14	D. Terekhov, Tony T. Tran, Douglas G. Down, J. Christopher Beck	Integrating Queueing Theory and Scheduling for Dynamic Scheduling Problems	Yes	[591]	2014	J. Artif. Intell. Res.	38	12	0	1482	1685
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	[608]	2013	ICAPS 2013	9	0	0	612	816
TranB12 TranB12	Tony T. Tran, J. Christopher Beck	Logic-based Benders Decomposition for Alternative Resource Scheduling with Sequence Dependent Setups	Yes	[605]	2012	ECAI 2012	6	0	0	610	828

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 WessenCS20	J. Wessén, M. Carlsson, C. Schulte	Scheduling of Dual-Arm Multi-tool Assembly Robots and Workspace Layout Optimization	Yes	[643]	2020	CPAIOR 2020	10	2	11	631	706
MossigeGSMC17 MossigeGSMC17	M. Mossige, A. Gotlieb, H. Spieker, H. Meling, M. Carlsson	Time-Aware Test Case Execution Scheduling for Cyber-Physical Systems	Yes	[453]	2017	CP 2017	18	6	33	542	748
LetortCB15 LetortCB15	A. Letort, M. Carlsson, N. Beldiceanu	Synchronized sweep algorithms for scalable scheduling constraints	Yes	[389]	2015	Constraints An Int. J.	52	2	14	1395	1672
LetortCB13 LetortCB13	A. Letort, M. Carlsson, N. Beldiceanu	A Synchronized Sweep Algorithm for the *k-dimensional cumulative* Constraint	Yes	[388]	2013	CPAIOR 2013	16	3	10	512	810
LetortBC12 LetortBC12	A. Letort, N. Beldiceanu, M. Carlsson	A Scalable Sweep Algorithm for the cumulative Constraint	Yes	[387]	2012	CP 2012	16	18	12	511	823
BeldiceanuCDP11 BeldiceanuCDP11	N. Beldiceanu, M. Carlsson, S. Demassey, E. Poder	New filtering for the *cumulative* constraint in the context of non-overlapping rectangles	Yes	[80]	2011	Annals of Operations Research	24	8	8	1293	1708
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	367	868
BeldiceanuC02 BeldiceanuC02	N. Beldiceanu, M. Carlsson	A New Multi-resource cumulatives Constraint with Negative Heights	Yes	[79]	2002	CP 2002	17	33	9	366	939

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	[656]	2017	CP 2017	10	6	21	641	751
SchuttFSW15 SchuttFSW15	A. Schutt, T. Feydy, Peter J. Stuckey, Mark G. Wallace	A Satisfiability Solving Approach	No	[552]	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	[547]	2013	CP 2013	17	10	20	579	814
SchuttFS13a SchuttFS13a	A. Schutt, T. Feydy, Peter J. Stuckey	Explaining Time-Table-Edge-Finding Propagation for the Cumulative Resource Constraint	Yes	[546]	2013	CPAIOR 2013	17	20	27	580	815
SchuttFSW13 SchuttFSW13	A. Schutt, T. Feydy, Peter J. Stuckey, Mark G. Wallace	Solving RCPSP/max by lazy clause generation	Yes	[551]	2013	Journal of Scheduling	17	43	23	1470	1693
SchuttFSW11 SchuttFSW11	A. Schutt, T. Feydy, Peter J. Stuckey, Mark G. Wallace	Explaining the cumulative propagator	Yes	[550]	2011	Constraints An Int. J.	33	57	23	1469	1718
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	[549]	2010	CoRR	37	0	0	1513	1730
SchuttFSW09 SchuttFSW09	A. Schutt, T. Feydy, Peter J. Stuckey, M. Wallace	Why Cumulative Decomposition Is Not as Bad as It Sounds	Yes	[548]	2009	CP 2009	16	34	11	581	862

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	[552]	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	[269]	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	[551]	2013	Journal of Scheduling	17	43	23	1470	1693
GuSW12 GuSW12	H. Gu, Peter J. Stuckey, Mark G. Wallace	Maximising the Net Present Value of Large Resource-Constrained Projects	Yes	[270]	2012	CP 2012	15	5	20	460	820
SchuttCSW12 SchuttCSW12	A. Schutt, G. Chu, Peter J. Stuckey, Mark G. Wallace	Maximising the Net Present Value for Resource-Constrained Project Scheduling	Yes	[545]	2012	CPAIOR 2012	17	18	21	578	825
SchuttFSW11 SchuttFSW11	A. Schutt, T. Feydy, Peter J. Stuckey, Mark G. Wallace	Explaining the cumulative propagator	Yes	[550]	2011	Constraints An Int. J.	33	57	23	1469	1718
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	[549]	2010	CoRR	37	0	0	1513	1730
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

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	394	726
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	1322	1658
PesantRR15 PesantRR15	G. Pesant, G. Rix, L. Rousseau	A Comparative Study of MIP and CP Formulations for the B2B Scheduling Optimization Problem	Yes	[506]	2015	CPAIOR 2015	16	1	7	561	784
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	419	797
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	[426]	2013	ICAPS 2013	2	0	0	533	812
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	[425]	2012	INFORMS Journal on Computing	17	23	21	1408	1699
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	400	832
HachemiGR11 HachemiGR11	Nizar El Hachemi, M. Gendreau, L. Rousseau	A hybrid constraint programming approach to the log-truck scheduling problem	Yes	[276]	2011	Annals of Operations Research	16	32	19	1351	1712

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	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	442	669
Wolf11 Wolf11	A. Wolf	Constraint-Based Modeling and Scheduling of Clinical Pathways	Yes	[648]	2011	CSCLP 2011	17	5	19	636	843
SchuttW10 SchuttW10	A. Schutt, A. Wolf	A New $O(n^2\log n)$ Not-First/Not-Last Pruning Algorithm for Cumulative Resource Constraints	Yes	[554]	2010	CP 2010	15	13	14	583	852
Wolf09 Wolf09	A. Wolf, G. Schrader	Linear Weighted-Task-Sum – Scheduling Prioritized Tasks on a Single Resource	Yes	[650]	2009	INAP 2009	17	1	12	635	866
SchuttWS05 SchuttWS05	A. Schutt, A. Wolf, G. Schrader	Not-First and Not-Last Detection for Cumulative Scheduling in $O(n^3\log n)$	Yes	[555]	2005	INAP 2005	15	6	4	584	913
Wolf05 Wolf05	A. Wolf	Better Propagation for Non-preemptive Single-Resource Constraint Problems	Yes	[647]	2005	CSCLP 2005	15	4	8	634	915
WolfS05 WolfS05	A. Wolf, G. Schrader	$O(n \log n)$ Overload Checking for the Cumulative Constraint and Its Application	Yes	[649]	2005	INAP 2005	14	6	6	637	916
Wolf03 Wolf03	A. Wolf	Pruning while Sweeping over Task Intervals	Yes	[646]	2003	CP 2003	15	11	7	633	936

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	1271	1595
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	337	722
GrimesH15 GrimesH15	D. Grimes, E. Hebrard	Solving Variants of the Job Shop Scheduling Problem Through Conflict-Directed Search	Yes	[261]	2015	INFORMS Journal on Computing	17	12	41	1345	1670
GrimesIOS14 GrimesIOS14	D. Grimes, G. Ifrim, B. O'Sullivan, H. Simonis	Analyzing the impact of electricity price forecasting on energy cost-aware scheduling	Yes	[263]	2014	Sustain. Comput. Informatics Syst.	16	6	7	1346	1681
GrimesH11 GrimesH11	D. Grimes, E. Hebrard	Models and Strategies for Variants of the Job Shop Scheduling Problem	Yes	[260]	2011	CP 2011	17	5	18	454	835
GrimesH10 GrimesH10	D. Grimes, E. Hebrard	Job Shop Scheduling with Setup Times and Maximal Time-Lags: A Simple Constraint Programming Approach	Yes	[259]	2010	CPAIOR 2010	15	13	20	453	849
GrimesHM09 GrimesHM09	D. Grimes, E. Hebrard, A. Malapert	Closing the Open Shop: Contradicting Conventional Wisdom	Yes	[262]	2009	CP 2009	9	15	12	455	857

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	[435]	2023	APMS 2023	14	0	0	536	659
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	[300]	2023	CoRR	42	0	0	1520	1553
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	[299]	2022	Computers Industrial Engineering	16	5	25	1361	1565
VlkHT21 VlkHT21	M. Vlk, Z. Hanzálek, S. Tang	Constraint programming approaches to joint routing and scheduling in time-sensitive networks	Yes	[633]	2021	Computers Industrial Engineering	14	7	22	1493	1591
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	1295	1598
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	370	725
KelbelH11 KelbelH11	J. Kelbel, Z. Hanzálek	Solving production scheduling with earliness/tardiness penalties by constraint programming	Yes	[345]	2011	Journal of Intelligent Manufacturing	10	12	14	1380	1714

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 KameugneFND23	R. Kameugne, Sévérine Betmbe Fetgo, T. Noulamo, Clémentin Tayou Djamégni	Horizontally Elastic Edge Finder Rule for Cumulative Constraint Based on Slack and Density	Yes	[340]	2023	CP 2023	17	0	0	487	657
ThomasKS20 ThomasKS20	C. Thomas, R. Kameugne, P. Schaus	Insertion Sequence Variables for Hybrid Routing and Scheduling Problems	Yes	[596]	2020	CPAIOR 2020	18	0	16	605	704
KameugneFGOQ18 KameugneFGOQ18	R. Kameugne, Sévérine Betmbe Fetgo, V. Gingras, Y. Ouellet, C. Quimper	Horizontally Elastic Not-First/Not-Last Filtering Algorithm for Cumulative Resource Constraint	Yes	[339]	2018	CPAIOR 2018	17	1	12	486	730
Kameugne15 Kameugne15	R. Kameugne	Propagation techniques of resource constraint for cumulative scheduling	Yes	[338]	2015	Constraints An Int. J.	2	0	0	1378	1671
Kameugne14 Kameugne14	R. Kameugne	Techniques de Propagation de la Contrainte de Ressource en Ordonnancement Cumulatif	Yes	[337]	2014	University of Yaounde I, Cameroon	139	0	0	2867	n/a
KameugneFSN14 KameugneFSN14	R. Kameugne, Laure Pauline Fotso, Joseph D. Scott, Y. Ngo-Kateu	A quadratic edge-finding filtering algorithm for cumulative resource constraints	Yes	[342]	2014	Constraints An Int. J.	27	6	10	1379	1683
KameugneFSN11 KameugneFSN11	R. Kameugne, Laure Pauline Fotso, Joseph D. Scott, Y. Ngo-Kateu	A Quadratic Edge-Finding Filtering Algorithm for Cumulative Resource Constraints	Yes	[341]	2011	CP 2011	15	7	9	488	838

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	[360]	2011	Constraints An Int. J.	24	4	26	1385	1715
KovacsK11 KovacsK11	A. Kovács, T. Kis	Constraint programming approach to a bilevel scheduling problem	Yes	[362]	2011	Constraints An Int. J.	24	3	24	1386	1716
KovacsB08 KovacsB08	A. Kovács, J. Christopher Beck	A global constraint for total weighted completion time for cumulative resources	Yes	[359]	2008	Eng. Appl. Artif. Intell.	7	5	14	1384	1742
KovacsB07 KovacsB07	A. Kovács, J. Christopher Beck	A Global Constraint for Total Weighted Completion Time	Yes	[358]	2007	CPAIOR 2007	15	2	12	497	884
KovacsV06 KovacsV06	A. Kovács, J. Váncza	Progressive Solutions: A Simple but Efficient Dominance Rule for Practical RCPSP	Yes	[364]	2006	CPAIOR 2006	13	2	7	501	894
KovacsEKV05 KovacsEKV05	A. Kovács, P. Egri, T. Kis, J. Váncza	Proterv-II: An Integrated Production Planning and Scheduling System	Yes	[361]	2005	CP 2005	1	2	3	498	910
KovacsV04 KovacsV04	A. Kovács, J. Váncza	Completable Partial Solutions in Constraint Programming and Constraint-Based Scheduling	Yes	[363]	2004	CP 2004	15	3	12	500	922

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	387	651
NattafM20 NattafM20	M. Nattaf, A. Malapert	Filtering Rules for Flow Time Minimization in a Parallel Machine Scheduling Problem	Yes	[472]	2020	CP 2020	16	0	6	549	702
MalapertN19 MalapertN19	A. Malapert, M. Nattaf	A New CP-Approach for a Parallel Machine Scheduling Problem with Time Constraints on Machine Qualifications	Yes	[427]	2019	CPAIOR 2019	17	1	7	534	717
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	[426]	2013	ICAPS 2013	2	0	0	533	812
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	[425]	2012	INFORMS Journal on Computing	17	23	21	1408	1699
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	[424]	2011	École des mines de Nantes, France	194	0	0	2873	n/a
GrimesHM09 GrimesHM09	D. Grimes, E. Hebrard, A. Malapert	Closing the Open Shop: Contradicting Conventional Wisdom	Yes	[262]	2009	CP 2009	9	15	12	455	857

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 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	342	667
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	341	684
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	1271	1595
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	337	722
HurleyOS16 HurleyOS16	B. Hurley, B. O'Sullivan, H. Simonis	ICON Loop Energy Show Case	Yes	[323]	2016	Data Mining and Constraint Programming - Foundations of a Cross-Disciplinary Approach	14	0	16	2900	n/a
GrimesIOS14 GrimesIOS14	D. Grimes, G. Ifrim, B. O'Sullivan, H. Simonis	Analyzing the impact of electricity price forecasting on energy cost-aware scheduling	Yes	[263]	2014	Sustain. Comput. Informatics Syst.	16	6	7	1346	1681
IfrimOS12 IfrimOS12	G. Ifrim, B. O'Sullivan, H. Simonis	Properties of Energy-Price Forecasts for Scheduling	Yes	[324]	2012	CP 2012	16	6	20	480	822

D.37 7 Works by Cemalettin Ozturk

Table 61: Works from bibtex (Total 7)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
GokPTGO23 GokPTGO23	Yagmur S. Gök, S. Padrón, M. Tomasella, D. Guimarans, C. Ozturk	Constraint-based robust planning and scheduling of airport apron operations through simheuristics	Yes	[275]	2023	Annals of Operations Research	36	0	0	1340	1538
OrnekOS20 OrnekOS20	M. Arslan Ornek, C. Ozturk, I. Sugut	Integer and constraint programming model formulations for flight-gate assignment problem	Yes	[490]	2022	Operational Research	29	0	0	1442	1573
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	1271	1595
GokGSTO20 GokGSTO20	Yagmur S. Gök, D. Guimarans, Peter J. Stuckey, M. Tomasella, C. Ozturk	Robust Resource Planning for Aircraft Ground Operations	Yes	[251]	2020	CPAIOR 2020	17	2	14	449	698
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	337	722
OrnekO16 OrnekO16	A. Ornek, C. Ozturk	Optimisation and Constraint Based Heuristic Methods for Advanced Planning and Scheduling Systems	Yes	[489]	2016	International Journal of Industrial Engineering: Theory, Applications and Practice	25	0	0	1441	1664
OzturkTHO10 OzturkTHO10	C. Ozturk, S. Tunali, B. Hnich, Arslan M. Ornek	Simultaneous Balancing and Scheduling of Flexible Mixed Model Assembly Lines with Sequence-Dependent Setup Times	Yes	[495]	2010	Electronic Notes in Discrete Mathematics	8	15	1	1443	1728

D.38   7 Works by Gabriela P. Henning

Table 62: 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	[478]	2016	Computers Chemical Engineering	17	18	31	1433	1663
NovasH14 NovasH14	Juan M. Novas, Gabriela P. Henning	Integrated scheduling of resource-constrained flexible manufacturing systems using constraint programming	Yes	[482]	2014	Expert Syst. Appl.	14	35	26	1437	1684
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	[481]	2012	Computers Chemical Engineering	17	17	15	1436	1701
NovasH10 NovasH10	Juan M. Novas, Gabriela P. Henning	Reactive scheduling framework based on domain knowledge and constraint programming	Yes	[480]	2010	Computers Chemical Engineering	20	48	19	1435	1727
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	[666]	2010	Eng. Appl. Artif. Intell.	20	33	28	1506	1729
QuirogaZH05 QuirogaZH05	O. Quiroga, L. Zeballos, Gabriela P. Henning	A Constraint Programming Approach to Tool Allocation and Resource Scheduling in FMS	Yes	[522]	2005	ICRA 2005	6	2	7	569	912
ZeballosH05 ZeballosH05	L. Zeballos, Gabriela P. Henning	A Constraint Programming Approach to FMS Scheduling. Consideration of Storage and Transportation Resources	Yes	[665]	2005	Inteligencia Artif.	10	0	0	1505	1761

D.39   6 Works by Yves Deville

Table 63: 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	413	794
HoundjiSWD14 HoundjiSWD14	Vinasétan Ratheil Houndji, P. Schaus, Laurence A. Wolsey, Y. Deville	The StockingCost Constraint	Yes	[321]	2014	CP 2014	16	5	7	479	800
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	[541]	2011	Constraints An Int. J.	23	14	5	1466	1717
MonetteDH09 MonetteDH09	J. Monette, Y. Deville, Pascal Van Hentenryck	Just-In-Time Scheduling with Constraint Programming	Yes	[450]	2009	ICAPS 2009	8	0	0	541	860
SchausD08 SchausD08	P. Schaus, Y. Deville	A Global Constraint for Bin-Packing with Precedences: Application to the Assembly Line Balancing Problem	Yes	[540]	2008	AAAI 2008	6	0	0	577	876
MonetteDD07 MonetteDD07	J. Monette, Y. Deville, P. Dupont	A Position-Based Propagator for the Open-Shop Problem	Yes	[449]	2007	CPAIOR 2007	14	0	12	540	887

D.40 6 Works by Stefan Heinz

Table 64: 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	[295]	2013	CPAIOR 2013	16	9	15	467	808
HeinzSB13 HeinzSB13	S. Heinz, J. Schulz, J. Christopher Beck	Using dual presolving reductions to reformulate cumulative constraints	Yes	[298]	2013	Constraints An Int. J.	36	7	31	1362	1689
HeinzB12 HeinzB12	S. Heinz, J. Christopher Beck	Reconsidering Mixed Integer Programming and MIP-Based Hybrids for Scheduling	Yes	[294]	2012	CPAIOR 2012	17	8	21	466	821
HeinzSSW12 HeinzSSW12	S. Heinz, T. Schlechte, R. Stephan, M. Winkler	Solving steel mill slab design problems	Yes	[296]	2012	Constraints An Int. J.	12	10	9	1363	1695
HeinzS11 HeinzS11	S. Heinz, J. Schulz	Explanations for the Cumulative Constraint: An Experimental Study	Yes	[297]	2011	SEA 2011	10	5	12	468	836
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	373	846

D.41 6 Works by Wim Nuijten

Table 65: 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 Constraint Programming	39	30	25	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	447	907
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	426	951
SourdN00 SourdN00	F. Sourd, W. Nuijten	Multiple-Machine Lower Bounds for Shop-Scheduling Problems	Yes	[573]	2000	INFORMS Journal on Computing	12	7	14	1477	1785
NuijtenP98 NuijtenP98	W. Nuijten, Claude Le Pape	Constraint-Based Job Shop Scheduling with \sc Ilog Scheduler	Yes	[484]	1998	J. Heuristics	16	42	0	1439	1791

D.42 6 Works by Erwin Pesch

Table 66: 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	[456]	2022	European Journal of Operational Research	18	17	59	1423	1569
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, Toàn 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, Toàn 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, Toàn Phan Huy	Recent Developments in Scheduling	No	[189]	1999	Operations Research Proceedings 1999	null	0	34	No	952
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	1299	1797

D.43 6 Works by Emmanuel Poder

Table 67: Works from bibtex (Total 6)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
BeldiceanuCDP11 BeldiceanuCDP11	N. Beldiceanu, M. Carlsson, S. Demassey, E. Poder	New filtering for the *cumulative* constraint in the context of non-overlapping rectangles	Yes	[80]	2011	Annals of Operations Research	24	8	8	1293	1708
abs-0907-0939 abs-0907-0939	T. Petit, E. Poder	The Soft Cumulative Constraint	Yes	[507]	2009	CoRR	12	0	0	1512	1740
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	367	868
PoderB08 PoderB08	E. Poder, N. Beldiceanu	Filtering for a Continuous Multi-Resources cumulative Constraint with Resource Consumption and Production	Yes	[508]	2008	ICAPS 2008	8	0	0	562	875
BeldiceanuP07 BeldiceanuP07	N. Beldiceanu, E. Poder	A Continuous Multi-resources *cumulative* Constraint with Positive-Negative Resource Consumption-Production	Yes	[82]	2007	CPAIOR 2007	15	4	7	368	879
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	[509]	2004	European Journal of Operational Research	16	7	8	1451	1762

D.44   6 Works by Vahid Roshanaei

Table 68: 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	[465]	2023	INFORMS Journal on Computing	27	2	50	1426	1547
NaderiR22 NaderiR22	B. Naderi, V. Roshanaei	Critical-Path-Search Logic-Based Benders Decomposition Approaches for Flexible Job Shop Scheduling	No	[463]	2022	INFORMS Journal on Optimization	null	5	49	No	1572
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	[464]	2021	Production and Operations Management	null	22	61	No	1588
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	[531]	2020	International Journal of Production Economics	19	24	43	1460	1609
RoshanaeiLAU17 RoshanaeiLAU17	V. Roshanaei, C. Luong, Dionne M. Aleman, D. Urbach	Propagating logic-based Benders' decomposition approaches for distributed operating room scheduling	Yes	[532]	2017	European Journal of Operational Research	17	61	46	1461	1651
RoshanaeiLAU17a RoshanaeiLAU17a	V. Roshanaei, C. Luong, Dionne M. Aleman, David R. Urbach	Collaborative Operating Room Planning and Scheduling	No	[533]	2017	INFORMS Journal on Computing	null	54	42	No	1652

D.45 5 Works by Cyrille Dejemeppe

Table 69: 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	1311	1599
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	398	757
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	2858	n/a
DejemeppeCS15 DejemeppeCS15	C. Dejemeppe, Sascha Van Cauwelaert, P. Schaus	The Unary Resource with Transition Times	Yes	[174]	2015	CP 2015	16	5	11	412	774
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	413	794

D.46 5 Works by Sophie Demassey

Table 70: Works from bibtex (Total 5)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
BeldiceanuCDP11 BeldiceanuCDP11	N. Beldiceanu, M. Carlsson, S. Demassey, E. Poder	New filtering for the *cumulative* constraint in the context of non-overlapping rectangles	Yes	[80]	2011	Annals of Operations Research	24	8	8	1293	1708
HermenierDL11 HermenierDL11	F. Hermenier, S. Demassey, X. Lorca	Bin Repacking Scheduling in Virtualized Datacenters	Yes	[304]	2011	CP 2011	15	28	5	471	837
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	[486]	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	1320	1758
Demassey03 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	2859	n/a

D.47 5 Works by Ignacio E. Grossmann

Table 71: 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	[283]	2014	Computers Chemical Engineering	33	381	176	1357	1682
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	[430]	2004	CPAIOR 2004	20	15	15	535	924
HarjunkoskiG02 HarjunkoskiG02	I. Harjunkoski, Ignacio E. Grossmann	Decomposition techniques for multistage scheduling problems using mixed-integer and constraint programming methods	Yes	[282]	2002	Computers Chemical Engineering	20	169	11	1356	1768
JainG01 JainG01	V. Jain, Ignacio E. Grossmann	Algorithms for Hybrid MILP/CP Models for a Class of Optimization Problems	Yes	[327]	2001	INFORMS Journal on Computing	19	279	23	1373	1773

Table 72: 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	1326	1562
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	[269]	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	[595]	2014	J. Heuristics	34	19	18	1483	1686
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	[268]	2013	CPAIOR 2013	7	10	24	459	807
GuSW12 GuSW12	H. Gu, Peter J. Stuckey, Mark G. Wallace	Maximising the Net Present Value of Large Resource-Constrained Projects	Yes	[270]	2012	CP 2012	15	5	20	460	820

D.49 5 Works by Brahim Hnich

Table 73: Works from bibtex (Total 5)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
GokgurHO18 GokgurHO18	B. Gökgür, B. Hnich, S. Özpeynirci	Parallel machine scheduling with tool loading: a constraint programming approach	Yes	[252]	2018	International Journal of Production Research	17	31	43	1341	1635
OzturkTHO15 OzturkTHO15	C. Öztürk, S. Tunalı, B. Hnich, A. Örnek	Cyclic scheduling of flexible mixed model assembly lines with parallel stations	Yes	[681]	2015	Journal of Manufacturing Systems	12	27	17	1446	1674
OzturkTHO13 OzturkTHO13	C. Öztürk, S. Tunali, B. Hnich, M. Arslan Ornek	Balancing and scheduling of flexible mixed model assembly lines	Yes	[496]	2013	Constraints An Int. J.	36	31	44	1445	1692
OzturkTHO10 OzturkTHO10	C. Ozturk, S. Tunali, B. Hnich, Arslan M. Ornek	Simultaneous Balancing and Scheduling of Flexible Mixed Model Assembly Lines with Sequence-Dependent Setup Times	Yes	[495]	2010	Electronic Notes in Discrete Mathematics	8	15	1	1443	1728
RossiTHP07 RossiTHP07	R. Rossi, A. Tarim, B. Hnich, Steven D. Prestwich	Replenishment Planning for Stochastic Inventory Systems with Shortage Cost	Yes	[534]	2007	CPAIOR 2007	15	6	10	575	889

D.50 5 Works by Narendra Jussien

Table 74: Works from bibtex (Total 5)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
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	[426]	2013	ICAPS 2013	2	0	0	533	812
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	[425]	2012	INFORMS Journal on Computing	17	23	21	1408	1699
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	404	833
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	422	940
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	423	941

D.51 5 Works by Juan M. Novas

Table 75: 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	[479]	2019	Computers Industrial Engineering	13	30	29	1434	1622
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	[478]	2016	Computers Chemical Engineering	17	18	31	1433	1663
NovasH14 NovasH14	Juan M. Novas, Gabriela P. Henning	Integrated scheduling of resource-constrained flexible manufacturing systems using constraint programming	Yes	[482]	2014	Expert Syst. Appl.	14	35	26	1437	1684
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	[481]	2012	Computers Chemical Engineering	17	17	15	1436	1701
NovasH10 NovasH10	Juan M. Novas, Gabriela P. Henning	Reactive scheduling framework based on domain knowledge and constraint programming	Yes	[480]	2010	Computers Chemical Engineering	20	48	19	1435	1727

D.52 5 Works by Kenneth N. Brown

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	1271	1595
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	337	722
MurphyMB15 MurphyMB15	Seán Óg Murphy, O. Manzano, Kenneth N. Brown	Design and Evaluation of a Constraint-Based Energy Saving and Scheduling Recommender System	Yes	[458]	2015	CP 2015	17	1	20	546	783
WuBB09 WuBB09	Christine Wei Wu, Kenneth N. Brown, J. Christopher Beck	Scheduling with uncertain durations: Modeling beta-robust scheduling with constraints	Yes	[653]	2009	Computers Operations Research	9	42	5	1498	1739
WuBB05 WuBB05	Christine Wei Wu, Kenneth N. Brown, J. Christopher Beck	Scheduling with Uncertain Start Dates	Yes	[652]	2005	CP 2005	1	0	0	639	917

D.53 5 Works by Bahman Naderi

Table 77: 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	[465]	2023	INFORMS Journal on Computing	27	2	50	1426	1547
NaderiBZ22 NaderiBZ22	B. Naderi, Mehmet A. Begen, G. Zhang	Integrated Order Acceptance and Resource Decisions Under Uncertainty: Robust and Stochastic Approaches	Yes	[462]	2022	SSRN Electronic Journal	29	0	44	1424	1570
NaderiBZ22a NaderiBZ22a	B. Naderi, Mehmet A. Begen, Gregory S. Zaric	Type-2 integrated process-planning and scheduling problem: Reformulation and solution algorithms	Yes	[461]	2022	Computers Operations Research	19	3	44	1425	1571
NaderiR22 NaderiR22	B. Naderi, V. Roshanaei	Critical-Path-Search Logic-Based Benders Decomposition Approaches for Flexible Job Shop Scheduling	No	[463]	2022	INFORMS Journal on Optimization	null	5	49	No	1572
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	[464]	2021	Production and Operations Management	null	22	61	No	1588

D.54 5 Works by Joaquin Rodriguez

Table 78: Works from bibtex (Total 5)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
MarliereSPR23 MarliereSPR23	G. Marlière, Sonia Sobieraj Richard, P. Pellegrini, J. Rodriguez	A conditional time-intervals formulation of the real-time Railway Traffic Management Problem	Yes	[431]	2023	Control Engineering Practice	22	1	75	1410	1544
RodriguezS09 RodriguezS09	J. Rodriguez, S. Sobieraj	A study of an incremental texture-based heuristic for the train routing and scheduling problem	Yes	[530]	2009	null 2009	14	0	0	574	861
Rodriguez07 Rodriguez07	J. Rodriguez	A constraint programming model for real-time train scheduling at junctions	Yes	[527]	2007	Transportation Research Part B: Methodological	15	117	6	1458	1751
Rodriguez07b Rodriguez07b	J. Rodriguez	A study of the use of state resources in a constraint-based model for routing and scheduling trains	Yes	[528]	2007	null 2007	14	0	0	573	888
RodriguezDG02 RodriguezDG02	J. Rodriguez, X. Delorme, X. Gandibleux	Railway infrastructure saturation using constraint programming approach	Yes	[529]	2002	Computers in Railways VIII	10	0	0	1459	1771

D.55 5 Works by Mohamed Siala

Table 79: 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	1271	1595
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	337	722
Siala15 Siala15	M. Siala	Search, propagation, and learning in sequencing and scheduling problems	Yes	[561]	2015	Constraints An Int. J.	2	4	0	1473	1676
Siala15a Siala15a	M. Siala	Search, propagation, and learning in sequencing and scheduling problems. (Recherche, propagation et apprentissage dans les problèmes de séquencement et d'ordonnancement)	Yes	[562]	2015	INSA Toulouse, France	199	0	0	2878	n/a
SialaAH15 SialaAH15	M. Siala, C. Artigues, E. Hebrard	Two Clause Learning Approaches for Disjunctive Scheduling	Yes	[563]	2015	CP 2015	10	4	17	586	786

D.56 5 Works by Marek Vlk

Table 80: 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	[300]	2023	CoRR	42	0	0	1520	1553
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	[299]	2022	Computers Industrial Engineering	16	5	25	1361	1565
VlkHT21 VlkHT21	M. Vlk, Z. Hanzálek, S. Tang	Constraint programming approaches to joint routing and scheduling in time-sensitive networks	Yes	[633]	2021	Computers Industrial Engineering	14	7	22	1493	1591
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	370	725
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	357	771

D.57 5 Works by Nic Wilson

Table 81: 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	1271	1595
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	337	722
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	1289	1748
BeckW05 BeckW05	J. Christopher Beck, N. Wilson	Proactive Algorithms for Scheduling with Probabilistic Durations	Yes	[72]	2005	IJCAI 2005	6	0	0	364	900
BeckW04 BeckW04	J. Christopher Beck, N. Wilson	Job Shop Scheduling with Probabilistic Durations	Yes	[71]	2004	ECAI 2004	5	0	0	363	919

E   Other Works

E.1 Books from bibtex

Table 82: 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	[308]	2000	Book	null	185	0	No	n/a

E.2 PhDThesis from bibtex

Table 83: 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	2853	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	2865	n/a
Groleaz21 Groleaz21	L. Groleaz	The Group Cumulative Scheduling Problem	Yes	[264]	2021	Université de Lyon	153	0	0	2866	n/a
Lemos21 Lemos21	Alexandre Duarte de Almeida Lemos	Solving scheduling problems under disruptions	Yes	[385]	2021	UNIVERSIDADE DE LISBOA INSTITUTO SUPERIOR TÉCNICO	188	0	0	2869	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	[662]	2021	Université de Tours - LIFAT	185	0	0	2879	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	[418]	2020	University of Luxembourg, Luxembourg City, Luxembourg	181	0	0	2872	n/a
Caballero19 Caballero19	Jordi Coll Caballero	Scheduling Through Logic-Based Tools	Yes	[127]	2019	Universitat de Girona, Spain	194	0	0	2856	n/a
German18 German18	G. German	Constraint programming for lot-sizing problems	Yes	[242]	2018	Université Grenoble Alpes	112	0	0	2864	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	2858	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	2862	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	2863	n/a
Nattaf16 Nattaf16	M. Nattaf	Ordonnancement sous contraintes d'énergie	Yes	[466]	2016	UPS Toulouse - Université Toulouse 3 Paul Sabatier	199	0	0	2876	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	2860	n/a
Siala15a Siala15a	M. Siala	Search, propagation, and learning in sequencing and scheduling problems. (Recherche, propagation et apprentissage dans les problèmes de séquencement et d'ordonnancement)	Yes	[562]	2015	INSA Toulouse, France	199	0	0	2878	n/a
Kameugne14 Kameugne14	R. Kameugne	Techniques de Propagation de la Contrainte de Ressource en Ordonnancement Cumulatif	Yes	[337]	2014	University of Yaounde I, Cameroon	139	0	0	2867	n/a
Letort13 Letort13	A. Letort	Passage à l'échelle pour les contraintes d'ordonnancement multi-ressources	Yes	[386]	2013	Ecole des Mines de Nantes	132	0	0	2870	n/a

Table 83: Works from bibtex (Total 27)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School	Pages	Nr Cites	Nr Refs	b	c
Clercq12 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	2857	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	[424]	2011	École des mines de Nantes, France	194	0	0	2873	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	[437]	2011	University of Nantes, France	148	0	0	2875	n/a
Schutt11 Schutt11	A. Schutt	Improving Scheduling by Learning	Yes	[544]	2011	University of Melbourne, Australia	209	0	0	2877	n/a
Lombardi10 Lombardi10	M. Lombardi	Hybrid Methods for Resource Allocation and Scheduling Problems in Deterministic and Stochastic Environments	Yes	[402]	2010	University of Bologna, Italy	175	0	0	2871	n/a
Malik08 Malik08	Abid M. Malik	Constraint Programming Techniques for Optimal Instruction Scheduling	Yes	[428]	2008	University of Waterloo, Ontario, Canada	151	0	0	2874	n/a
Demassey03 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	2859	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	2861	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	2854	n/a
Layfield02 Layfield02	Colin J. Layfield	A constraint programming pre-processor for duty scheduling	Yes	[384]	2002	University of Leeds, UK	230	0	0	2868	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	2855	n/a

Table 84: 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, one-machine scheduling, due-date, job-shop, flow-shop, resource, transportation, open-shop, machine, job, re-scheduling, stochastic, precedence, order, inventory, two-stage scheduling, tardiness, activity, setup-time, preempt, release-date, periodic, scheduling, make-span, completion-time, task, sequence dependent setup, breakdown, multi-objective, net present value, planned maintenance, unavailability	RCPSP, parallel machine, HFS, single machine, Partial Order Schedule, Resource-constrained Project Scheduling Problem	cumulative, alldifferent, cycle, circuit, disjunctive, Disjunctive constraint, Reified constraint	C++, Julia	Cplex, OPL, Gecode	satellite, drone, agriculture, 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, genetic algorithm, large neighborhood search, meta heuristic, neural network, reinforcement learning, simulated annealing	2826	n/a
Baptiste02 [44]	237	re-scheduling, resource, release-date, scheduling, preempt, flow-time, task, job-shop, preemptive, machine, activity, make-span, flow-shop, job, completion-time, precedence, distributed, inventory, no preempt, setup-time, due-date, single-machine scheduling, open-shop, tardiness, order, lateness, earliness, one-machine scheduling, cmax, sequence dependent setup, Pareto, reactive scheduling	Open Shop Scheduling Problem, PJSSP, HFS, single machine, RCPSP, OSSP, parallel machine, JSSP, Resource-constrained Project Scheduling Problem	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, Lagrangian relaxation, column generation, genetic algorithm, simulated annealing	2850	n/a
Beck99 [62]	418	stochastic, due-date, multi-agent, order, distributed, preempt, scheduling, inventory, preemptive, 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, evacuation, telescope		benchmark, real-world	not-last, edge-finding, not-first, column generation, genetic algorithm, machine learning, meta heuristic, simulated annealing	2852	n/a

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

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
Caballero19 [127]	194	resource, machine, setup-time, preempt, periodic, task, order, activity, distributed, precedence, release-date, cmax, make-span, preemptive, scheduling, completion-time	psplib, RCPSP, Resource-constrained Project Scheduling Problem	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, conflict-driven clause learning, lazy clause generation, meta heuristic	2832	n/a
Clercq12 [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	2842	n/a
Dejemeppe16 [173]	274	make-span, sequence dependent setup, open-shop, order, job, activity, continuous-process, machine, preempt, release-date, flow-shop, batch process, tardiness, preemptive, scheduling, completion-time, re-scheduling, resource, setup-time, earliness, due-date, no-wait, task, stochastic, job-shop, lateness, precedence, Pareto, bi-objective, energy efficiency, multi-objective	PTC, psplib, single machine, RCPSP, Resource-constrained Project Scheduling Problem	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, Lagrangian relaxation, ant colony, genetic algorithm, large neighborhood search, meta heuristic, particle swarm, simulated annealing	2834	n/a

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

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
Demassey03 [176]	148	machine, job, precedence, Benders Decomposition, release-date, stochastic, Logic-Based Benders Decomposition, job-shop, preemptive, single-machine scheduling, open-shop, activity, flow-shop, order, resource, scheduling, preempt, task	single machine, CuSP, psplib, RCPSP, TCSP, Resource-constrained Project Scheduling Problem	circuit, cumulative, disjunctive, cycle	C++	Cplex, Claire, Ilog Solver			benchmark	not-last, edge-finding, time-tabling, not-first, Lagrangian relaxation, column generation, meta heuristic	2848	n/a
Derrien15 [179]	113	scheduling, precedence, order, make-span, task, activity, preemptive, job-shop, resource, machine, job, stochastic, preempt, open-shop	psplib, CuSP	Disjunctive constraint, cumulative, alldifferent, circuit, disjunctive		Claire, Choco Solver	robot		benchmark	edge-finding, sweep, time-tabling, energetic reasoning	2838	n/a
Elkhyari03 [197]	333	scheduling, task, job-shop, preemptive, machine, activity, make-span, flow-shop, cmax, open-shop, tardiness, order, preempt, re-scheduling, resource, job, precedence, release-date, periodic, breakdown, reactive scheduling	RCPSP, CuSP, parallel machine, Temporal Constraint Satisfaction Problem, single machine, Resource-constrained Project Scheduling Problem	cycle, cumulative, disjunctive		CPO, Choco Solver, Claire			benchmark, Roadef	time-tabling, genetic algorithm, mat heuristic, meta heuristic	2849	n/a
Fahimi16 [206]	120	completion-time, flow-shop, precedence, batch process, setup-time, due-date, task, open-shop, preemptive, order, make-span, stochastic, machine, job, periodic, activity, resource, lateness, job-shop, Logic-Based Benders Decomposition, transportation, sequence dependent setup, preempt, tardiness, scheduling, Benders Decomposition, reactive scheduling	single machine, CuSP, parallel machine, RCPSP	Disjunctive constraint, Cardinality constraint, Cumulatives constraint, alldifferent, cycle, AllDiff 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	2835	n/a

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, preemptive, order, stochastic, completion-time, machine, job, manpower, release-date, Logic-Based Benders Decomposition, transportation, Pareto, breakdown, multi-objective, reactive scheduling, sustainability, unavailability	single machine, CuSP, TMS	disjunctive, cycle, cumulative	Java	Gurobi, OZ, Choco Solver	train schedule, maintenance scheduling, satellite, energy-price, offshore	power industry, electricity industry, energy industry, wind industry	benchmark, real-life, real-world, industrial partner, instance generator, Roadef, generated instance	max-flow, Lagrangian relaxation, ant colony, column generation, genetic algorithm, large neighborhood search, mat heuristic, meta heuristic, neural network, particle swarm, simulated annealing	2836	n/a
German18 [242]	112	stock level, setup-time, job, task, activity, stochastic, earliness, machine, resource, job-shop, cmax, order, inventory, scheduling		Disjunctive constraint, Cardinality constraint, bin-packing, Balance constraint, cumulative, Among constraint, disjunctive	Prolog	Z3, SICStus, OPL, Choco Solver, Cplex	nurse		real-world, benchmark, real-life, CSPlib, generated instance		2833	n/a
Godet21a [248]	168	open-shop, release-date, make-span, transportation, machine, distributed, periodic, resource, lateness, job-shop, flow-shop, precedence, cmax, preempt, due-date, preemptive, order, scheduling, Benders Decomposition, completion-time, job, task, activity	single machine, RCPSP, parallel machine, JSSP, PMSP, psplib, Resource-constrained Project Scheduling Problem	AllDiff constraint, bin-packing, GeneralizedAllDiffPrec, disjunctive, BinPacking constraint, cumulative, AllDiffPrec constraint, Disjunctive constraint, Element constraint, alldifferent, Cardinality constraint, cycle		OR-Tools, OPL, Claire, Choco Solver, Chuffed, MiniZinc, CHIP	satellite, robot, railway, maintenance scheduling	electricity industry	real-life, github, generated instance, benchmark, random instance	sweep, time-tabling, edge-finding, lazy clause generation, meta heuristic	2827	n/a

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

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
Groleaz21 [264]	153	inventory, tardiness, activity, setup-time, preempt, release-date, earliness, periodic, single-machine scheduling, scheduling, make-span, completion-time, task, online scheduling, preemptive, sequence dependent setup, distributed, due-date, job-shop, flow-shop, resource, transportation, cmax, open-shop, machine, job, lateness, re-scheduling, stochastic, precedence, order, bi-objective, breakdown, reactive scheduling	Open Shop Scheduling Problem, single machine, GCSP, RCPSP, OSP, parallel machine, Resource-constrained Project Scheduling Problem	circuit, disjunctive, Disjunctive constraint, span constraint, cumulative, cycle, noOverlap	Julia, Java	Choco Solver, Z3, OPL, OR-Tools, Gurobi, CPO, Gecode, SCIP, Cplex	dairy, robot, automotive, business process	food industry, agrifood industry, dairy industry	benchmark, real-life	edge-finding, not-first, not-last, ant colony, column generation, evolutionary computing, genetic algorithm, large neighborhood search, machine learning, mat heuristic, memetic algorithm, meta heuristic, neural network, simulated annealing, swarm intelligence	2828	n/a
Kameugne14 [337]	139	resource, job, scheduling, task, job-shop, preemptive, machine, make-span, flow-shop, completion-time, order, preempt	RCPSP, CuSP, parallel machine, psplib, Resource-constrained Project Scheduling Problem	circuit, Disjunctive constraint, Cumulatives constraint, Balance constraint, cumulative, disjunctive	Java, Prolog, C++	Choco Solver, Claire, Gecode, CHIP, ECLiPSe, SICStus, Cplex, Mistral			Roadef	not-last, edge-finder, energetic reasoning, time-tabling, edge-finding, not-first	2840	n/a
Layfield02 [384]	230				C	OPL, OZ, Z3					2851	n/a

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

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
Lemos21 [385]	188	transportation, precedence, job-shop, machine, re-scheduling, distributed, multi-agent, task, job, stochastic, order, periodic, resource, scheduling, Pareto, bi-objective, energy efficiency, multi-objective, unavailability	RCPSP	cycle, alldifferent, cumulative, Cardinality constraint	Java, C++, Python	OPL, Gurobi, Cplex	surgery, COVID, train schedule, medical, crew-scheduling, railway, high school timetabling, meeting scheduling	railway industry	real-world, github, real-life, benchmark, Roadef	GRASP, time-tabling, conflict-driven clause learning, evolutionary computing, genetic algorithm, large neighborhood search, machine learning, meta heuristic, reinforcement learning, simulated annealing	2829	n/a
Letort13 [386]	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, large neighborhood search, meta heuristic	2841	n/a

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

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
Lombardi10 [402]	175	re-scheduling, make-span, job, precedence, Benders Decomposition, release-date, periodic, stochastic, distributed, Logic-Based Benders Decomposition, setup-time, job-shop, preemptive, due-date, activity, completion-time, order, inventory, tardiness, resource, scheduling, preempt, task, machine, energy efficiency, multi-objective, net present value	single machine, SCC, CTW, RCPSP, TCSP, Resource-constrained Project Scheduling Problem	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, business process	semiconductor industry	generated instance, benchmark, real-world, instance generator, real-life	not-last, sweep, edge-finder, edge-finding, energetic reasoning, time-tabling, not-first, Lagrangian relaxation, column generation, genetic algorithm, large neighborhood search, lazy clause generation, machine learning, meta heuristic, simulated annealing	2846	n/a
Lunardi20 [418]	181	activity, setup-time, release-date, scheduling, make-span, task, cmax, machine, job, lateness, re-scheduling, stochastic, no preempt, due-date, job-shop, batch process, preempt, flow-shop, resource, transportation, open-shop, precedence, order, completion-time, tardiness, Pareto, bi-objective, breakdown, multi-objective, reactive scheduling, unavailability	FJS, parallel machine, single machine	cycle, noOverlap, endBeforeStart, alldifferent, disjunctive	Python	CPO, OPL, Cplex	robot, high performance computing	printing industry, glass industry	industrial partner, instance generator, benchmark, random instance, github, supplementary material, real-world, generated instance, real-life	ant colony, genetic algorithm, machine learning, mat heuristic, memetic algorithm, meta heuristic, neural network, particle swarm, reinforcement learning, simulated annealing, swarm intelligence	2831	n/a

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

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
Malapert11 [424]	194	tardiness, order, lateness, preempt, cmax, batch process, transportation, resource, scheduling, flow-time, task, job-shop, preemptive, machine, activity, make-span, no-wait, flow-shop, job, completion-time, precedence, inventory, setup-time, due-date, open-shop, multi-objective, planned maintenance	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, semi-conductor, main-tenance scheduling, patient		real-world, industrial part-ner, generated instance, bench-mark	edge-finding, not-first, energetic reasoning, not-last, time-tabling, sweep, ant colony, column generation, genetic al-gorithm, meta heuris-tic, particle swarm	2843	n/a
Malik08 [428]	151	order, machine, completion-time, activity, distributed, precedence, task, job, resource, make-span, scheduling, breakdown, cyclic scheduling		alldifferent, Cardinality constraint, cycle			pipeline		real-life, bench-mark	edge-finding, machine learning	2847	n/a
Menana11 [437]	148	machine, task, manpower, activity, distributed, resource, precedence, scheduling, cyclic scheduling, multi-objective		Regular con-straint, alldiffer-ent, Cardinality constraint	Prolog	Z3, CHIP, OPL, Claire, Choco Solver	nurse		Roadef, github, benchmark	time-tabling, Lagrangian relaxation, column generation, genetic algorithm, large neigh-borhood search, meta heuristic	2844	n/a
Nattaf16 [466]	199	preemptive, order, tardiness, inventory, scheduling, flow-shop, setup-time, job, task, make-span, machine, resource, job-shop, cmax, preempt, due-date, bi-objective	RCPSP, CECSP, psplib, single machine, CuSP, parallel machine, Resource-constrained Project Scheduling Problem	alldifferent, cumulative, disjunctive	C++	Claire, Cplex	maintenance scheduling, robot	process in-dustry	Roadef	energetic reason-ing, edge-finding, sweep, column generation, genetic algorithm, mat heuris-tic	2837	n/a

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

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
Schutt11 [544]	209	resource, job-shop, precedence, cmax, preempt, preemptive, order, tardiness, scheduling, completion-time, machine, setup-time, job, periodic, task, activity, open-shop, one-machine scheduling, release-date, make-span	RCPSP, Open Shop Scheduling Problem, psplib, Resource-constrained Project Scheduling Problem	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, ant colony, lazy clause generation, meta heuristic, simulated annealing	2845	n/a
Siala15a [562]	199	job-shop, precedence, earliness, cmax, sequence dependent setup, due-date, order, tardiness, scheduling, setup-time, task, activity, open-shop, make-span, machine, job, periodic, 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, MultiAtMostSeqCard, AtMostSeqCard, 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, ant colony, conflict-driven clause learning, evolutionary computing, large neighborhood search, lazy clause generation, swarm intelligence	2839	n/a
Zahout21 [662]	185	completion-time, machine, job, activity, online scheduling, release-date, make-span, multi-agent, distributed, resource, job-shop, flow-shop, precedence, preempt, due-date, re-scheduling, task, preemptive, scheduling, Pareto, bi-objective, energy efficiency, multi-objective	CuSP, parallel machine, RCPSP, SCC, TCSP, single machine	cycle, cumulative, circuit, bin-packing		CPO, Cplex, Claire	datacenter, crew-scheduling, satellite, business process, high performance computing		benchmark	GRASP, column generation, genetic algorithm, meta heuristic, reinforcement learning	2830	n/a

E.3 InBook from bibtex

Table 85: 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	[552]	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	[269]	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	[443]	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	[314]	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	[486]	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, Toän 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, Toàn 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 86: 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	[316]	2019	Large Scale Optimization in Supply Chains and Smart Manufacturing	26	8	0	2899	n/a
HurleyOS16 HurleyOS16	B. Hurley, B. O'Sullivan, H. Simonis	ICON Loop Energy Show Case	Yes	[323]	2016	Data Mining and Constraint Programming - Foundations of a Cross-Disciplinary Approach	14	0	16	2900	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	[343]	2004	Handbook of Scheduling - Algorithms, Models, and Performance Analysis	22	0	0	2901	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 87: Automatically Extracted INCOLLECTION Properties (Requires Local Copy)

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
Hooker19 [316]	26	machine, job, task, activity, one-machine scheduling, release-date, make-span, transportation, stochastic, single-machine scheduling, distributed, resource, job-shop, Logic-Based Benders Decomposition, sequence dependent setup, due-date, order, tardiness, inventory, scheduling, Benders Decomposition, multi-objective	parallel machine, single machine	cycle, disjunctive, cumulative, circuit		OPL, MiniZinc	container terminal, maintenance scheduling, satellite, torpedo, yard crane, operating room, patient, railway, aircraft		industrial instance	time-tabling, column generation, large neighborhood search, mat heuristic, meta heuristic, quadratic programming	2893	n/a
HurleyOS16 [323]	14	re-scheduling, resource, scheduling, task, machine, distributed, order		cumulative			energy-price, super-computer, datacentre, high performance computing		real-world, benchmark	machine learning	2894	n/a
KanetAG04 [343]	22	precedence, order, make-span, completion-time, task, tardiness, activity, earliness, due-date, job-shop, resource, machine, job, inventory, setup-time, transportation, single-machine scheduling, scheduling	single machine, parallel machine	Disjunctive constraint, alldifferent, disjunctive		ECLiPSe, Cplex, Ilog Solver, OPL	patient, high school timetabling			time-tabling, meta heuristic	2897	n/a

F Background Works

Table 88: 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	[285]	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	[380]	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	[523]	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	[284]	2010	European Journal of Operational Research	14	577	177	No	n/a
YunesAH10 YunesAH10	T. Yunes, Ionuţ D. Aron, John N. Hooker	An Integrated Solver for Optimization Problems	Yes	[657]	2010	Operations Research	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	[473]	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	[353]	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	[558]	1998	CP 1998	15	630	11	No	n/a
KolischS97 KolischS97	R. Kolisch, A. Sprecher	PSPLIB - A project scheduling problem library	Yes	[354]	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	[581]	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 88: Works from bibtex (Total 23)

Key Source	Authors	Title	LC	Cite	Year	Conference /Journal /School		Pages	Nr Cites	Nr Refs	b	c
BlazewiczLK83 BlazewiczLK83	J. Blazewicz, Jan Karel Lenstra, A. H. G. Rinnooy Kan	Scheduling subject to resource constraints: classification and complexity	Yes	[98]	1983	Discret. Math.	Appl.	14	947	6	No	n/a
Lauriere78 Lauriere78	J. Lauriere	A language and a program for stating and solving combinatorial problems	No	[383]	1978	Artificial gence	Intelli-	null	149	14	No	n/a
Benders62 Benders62	Jacques F. Benders	Partitioning procedures for solving mixed-variables programming problems	Yes	[85]	1962	Numerische matik	Mathe-	15	2583	6	No	n/a