

# CP Papers on Scheduling

Helmut Simonis and Cemalettin Öztürk

March 19, 2024

## 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: 566)

1	2	3	4	5	6
AalianPG23 [1]	AbohashimaEG21 [2]	AbreuAPNM21 [143]	AbreuN22 [144]	AbreuNP23 [145]	AbreuPNF23 [3]
AbrilSB05 [4]	Acuna-AgostMFG09 [5]	AdamsBZ88 [6]	AggounB93 [7]	AkkerDH07 [509]	AkramNHRSA23 [9]
AlesioNBG14 [156]	AlfieriGPS23 [11]	AlizdehS20 [12]	AngelsmarkJ00 [13]	AntunesABDEGGOL18 [14]	AntunesABDEGGOL20 [15]
AntuoriHHEN20 [16]	AntuoriHHEN21 [17]	ApplegateC91 [18]	ArbaouiY18 [19]	ArmstrongGOS21 [20]	ArmstrongGOS22 [21]
AronssonBK09 [22]	ArtiguesBF04 [23]	ArtiguesHQT21 [24]	ArtiguesR00 [25]	ArtiouchineB05 [26]	Astrand0F21 [28]
Astrand21 [27]	AstrandJZ18 [29]	AstrandJZ20 [30]	BadicaBI20 [31]	BadicaBIL19 [32]	BajestaniB11 [33]
BajestaniB13 [34]	BajestaniB15 [35]	BandaSC11 [146]	Baptiste09 [36]	BaptisteB18 [37]	BaptisteLPN06 [38]
BaptisteLV92 [42]	BaptisteP00 [40]	BaptisteP97 [39]	BaptistePN01 [41]	BarlattCG08 [43]	Bartak02 [45]
Bartak02a [44]	Bartak14 [46]	BartakCS10 [47]	BartakS11 [48]	BartakSR10 [49]	BartakV15 [50]
BartoliniBBLM14 [51]	BarzegaranZP20 [52]	Beck06 [54]	Beck07 [55]	Beck99 [53]	BeckDF97 [56]
BeckF00 [59]	BeckF98 [58]	BeckFW11 [57]	BeckPS03 [60]	BeckR03 [61]	BeckW04 [62]
BeckW05 [63]	BeckW07 [64]	Bedhief21 [65]	BegB13 [66]	BehrensLM19 [67]	BeldiceanuC02 [70]
BeldiceanuC94 [69]	BeldiceanuCDP11 [71]	BeldiceanuCP08 [72]	BeldiceanuP07 [73]	BelhadjiI98 [74]	BenderWS21 [75]
Benders62 [76]	BenediktMH20 [77]	BenediktSMVH18 [78]	BeniniBGM06 [79]	BeniniLMR11 [80]	BensanaLV99 [81]
BertholdHLMS10 [82]	BessiereHMQW14 [83]	BidotVLB09 [84]	BillautHL12 [85]	Bit-Monnot23 [86]	BlazewiczEP19 [87]
BlazewiczLK83 [88]	BlomBPS14 [89]	BlomPS16 [90]	BocewiczBB09 [91]	BofillCSV17 [92]	BofillEGPSV14 [93]
BofillGSV15 [94]	BogaerdtW19 [510]	Bonfietti16 [95]	BonfiettiLBM11 [96]	BonfiettiLBM12 [97]	BonfiettiLBM14 [98]
BonfiettiLM13 [99]	BonfiettiLM14 [100]	BonfiettiM12 [101]	BonfiettiZLM16 [102]	BoothNB16 [103]	BorghesiBLMB18 [104]
BoucherBVBL97 [105]	BoudreaultSLQ22 [106]	BourreauGGLT22 [107]	BreitingerL95 [108]	BridiBLMB16 [109]	BridiLBBM16 [110]
BruckerDMNP99 [111]	BrusoniCLMMT96 [112]	BurtLPS15 [113]	Caballero23 [114]	CampeauG22 [115]	CappartS17 [116]
CappartTSR18 [117]	CarchraeBF05 [118]	CarlierP89 [119]	CarlierP90 [120]	CarlierP94 [121]	Caseau97 [122]
CauwelaertDMS16 [123]	CauwelaertDS20 [125]	CauwelaertLS18 [124]	CestaOS98 [126]	ChapadosJR11 [127]	ChuGNSW13 [128]
ChuX05 [129]	CireCH13 [130]	ClercqPBJ11 [131]	CobanH10 [132]	CohenHB17 [133]	ColT19 [135]
ColT22 [136]	Colombani96 [137]	CzerniachowskaWZ23 [138]	DannaP03 [139]	Darby-DowmanLMZ97 [140]	Davenport10 [141]
DavenportKRSH07 [142]	DechterMP91 [147]	Dejemeppe16 [148]	DejemeppeCS15 [149]	DejemeppeD14 [150]	Demassez03 [151]
DemirovicS18 [152]	Derrien15 [153]	DerrienP14 [154]	DerrienPZ14 [155]	DilkinaDH05 [157]	DincbasSH90 [158]
DoomsH08 [159]	DoulabiRP14 [160]	DoulabiRP16 [161]	EdisO11 [162]	EfthymiouY23 [163]	ElkhyariGJ02 [164]
ElkhyariGJ02a [165]	ErtlK91 [166]	EscobetPQPRA19 [167]	EvenSH15 [168]	EvenSH15a [169]	FahimiOQ18 [170]
FalaschiGMP97 [171]	FallahiAC20 [172]	FanXG21 [173]	FarsiTM22 [174]	Fatemi-AnarakiMFN22 [175]	FetgoD22 [176]
FocacciLN00 [177]	FontaineMH16 [178]	FortinZDF05 [179]	FrankK05 [180]	FriedrichFMRSS14 [181]	FrimodigS19 [182]
FrohnerTR19 [183]	FrostD98 [184]	GalleguillosKSB19 [185]	GarganiR07 [186]	GarridoAO09 [187]	GarridoOS08 [188]
GayHLS15 [189]	GayHS15 [190]	GayHS15a [191]	GaySS14 [192]	GedikKEK18 [193]	GeibingerKKMMW21 [194]
GeibingerMM19 [196]	GeibingerMM21 [197]	GeitzGSSW22 [198]	GelainPRVW17 [199]	Geske05 [200]	GilesH16 [201]
GingrasQ16 [202]	GodardLN05 [203]	Godet21a [204]	GodetLHS20 [205]	GoelSHFS15 [206]	GokgurHO18 [207]
GoldwasserS17 [208]	GoldwasserS18 [209]	Goltz95 [210]	GomesHS06 [211]	GrimesH10 [212]	GrimesH11 [213]
GrimesH15 [214]	GrimesHM09 [215]	GrimesIOS14 [216]	GroleazNS20 [218]	GroleazNS20a [217]	GruianK98 [219]

Table 1: Key Overview (Total: 566)

1	2	3	4	5	6
GuSS13 [220]	GuSW12 [221]	GurEA19 [566]	GurPAE23 [222]	HachemiGR11 [223]	Ham18 [224]
HamC16 [226]	HamPK21 [225]	HanenKP21 [227]	HarjunkoskiG02 [228]	HartmannB10 [229]	He0GLW18 [231]
HebrardALLCMR22 [232]	HebrardHJMPV16 [233]	HebrardTW05 [234]	HechingH16 [235]	HeckmanB11 [236]	HeinzB12 [237]
HeinzKB13 [238]	HeinzNVH22 [242]	HeinzS11 [240]	HeinzSB13 [241]	HeinzSSW12 [239]	HeipckeCCS00 [244]
HentenryckM04 [245]	HentenryckM08 [246]	HermenierDL11 [247]	HillTV21 [248]	HoYCLLC18 [249]	HoeveGSL07 [512]
Hooker00 [250]	Hooker04 [251]	Hooker05 [252]	Hooker05a [253]	Hooker06 [254]	Hooker07 [255]
Hooker17 [256]	Hooker19 [257]	HookerH18 [259]	HookerO03 [258]	HookerY02 [260]	HoundjiSWD14 [261]
HubnerGSV21 [262]	HurleyOS16 [263]	IfrimOS12 [264]	IsikYA23 [265]	JainG01 [266]	Jans09 [267]
JelinekB16 [268]	JourdanFRD94 [269]	JungblutK22 [270]	JuvinHHL23 [271]	JuvinHL23 [272]	KamarainenS02 [273]
Kameugne15 [274]	KameugneFGOQ18 [275]	KameugneFND23 [276]	KameugneFSN11 [277]	KameugneFSN14 [278]	KanetAG04 [279]
KelarevaTK13 [280]	KelbelH11 [281]	KeriK07 [282]	KhayatLR06 [283]	KhemmoudjPB06 [284]	KimCMLLP23 [285]
KlankeBYE21 [286]	KletzanderM17 [287]	KoehlerBFFHPSSS21 [288]	KolischS97 [289]	KorbaaYG00 [291]	KorbaaYG99 [290]
KoschB14 [292]	KovacsB07 [293]	KovacsB08 [294]	KovacsB11 [295]	KovacsEKV05 [296]	KovacsK11 [297]
KovacsTKSG21 [300]	KovacsV04 [298]	KovacsV06 [299]	KreterSS15 [301]	KreterSS17 [302]	KreterSSZ18 [303]
KrogtLPHJ07 [511]	KuB16 [304]	KuchcinskiW03 [305]	KucukY19 [307]	Kumar03 [306]	Laborie03 [308]
Laborie09 [309]	Laborie18a [310]	LaborieRSV18 [311]	LacknerMMWW21 [312]	LacknerMMWW23 [313]	LahimerLH11 [314]
LammaMM97 [315]	LauLN08 [316]	Layfield02 [317]	Lemos21 [318]	LetortBC12 [319]	LetortCB13 [320]
LetortCB15 [321]	LiFJZLL22 [322]	LiessM08 [323]	LimBTBB15 [326]	LimHTB16 [325]	LimRX04 [324]
Limtanyakul07 [327]	LimtanyakulS12 [328]	LipovetzkyBPS14 [329]	LiuCGM17 [331]	LiuJ06 [332]	LiuLH19 [330]
Lombardi10 [333]	LombardiBM15 [334]	LombardiBMB11 [335]	LombardiM09 [336]	LombardiM10 [338]	LombardiM10a [337]
LombardiM12 [340]	LombardiM12a [339]	LombardiM13 [341]	LopesCSM10 [342]	LopezAKYG00 [343]	LorigeonBB02 [344]
LouieVNB14 [345]	Lunardi20 [347]	LunardiBLRV20 [346]	LuoB22 [349]	LuoVLBM16 [348]	Madi-WambaB16 [350]
Madi-WambaLOBM17 [351]	MakMS10 [352]	Malapert11 [353]	MalapertN19 [354]	Malik08 [355]	MalikMB08 [356]
MaraveliasG04 [357]	MartinPY01 [358]	Mason01 [359]	Mehdizadeh-Somarin23 [360]	MejiaY20 [361]	MelgarejoLS15 [8]
Menana11 [362]	MengZRZL20 [363]	Mercier-AubinGQ20 [365]	MercierH08 [364]	MoffittPP05 [366]	MokhtarzadehTNF20 [367]
MonetteDD07 [368]	MonetteDH09 [369]	MontemanniD23 [371]	MontemanniD23a [370]	MossigeGSMC17 [372]	MouraSCL08 [374]
MouraSCL08a [373]	MullerMKP22 [375]	MurinR19 [376]	MurphyMB15 [377]	Muscettola02 [378]	MusliuSS18 [379]
NaderiBZ22 [380]	NaderiRR23 [381]	NattafAL15 [382]	NattafAL17 [383]	NattafM20 [384]	NethercoteSBBDT07 [385]
NishikawaSTT18 [387]	NishikawaSTT18a [388]	NishikawaSTT19 [389]	NovaraNH16 [390]	Novas19 [391]	NovasH10 [392]
NovasH12 [393]	NovasH14 [394]	NuijtenA94 [395]	NuijtenP98 [396]	OddiPCC03 [397]	OhrimenkoSC09 [398]
OuelletQ13 [399]	OuelletQ18 [400]	OuelletQ22 [401]	OujanaAYB22 [402]	OzturkTHO13 [403]	PandeyS21a [404]
PapaB98 [407]	Pape94 [405]	PapeB97 [406]	ParkUJR19 [408]	PembertonG98 [409]	PerezGSL23 [410]
PesantRR15 [412]	PoderB08 [414]	PoderBS04 [415]	PohlAK22 [416]	Polo-MejiaALB20 [417]	PopovicCGNC22 [418]
PourDERB18 [419]	PovedaAA23 [420]	Pralet17 [421]	PraletLJ15 [422]	PrataAN23 [423]	Puget95 [424]
QinDCS20 [426]	QinWSLS21 [425]	QuSN06 [427]	QuirogaZH05 [428]	RendlPHPR12 [429]	RiahiNS018 [430]
RodosekW98 [431]	Rodriguez07 [433]	RodriguezDG02 [432]	RossiTHP07 [434]	RuggieroBBMA09 [435]	SacramentoSP20 [436]

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1	2	3	4	5	6
Sadykov04 [437]	SadykovW06 [438]	SakkoutW00 [439]	SchausHMCMD11 [440]	SchildW00 [441]	SchuttCSW12 [442]
SchuttFS13 [444]	SchuttFS13a [443]	SchuttFSW09 [445]	SchuttFSW11 [447]	SchuttFSW13 [448]	SchuttFSW15 [449]
SchuttS16 [450]	SchuttW10 [451]	SchuttWS05 [452]	SerraNM12 [453]	ShaikhK23 [454]	Shaw98 [455]
ShiYXQ22 [456]	ShinBBHO18 [457]	Siala15 [458]	Siala15a [459]	SialaAH15 [460]	SimoninAHL12 [461]
SimoninAHL15 [462]	Simonis07 [466]	Simonis95 [464]	Simonis95a [463]	Simonis99 [465]	SimonisC95 [468]
SimonisCK00 [467]	SourdN00 [469]	SquillaciPR23 [470]	SubulanC22 [471]	SunLYL10 [473]	SureshMOK06 [474]
SvancaraB22 [475]	SzerediS16 [476]	Taillard93 [477]	TangB20 [478]	TangLWSK18 [479]	TardivoDFMP23 [480]
TasselGS23 [481]	Tay92 [483]	Teppan22 [484]	TerekhovDOB12 [485]	TerekhovTDB14 [486]	Tesch16 [487]
Tesch18 [488]	ThiruvadyBME09 [489]	ThiruvadyWGS14 [490]	Thorsteinsson01 [491]	Timpe02 [492]	Tom19 [493]
TopalogluO11 [494]	TorresL00 [495]	TouatBT22 [496]	Touraivane95 [497]	TranAB16 [498]	TranB12 [499]
TranDRFWOVB16 [500]	TranPZLDB18 [501]	TranTDB13 [502]	TranVNB17 [503]	TranVNB17a [504]	TranWDRFOVB16 [505]
TrojetHL11 [506]	Tsang03 [507]	ValleMGT03 [508]	VanczaM01 [513]	VerfaillieL01 [514]	Vilim02 [515]
Vilim03 [516]	Vilim04 [517]	Vilim05 [518]	Vilim09 [519]	Vilim09a [520]	Vilim11 [521]
VilimBC04 [522]	VilimBC05 [523]	VilimLS15 [524]	VillaverdeP04 [525]	VlkHT21 [526]	Wallace94 [527]
Wallace96 [528]	WallaceY20 [529]	WangB20 [530]	WangB23 [531]	WangMD15 [532]	WariZ19 [533]
WatsonB08 [534]	WessenCS20 [535]	WikarekS19 [536]	WinterMMW22 [537]	Wolf03 [538]	WolfS05 [539]
WolinskiKG04 [540]	WuBB05 [541]	WuBB09 [542]	YangSS19 [543]	YounespourAKE19 [544]	YoungFS17 [545]
YunusogluY22 [546]	YuraszeckMC23 [547]	YuraszeckMCCR23 [549]	YuraszeckMPV22 [548]	ZarandiASC20 [551]	ZarandiKS16 [550]
ZeballosH05 [552]	ZeballosQH10 [553]	ZhangBB22 [555]	ZhangJZL22 [554]	ZhangLS12 [558]	ZhangW18 [557]
ZhangYW21 [556]	Zhou96 [559]	Zhou97 [560]	ZhouGL15 [561]	ZhuS02 [562]	ZibranR11 [563]
ZibranR11a [564]	ZouZ20 [565]	abs-0907-0939 [413]	abs-1009-0347 [446]	abs-1901-07914 [68]	abs-1902-01193 [10]
abs-1902-09244 [230]	abs-1911-04766 [195]	abs-2102-08778 [134]	abs-2211-14492 [472]	abs-2305-19888 [243]	abs-2306-05747 [482]
abs-2312-13682 [411]	abs-2402-00459 [386]				

## 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 313)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	Pages	Nr Cites	Nr Refs	b	c
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	314	618
Bit-Monnot23 Bit-Monnot23	A. Bit-Monnot	Enhancing Hybrid CP-SAT Search for Disjunctive Scheduling	Yes	[86]	2023	ECAI 2023	8	0	0	356	619
EfthymiouY23 EfthymiouY23	N. Efthymiou, N. Yorke-Smith	Predicting the Optimal Period for Cyclic Hoist Scheduling Problems	Yes	[163]	2023	CPAIOR 2023	16	0	23	399	620
JuvinHHL23 JuvinHHL23	C. Juvin, E. Hebrard, L. Houssin, P. Lopez	An Efficient Constraint Programming Approach to Preemptive Job Shop Scheduling	Yes	[271]	2023	CP 2023	16	0	0	460	621
JuvinHL23 JuvinHL23 JuvinHL23	C. Juvin, L. Houssin, P. Lopez	Constraint Programming for the Robust Two-Machine Flow-Shop Scheduling Problem with Budgeted Uncertainty	Yes	[272]	2023	CPAIOR 2023	16	0	11	461	622
KameugneFND23 KameugneFND23	R. Kameugne, Séverine Betmbe Fetgo, T. Noulamo, Clémentin Tayou Djamégni	Horizontally Elastic Edge Finder Rule for Cumulative Constraint Based on Slack and Density	Yes	[276]	2023	CP 2023	17	0	0	464	623
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	[285]	2023	CPAIOR 2023	16	0	13	469	624
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	[360]	2023	APMS 2023	14	0	0	511	625
PerezGSL23 PerezGSL23	G. Perez, G. Glorian, W. Suijlen, A. Lallouet	A Constraint Programming Model for Scheduling the Unloading of Trains in Ports	Yes	[410]	2023	ICTAI 2023	7	0	0	536	626
PovedaAA23 PovedaAA23	G. Pováda, N. Álvarez, C. Artigues	Partially Preemptive Multi Skill/Mode Resource-Constrained Project Scheduling with Generalized Precedence Relations and Calendars	Yes	[420]	2023	CP 2023	21	0	0	540	627
SquillaciPR23 SquillaciPR23	S. Squillaci, C. Pralet, S. Roussel	Scheduling Complex Observation Requests for a Constellation of Satellites: Large Neighborhood Search Approaches	Yes	[470]	2023	CPAIOR 2023	17	0	19	566	628
TardivoDFMP23 TardivoDFMP23	F. Tardivo, A. Dovier, A. Formisano, L. Michel, E. Pontelli	Constraint Propagation on GPU: A Case Study for the Cumulative Constraint	Yes	[480]	2023	CPAIOR 2023	18	0	30	571	629
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	[481]	2023	ICAPS 2023	9	0	0	572	630
WangB23 WangB23	R. Wang, N. Barnier	Dynamic All-Different and Maximal Cliques Constraints for Fixed Job Scheduling	Yes	[531]	2023	ICTAI 2023	8	0	0	599	631
YuraszeckMC23 YuraszeckMC23	F. Yuraszeck, G. Mejía, D. Canut-de-Bon	A competitive constraint programming approach for the group shop scheduling problem	Yes	[547]	2023	ANT 2023	6	1	15	609	632
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	[21]	2022	CPAIOR 2022	13	0	14	324	633
BoudreaultSLQ22 BoudreaultSLQ22	R. Boudreault, V. Simard, D. Lafond, C. Quimper	A Constraint Programming Approach to Ship Refit Project Scheduling	Yes	[106]	2022	CP 2022	16	0	0	368	634
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	[198]	2022	CPAIOR 2022	18	0	24	420	635
HebrardALLCMR22 HebrardALLCMR22	E. Hebrard, C. Artigues, P. Lopez, A. Lussion, Steve A. Chien, A. Maillard, Gregg R. Rabideau	An Efficient Approach to Data Transfer Scheduling for Long Range Space Exploration	Yes	[232]	2022	IJCAI 2022	7	0	0	440	636
JungblutK22 JungblutK22	P. Jungblut, D. Kranzlmüller	Optimal Schedules for High-Level Programming Environments on FPGAs with Constraint Programming	Yes	[270]	2022	IPDPS 2022	4	0	0	459	637
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	[322]	2022	ICNSC 2022	6	0	31	490	638

Table 2: Works from bibtex (Total 313)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	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	[349]	2022	CPAIOR 2022	17	0	28	504	639
OuelletQ22 OuelletQ22	Y. Ouellet, C. Quimper	A MinCumulative Resource Constraint	Yes	[401]	2022	CPAIOR 2022	17	1	22	532	640
OujanaAYB22 OujanaAYB22	S. Oujana, L. Amodeo, F. Yalaoui, D. Brodard	Solving a realistic hybrid and flexible flow shop scheduling problem through constraint programming: industrial case in a packaging company	Yes	[402]	2022	CoDIT 2022	6	1	21	533	641
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	[418]	2022	CP 2022	15	0	0	539	642
SvancaraB22 SvancaraB22	J. Svancara, R. Barták	Tackling Train Routing via Multi-agent Pathfinding and Constraint-based Scheduling	Yes	[475]	2022	ICAART 2022	8	0	0	568	643
Teppan22 Teppan22	Erich Christian Teppan	Types of Flexible Job Shop Scheduling: A Constraint Programming Experiment	Yes	[484]	2022	ICAART 2022	8	0	0	573	644
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	[496]	2022	ICAART 2022	8	0	0	579	645
WinterMMW22 WinterMMW22	F. Winter, S. Meiswinkel, N. Musliu, D. Walkiewicz	Modeling and Solving Parallel Machine Scheduling with Contamination Constraints in the Agricultural Industry	Yes	[537]	2022	CP 2022	18	0	0	602	646
ZhangBB22 ZhangBB22	J. Zhang, Giovanni Lo Bianco, J. Christopher Beck	Solving Job-Shop Scheduling Problems with QUBO-Based Specialized Hardware	Yes	[555]	2022	ICAPS 2022	9	0	0	610	647
ZhangJZL22 ZhangJZL22	H. Zhang, Y. Ji, Z. Zhao, S. Liu	Constraint Programming for Modeling and Solving a Hybrid Flow Shop Scheduling Problem	Yes	[554]	2022	ICNSC 2022	6	0	21	611	648
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	[17]	2021	CP 2021	16	0	0	321	649
ArmstrongGOS21 ArmstrongGOS21	E. Armstrong, M. Garraffa, B. O'Sullivan, H. Simonis	The Hybrid Flexible Flowshop with Transportation Times	Yes	[20]	2021	CP 2021	18	1	0	323	650
ArtiguesHQT21 ArtiguesHQT21	C. Artigues, E. Hebrard, A. Quilliot, H. Toussaint	Multi-Mode RCPSP with Safety Margin Maximization: Models and Algorithms	No	[24]	2021	ICORES 2021	8	0	0	No	651
Astrand0F21 Astrand0F21	M. Åstrand, M. Johansson, Hamid Reza Feyzmahdavian	Short-Term Scheduling of Production Fleets in Underground Mines Using CP-Based LNS	Yes	[28]	2021	CPAIOR 2021	18	2	25	328	652
BenderWS21 BenderWS21	T. Bender, D. Wittwer, T. Schmidt	Applying Constraint Programming to the Multi-mode Scheduling Problem in Harvest Logistics	Yes	[75]	2021	ICCL 2021	16	1	16	350	653
GeibingerKKMMW21 GeibingerKKMMW21	T. Geibinger, L. Kletzander, M. Krainz, F. Mischek, N. Musliu, F. Winter	Physician Scheduling During a Pandemic	Yes	[194]	2021	CPAIOR 2021	10	0	6	417	654
GeibingerMM21 GeibingerMM21	T. Geibinger, F. Mischek, N. Musliu	Constraint Logic Programming for Real-World Test Laboratory Scheduling	Yes	[197]	2021	AAAI 2021	9	0	0	419	655
HanenKP21 HanenKP21	C. Hanen, Alix Munier Kordon, T. Pedersen	Two Deadline Reduction Algorithms for Scheduling Dependent Tasks on Parallel Processors	Yes	[227]	2021	CPAIOR 2021	17	1	24	438	656
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	[248]	2021	CPAIOR 2021	19	0	38	449	657
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	[286]	2021	CPAIOR 2021	16	3	13	470	658
KovacsTKSG21 KovacsTKSG21	B. Kovács, P. Tassel, W. Kohlenbrein, P. Schrott-Kostwein, M. Gebser	Utilizing Constraint Optimization for Industrial Machine Workload Balancing	Yes	[300]	2021	CP 2021	17	0	0	476	659
LacknerMMWW21 LacknerMMWW21	M. Lackner, C. Mrkvicka, N. Musliu, D. Walkiewicz, F. Winter	Minimizing Cumulative Batch Processing Time for an Industrial Oven Scheduling Problem	Yes	[312]	2021	CP 2021	18	0	0	485	660
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	[16]	2020	CP 2020	16	3	8	320	661

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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	[52]	2020	Fog-IoT 2020	9	0	0	340	662
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	[205]	2020	AAAI 2020	8	1	0	426	663
GroleazNS20 GroleazNS20	L. Groleaz, Samba Ndojh Ndiaye, C. Solnon	Solving the Group Cumulative Scheduling Problem with CPO and ACO	Yes	[218]	2020	CP 2020	17	1	25	433	664
GroleazNS20a GroleazNS20a	L. Groleaz, Samba Ndojh Ndiaye, C. Solnon	ACO with automatic parameter selection for a scheduling problem with a group cumulative constraint	Yes	[217]	2020	GECCO 2020	9	3	28	434	665
Mercier-AubinGQ20 Mercier-AubinGQ20	A. Mercier-Aubin, J. Gaudreault, C. Quimper	Leveraging Constraint Scheduling: A Case Study to the Textile Industry	Yes	[365]	2020	CPAIOR 2020	13	2	13	513	666
NattafM20 NattafM20	M. Nattaf, A. Malapert	Filtering Rules for Flow Time Minimization in a Parallel Machine Scheduling Problem	Yes	[384]	2020	CP 2020	16	0	6	524	667
TangB20 TangB20	Tanya Y. Tang, J. Christopher Beck	CP and Hybrid Models for Two-Stage Batching and Scheduling	Yes	[478]	2020	CPAIOR 2020	16	6	12	570	668
WangB20 WangB20	R. Wang, N. Barnier	Global Propagation of Transition Cost for Fixed Job Scheduling	Yes	[530]	2020	ECAI 2020	8	0	0	598	669
WessenCS20 WessenCS20	J. Wessén, M. Carlsson, C. Schulte	Scheduling of Dual-Arm Multi-tool Assembly Robots and Workspace Layout Optimization	Yes	[535]	2020	CPAIOR 2020	10	2	11	601	670
BadicaBIL19 BadicaBIL19	A. Badica, C. Badica, M. Ivanovic, D. Logofatu	Exploring the Space of Block Structured Scheduling Processes Using Constraint Logic Programming	Yes	[32]	2019	IDC 2019	11	2	6	330	671
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	[67]	2019	ICRA 2019	7	12	18	346	672
BogaerdtW19 BogaerdtW19	Pim van den Bogaerdt, Mathijs de Weerd	Lower Bounds for Uniform Machine Scheduling Using Decision Diagrams	Yes	[510]	2019	CPAIOR 2019	16	1	16	360	673
ColT19 ColT19	Giacomo Da Col, Erich Christian Teppan	Industrial Size Job Shop Scheduling Tackled by Present Day CP Solvers	Yes	[135]	2019	CP 2019	17	11	12	385	674
FrimodigS19 FrimodigS19	S. Frimodig, C. Schulte	Models for Radiation Therapy Patient Scheduling	Yes	[182]	2019	CP 2019	17	3	26	408	675
FrohnerTR19 FrohnerTR19	N. Frohner, S. Teuschl, Günther R. Raidl	Casual Employee Scheduling with Constraint Programming and Metaheuristics	Yes	[183]	2019	EUROCAST 2019	9	0	6	409	676
GalleguillosKSB19 GalleguillosKSB19	C. Galleguillos, Z. Kiziltan, A. Sirbu, Özalp Babaoglu	Constraint Programming-Based Job Dispatching for Modern HPC Applications	Yes	[185]	2019	CP 2019	18	1	27	411	677
GeibingerMM19 GeibingerMM19	T. Geibinger, F. Mischek, N. Musliu	Investigating Constraint Programming for Real World Industrial Test Laboratory Scheduling	Yes	[196]	2019	CPAIOR 2019	16	6	15	418	678
KucukY19 KucukY19	M. Küçük, Seyda Topaloglu Yildiz	A Constraint Programming Approach for Agile Earth Observation Satellite Scheduling Problem	Yes	[307]	2019	RAST 2019	5	0	0	481	679
LiuLH19 LiuLH19	K. Liu, S. Löffler, P. Hofstedt	Solving the Talent Scheduling Problem by Parallel Constraint Programming	Yes	[330]	2019	AIAI 2019	9	1	5	498	680
MalapertN19 MalapertN19	A. Malapert, M. Nattaf	A New CP-Approach for a Parallel Machine Scheduling Problem with Time Constraints on Machine Qualifications	Yes	[354]	2019	CPAIOR 2019	17	1	7	509	681
MurinR19 MurinR19	S. Murín, H. Rudová	Scheduling of Mobile Robots Using Constraint Programming	Yes	[376]	2019	CP 2019	16	2	22	520	682
ParkUJR19 ParkUJR19	H. Park, J. Um, J. Jung, M. Ruskowski	Developing a Production Scheduling System for Modular Factory Using Constraint Programming	Yes	[408]	2019	RAAD 2019	8	1	3	534	683
Tom19 Tom19	M. Tom	Fuzzy Multi-Constraint Programming Model for Weekly Meals Scheduling	Yes	[493]	2019	FUZZ-IEEE 2019	6	0	21	578	684
YangSS19 YangSS19	M. Yang, A. Schutt, Peter J. Stuckey	Time Table Edge Finding with Energy Variables	Yes	[543]	2019	CPAIOR 2019	10	1	14	607	685



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AntunesABDEGGOL18 AntunesABDEGGOL18	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	No	[14]	2018	ICTAI 2018	8	1	24	No	686
ArbaouiY18 ArbaouiY18	T. Arbaoui, F. Yalaoui	Solving the Unrelated Parallel Machine Scheduling Problem with Additional Resources Using Constraint Programming	Yes	[19]	2018	ACIIDS 2018	10	2	14	322	687
AstrandJZ18 AstrandJZ18	M. Åstrand, M. Johansson, A. Zanarini	Fleet Scheduling in Underground Mines Using Constraint Programming	Yes	[29]	2018	CPAIOR 2018	9	9	10	329	688
BenediktSMVH18 BenediktSMVH18	O. Benedikt, P. Sucha, I. Módos, M. Vlk, Z. Hanzálek	Energy-Aware Production Scheduling with Power-Saving Modes	Yes	[78]	2018	CPAIOR 2018	10	2	12	351	689
CappartTSR18 CappartTSR18	Q. Cappart, C. Thomas, P. Schaus, L. Rousseau	A Constraint Programming Approach for Solving Patient Transportation Problems	Yes	[117]	2018	CP 2018	17	6	31	373	690
DemirovicS18 DemirovicS18	E. Demirovic, Peter J. Stuckey	Constraint Programming for High School Timetabling: A Scheduling-Based Model with Hot Starts	Yes	[152]	2018	CPAIOR 2018	18	4	16	392	691
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	[231]	2018	CP 2018	18	6	26	439	692
HoYCLLC18 HoYCLLC18	T. Ho, J. Yao, Y. Chang, F. Lai, J. Lai, S. Chu, W. Liao, H. Chiu	A Platform for Dynamic Optimal Nurse Scheduling Based on Integer Linear Programming along with Multiple Criteria Constraints	Yes	[249]	2018	AICCC 2018	6	2	14	450	693
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	[275]	2018	CPAIOR 2018	17	1	12	463	694
Laborie18a Laborie18a	P. Laborie	An Update on the Comparison of MIP, CP and Hybrid Approaches for Mixed Resource Allocation and Scheduling	Yes	[310]	2018	CPAIOR 2018	9	18	10	484	695
MusliuSS18 MusliuSS18	N. Musliu, A. Schutt, Peter J. Stuckey	Solver Independent Rotating Workforce Scheduling	Yes	[379]	2018	CPAIOR 2018	17	7	23	523	696
NishikawaSTT18 NishikawaSTT18	H. Nishikawa, K. Shimada, I. Taniguchi, H. Tomiyama	Scheduling of Malleable Fork-Join Tasks with Constraint Programming	Yes	[387]	2018	CANDAR 2018	6	2	14	526	697
NishikawaSTT18a NishikawaSTT18a	H. Nishikawa, K. Shimada, I. Taniguchi, H. Tomiyama	Scheduling of Malleable Tasks Based on Constraint Programming	Yes	[388]	2018	TENCON 2018	6	1	9	527	698
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	[400]	2018	CPAIOR 2018	18	6	16	531	699
RiahiNS018 RiahiNS018	V. Riahi, M. A. Hakim Newton, K. Su, A. Sattar	Local Search for Flowshops with Setup Times and Blocking Constraints	Yes	[430]	2018	ICAPS 2018	9	0	0	547	700
Tesch18 Tesch18	A. Tesch	Improving Energetic Propagations for Cumulative Scheduling	Yes	[488]	2018	CP 2018	17	5	21	575	701
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	[92]	2017	CP 2017	9	1	12	357	702
CappartS17 CappartS17	Q. Cappart, P. Schaus	Rescheduling Railway Traffic on Real Time Situations Using Time-Interval Variables	Yes	[116]	2017	CPAIOR 2017	16	2	28	372	703
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	[133]	2017	SAT 2017	17	1	12	384	704
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	[199]	2017	CPAIOR 2017	16	1	5	421	705
GoldwaserS17 GoldwaserS17	A. Goldwaser, A. Schutt	Optimal Torpedo Scheduling	Yes	[208]	2017	CP 2017	16	0	10	427	706
Hooker17 Hooker17	John N. Hooker	Job Sequencing Bounds from Decision Diagrams	Yes	[256]	2017	CP 2017	14	6	24	454	707
KletzanderM17 KletzanderM17	L. Kletzander, N. Musliu	A Multi-stage Simulated Annealing Algorithm for the Torpedo Scheduling Problem	Yes	[287]	2017	CPAIOR 2017	15	1	9	471	708
LiuCGM17 LiuCGM17	T. Liu, Roberto Di Cosmo, M. Gabbrielli, J. Mauro	NightSplitter: A Scheduling Tool to Optimize (Sub)group Activities	Yes	[331]	2017	CP 2017	17	0	15	496	709

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Madi-WambaLOBM17	G. Madi-Wamba, Y. Li, A. Orgerie, N. Beldiceanu, J. Menaud	Green Energy Aware Scheduling Problem in Virtualized Datacenters	Yes	[351]	2017	ICPADS 2017	8	1	8	507	710
Madi-WambaLOBM17											
MossigeGSMC17	M. Mossige, A. Gotlieb, H. Spieker, H. Meling, M. Carlsson	Time-Aware Test Case Execution Scheduling for Cyber-Physical Systems	Yes	[372]	2017	CP 2017	18	6	33	517	711
MossigeGSMC17											
Pralet17 Pralet17	C. Pralet	An Incomplete Constraint-Based System for Scheduling with Renewable Resources	Yes	[421]	2017	CP 2017	19	1	30	541	712
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	[504]	2017	IJCAI 2017	5	1	0	584	713
TranVNB17a											
YoungFS17 YoungFS17	Kenneth D. Young, T. Feydy, A. Schutt	Constraint Programming Applied to the Multi-Skill Project Scheduling Problem	Yes	[545]	2017	CP 2017	10	6	21	608	714
BonfiettiZLM16	A. Bonfietti, A. Zanarini, M. Lombardi, M. Milano	The Multirate Resource Constraint	Yes	[102]	2016	CP 2016	17	0	11	366	715
BonfiettiZLM16											
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	[103]	2016	CP 2016	17	21	24	367	716
BridiLBBM16	T. Bridi, M. Lombardi, A. Bartolini, L. Benini, M. Milano	DARDIS: Distributed And Randomized DIspatching and Scheduling	Yes	[110]	2016	ECAI 2016	2	0	0	369	717
BridiLBBM16											
CauwelaertDMS16	Sascha Van Cauwelaert, C. Dejemeppe, J. Monette, P. Schaus	Efficient Filtering for the Unary Resource with Family-Based Transition Times	Yes	[123]	2016	CP 2016	16	1	12	376	718
CauwelaertDMS16											
FontaineMH16	D. Fontaine, Laurent D. Michel, Pascal Van Hentenryck	Parallel Composition of Scheduling Solvers	Yes	[178]	2016	CPAIOR 2016	11	3	0	405	719
FontaineMH16											
GilesH16 GilesH16	K. Giles, Willem-Jan van Hoeve	Solving a Supply-Delivery Scheduling Problem with Constraint Programming	Yes	[201]	2016	CP 2016	16	2	6	423	720
GingrasQ16 GingrasQ16	V. Gingras, C. Quimper	Generalizing the Edge-Finder Rule for the Cumulative Constraint	Yes	[202]	2016	IJCAI 2016	7	0	0	424	721
HechingH16	Aliza R. Heching, John N. Hooker	Scheduling Home Hospice Care with Logic-Based Benders Decomposition	Yes	[235]	2016	CPAIOR 2016	11	10	0	442	722
HechingH16											
JelinekB16 JelinekB16	J. Jelínek, R. Barták	Using Constraint Logic Programming to Schedule Solar Array Operations on the International Space Station	Yes	[268]	2016	PADL 2016	10	0	5	458	723
LimHTB16 LimHTB16	B. Lim, Hassan L. Hijazi, S. Thiébaux, Menkes van den Briel	Online HVAC-Aware Occupancy Scheduling with Adaptive Temperature Control	Yes	[325]	2016	CP 2016	18	2	23	492	724
LuoVLBM16	R. Luo, Richard Anthony Valenzano, Y. Li, J. Christopher Beck, Sheila A. McIlraith	Using Metric Temporal Logic to Specify Scheduling Problems	Yes	[348]	2016	KR 2016	4	0	0	505	725
LuoVLBM16											
Madi-WambaB16	G. Madi-Wamba, N. Beldiceanu	The TaskIntersection Constraint	Yes	[350]	2016	CPAIOR 2016	16	0	0	506	726
Madi-WambaB16											
SchuttS16 SchuttS16	A. Schutt, Peter J. Stuckey	Explaining Producer/Consumer Constraints	Yes	[450]	2016	CP 2016	17	3	23	555	727
SzerediS16 SzerediS16	R. Szeredi, A. Schutt	Modelling and Solving Multi-mode Resource-Constrained Project Scheduling	Yes	[476]	2016	CP 2016	10	9	14	569	728
Tesch16 Tesch16	A. Tesch	A Nearly Exact Propagation Algorithm for Energetic Reasoning in $\mathcal{O}(n^2 \log n)$	Yes	[487]	2016	CP 2016	27	4	14	574	729
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	[500]	2016	SOCS 2016	9	3	0	582	730
TranDRFWOVB16											
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	[505]	2016	AAAI 2016	9	0	0	585	731
TranWDRFOVB16											
BartakV15 BartakV15	R. Barták, M. Vlk	Reactive Recovery from Machine Breakdown in Production Scheduling with Temporal Distance and Resource Constraints	Yes	[50]	2015	ICAART 2015	12	0	0	338	732
BofillGSV15	M. Bofill, M. Garcia, J. Suy, M. Villaret	MaxSAT-Based Scheduling of B2B Meetings	Yes	[94]	2015	CPAIOR 2015	9	7	8	359	733
BofillGSV15											

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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	[113]	2015	CPAIOR 2015	17	0	8	371	734
DejemeppeCS15 DejemeppeCS15	C. Dejemeppe, Sascha Van Cauwelaert, P. Schaus	The Unary Resource with Transition Times	Yes	[149]	2015	CP 2015	16	5	11	390	735
EvenSH15 EvenSH15	C. Even, A. Schutt, Pascal Van Hentenryck	A Constraint Programming Approach for Non-preemptive Evacuation Scheduling	Yes	[168]	2015	CP 2015	18	3	12	403	736
GayHLS15 GayHLS15	S. Gay, R. Hartert, C. Lecoutre, P. Schaus	Conflict Ordering Search for Scheduling Problems	Yes	[189]	2015	CP 2015	9	20	15	413	737
GayHS15 GayHS15	S. Gay, R. Hartert, P. Schaus	Simple and Scalable Time-Table Filtering for the Cumulative Constraint	Yes	[190]	2015	CP 2015	9	10	9	414	738
GayHS15a GayHS15a	S. Gay, R. Hartert, P. Schaus	Time-Table Disjunctive Reasoning for the Cumulative Constraint	Yes	[191]	2015	CPAIOR 2015	16	5	12	415	739
KreterSS15 KreterSS15	S. Kreter, A. Schutt, Peter J. Stuckey	Modeling and Solving Project Scheduling with Calendars	Yes	[301]	2015	CP 2015	17	7	16	479	740
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	[326]	2015	CPAIOR 2015	15	4	18	491	741
LombardiBM15 LombardiBM15	M. Lombardi, A. Bonfietti, M. Milano	Deterministic Estimation of the Expected Makespan of a POS Under Duration Uncertainty	Yes	[334]	2015	CP 2015	16	0	8	499	742
MelgarejoLS15 MelgarejoLS15	P. Aguiar-Melgarejo, P. Laborie, C. Solnon	A Time-Dependent No-Overlap Constraint: Application to Urban Delivery Problems	Yes	[8]	2015	CPAIOR 2015	17	14	17	512	743
MurphyMB15 MurphyMB15	Seán Óg Murphy, O. Manzano, Kenneth N. Brown	Design and Evaluation of a Constraint-Based Energy Saving and Scheduling Recommender System	Yes	[377]	2015	CP 2015	17	1	20	521	744
PesantRR15 PesantRR15	G. Pesant, G. Rix, L. Rousseau	A Comparative Study of MIP and CP Formulations for the B2B Scheduling Optimization Problem	Yes	[412]	2015	CPAIOR 2015	16	1	7	537	745
PraletLJ15 PraletLJ15	C. Pralet, S. Lemai-Chenevier, J. Jaubert	Scheduling Running Modes of Satellite Instruments Using Constraint-Based Local Search	Yes	[422]	2015	CP 2015	16	0	8	542	746
SialaAH15 SialaAH15	M. Siala, C. Artigues, E. Hebrard	Two Clause Learning Approaches for Disjunctive Scheduling	Yes	[460]	2015	CP 2015	10	4	17	560	747
VilimLS15 VilimLS15	P. Vilím, P. Laborie, P. Shaw	Failure-Directed Search for Constraint-Based Scheduling	Yes	[524]	2015	CPAIOR 2015	17	31	19	597	748
ZhouGL15 ZhouGL15	J. Zhou, Y. Guo, G. Li	On complex hybrid flexible flowshop scheduling problems based on constraint programming	Yes	[561]	2015	FSKD 2015	5	0	16	614	749
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	[156]	2014	CP 2014	18	3	19	318	750
BartoliniBBLM14 BartoliniBBLM14	A. Bartolini, A. Borghesi, T. Bridi, M. Lombardi, M. Milano	Proactive Workload Dispatching on the EURORA Supercomputer	Yes	[51]	2014	CP 2014	16	12	3	339	751
BessiereHMQW14 BessiereHMQW14	C. Bessiere, E. Hebrard, M. Ménard, C. Quimper, T. Walsh	Buffered Resource Constraint: Algorithms and Complexity	Yes	[83]	2014	CPAIOR 2014	16	1	3	354	752
BofillEGPSV14 BofillEGPSV14	M. Bofill, J. Espasa, M. Garcia, M. Palahí, J. Suy, M. Villaret	Scheduling B2B Meetings	Yes	[93]	2014	CP 2014	16	3	10	358	753
BonfiettiLM14 BonfiettiLM14	A. Bonfietti, M. Lombardi, M. Milano	Disregarding Duration Uncertainty in Partial Order Schedules? Yes, We Can!	Yes	[100]	2014	CPAIOR 2014	16	3	12	364	754
DejemeppeD14 DejemeppeD14	C. Dejemeppe, Y. Deville	Continuously Degrading Resource and Interval Dependent Activity Durations in Nuclear Medicine Patient Scheduling	Yes	[150]	2014	CPAIOR 2014	9	0	7	391	755
DerrienP14 DerrienP14	A. Derrien, T. Petit	A New Characterization of Relevant Intervals for Energetic Reasoning	Yes	[154]	2014	CP 2014	9	14	0	393	756
DerrienPZ14 DerrienPZ14	A. Derrien, T. Petit, S. Zampelli	A Declarative Paradigm for Robust Cumulative Scheduling	Yes	[155]	2014	CP 2014	9	3	10	394	757
DoulabiRP14 DoulabiRP14	Sayed Hossein Hashemi Doulabi, L. Rousseau, G. Pesant	A Constraint Programming-Based Column Generation Approach for Operating Room Planning and Scheduling	Yes	[160]	2014	CPAIOR 2014	9	3	10	397	758
FriedrichFMRST14 FriedrichFMRST14	G. Friedrich, M. Frühstück, V. Mersheeva, A. Ryabokon, M. Sander, A. Starzacher, E. Teppan	Representing Production Scheduling with Constraint Answer Set Programming	No	[181]	2014	GOR 2014	7	3	2	No	759

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GaySS14	GaySS14	S. Gay, P. Schaus, Vivian De Smedt	Continuous Casting Scheduling with Constraint Programming	Yes	[192]	2014	CP 2014	15	7	11	416	760
HoundjiSWD14	Vinasétan Ratheil Houndji, P. Schaus, Laurence A. Wolsey, Y. Deville	The StockingCost Constraint	Yes	[261]	2014	CP 2014	16	5	7	456	761	
HoundjiSWD14	A. Kosch, J. Christopher Beck	A New MIP Model for Parallel-Batch Scheduling with Non-identical Job Sizes	Yes	[292]	2014	CPAIOR 2014	16	4	18	473	762	
KoschB14	KoschB14	A New MIP Model for Parallel-Batch Scheduling with Non-identical Job Sizes	Yes	[292]	2014	CPAIOR 2014	16	4	18	473	762	
LipovetzkyBPS14	N. Lipovetzky, Christina N. Burt, Adrian R. Pearce, Peter J. Stuckey	Planning for Mining Operations with Time and Resource Constraints	Yes	[329]	2014	ICAPS 2014	9	0	0	495	763	
LipovetzkyBPS14	N. Lipovetzky, Christina N. Burt, Adrian R. Pearce, Peter J. Stuckey	Planning for Mining Operations with Time and Resource Constraints	Yes	[329]	2014	ICAPS 2014	9	0	0	495	763	
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	No	[345]	2014	ICRA 2014	7	16	9	No	764	
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	No	[345]	2014	ICRA 2014	7	16	9	No	764	
BonfiettiLM13	A. Bonfietti, M. Lombardi, M. Milano	De-Cycling Cyclic Scheduling Problems	Yes	[99]	2013	ICAPS 2013	5	0	0	363	765	
BonfiettiLM13	A. Bonfietti, M. Lombardi, M. Milano	De-Cycling Cyclic Scheduling Problems	Yes	[99]	2013	ICAPS 2013	5	0	0	363	765	
ChuGNSW13	G. Chu, S. Gaspers, N. Narodytska, A. Schutt, T. Walsh	On the Complexity of Global Scheduling Constraints under Structural Restrictions	Yes	[128]	2013	IJCAI 2013	7	0	0	379	766	
ChuGNSW13	G. Chu, S. Gaspers, N. Narodytska, A. Schutt, T. Walsh	On the Complexity of Global Scheduling Constraints under Structural Restrictions	Yes	[128]	2013	IJCAI 2013	7	0	0	379	766	
CireCH13	CireCH13	André A. Ciré, E. Coban, John N. Hooker	Mixed Integer Programming vs. Logic-Based Benders Decomposition for Planning and Scheduling	Yes	[130]	2013	CPAIOR 2013	7	3	23	381	767
CireCH13	CireCH13	André A. Ciré, E. Coban, John N. Hooker	Mixed Integer Programming vs. Logic-Based Benders Decomposition for Planning and Scheduling	Yes	[130]	2013	CPAIOR 2013	7	3	23	381	767
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	[220]	2013	CPAIOR 2013	7	10	24	436	768
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	[220]	2013	CPAIOR 2013	7	10	24	436	768
HeinzKB13	HeinzKB13	S. Heinz, W. Ku, J. Christopher Beck	Recent Improvements Using Constraint Integer Programming for Resource Allocation and Scheduling	Yes	[238]	2013	CPAIOR 2013	16	9	15	444	769
HeinzKB13	HeinzKB13	S. Heinz, W. Ku, J. Christopher Beck	Recent Improvements Using Constraint Integer Programming for Resource Allocation and Scheduling	Yes	[238]	2013	CPAIOR 2013	16	9	15	444	769
KelarevaTK13	E. Kelareva, K. Tierney, P. Kilby	CP Methods for Scheduling and Routing with Time-Dependent Task Costs	Yes	[280]	2013	CPAIOR 2013	17	16	28	466	770	
KelarevaTK13	E. Kelareva, K. Tierney, P. Kilby	CP Methods for Scheduling and Routing with Time-Dependent Task Costs	Yes	[280]	2013	CPAIOR 2013	17	16	28	466	770	
LetortCB13	LetortCB13	A. Letort, M. Carlsson, N. Beldiceanu	A Synchronized Sweep Algorithm for the <i>k-dimensional cumulative</i> Constraint	Yes	[320]	2013	CPAIOR 2013	16	3	10	489	771
LetortCB13	LetortCB13	A. Letort, M. Carlsson, N. Beldiceanu	A Synchronized Sweep Algorithm for the <i>k-dimensional cumulative</i> Constraint	Yes	[320]	2013	CPAIOR 2013	16	3	10	489	771
LombardiM13	M. Lombardi, M. Milano	A Min-Flow Algorithm for Minimal Critical Set Detection in Resource Constrained Project Scheduling	Yes	[341]	2013	ICAPS 2013	2	0	0	503	772	
LombardiM13	M. Lombardi, M. Milano	A Min-Flow Algorithm for Minimal Critical Set Detection in Resource Constrained Project Scheduling	Yes	[341]	2013	ICAPS 2013	2	0	0	503	772	
OuelletQ13	OuelletQ13	P. Ouellet, C. Quimper	Time-Table Extended-Edge-Finding for the Cumulative Constraint	Yes	[399]	2013	CP 2013	16	12	14	530	773
OuelletQ13	OuelletQ13	P. Ouellet, C. Quimper	Time-Table Extended-Edge-Finding for the Cumulative Constraint	Yes	[399]	2013	CP 2013	16	12	14	530	773
SchuttFS13	SchuttFS13	A. Schutt, T. Feydy, Peter J. Stuckey	Scheduling Optional Tasks with Explanation	Yes	[444]	2013	CP 2013	17	10	20	552	774
SchuttFS13a	SchuttFS13a	A. Schutt, T. Feydy, Peter J. Stuckey	Explaining Time-Table-Edge-Finding Propagation for the Cumulative Resource Constraint	Yes	[443]	2013	CPAIOR 2013	17	20	27	553	775
SchuttFS13a	SchuttFS13a	A. Schutt, T. Feydy, Peter J. Stuckey	Explaining Time-Table-Edge-Finding Propagation for the Cumulative Resource Constraint	Yes	[443]	2013	CPAIOR 2013	17	20	27	553	775
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	[502]	2013	ICAPS 2013	9	0	0	583	776
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	[502]	2013	ICAPS 2013	9	0	0	583	776
BillautHL12	BillautHL12	J. Billaut, E. Hebrard, P. Lopez	Complete Characterization of Near-Optimal Sequences for the Two-Machine Flow Shop Scheduling Problem	Yes	[85]	2012	CPAIOR 2012	15	1	19	355	777
BillautHL12	BillautHL12	J. Billaut, E. Hebrard, P. Lopez	Complete Characterization of Near-Optimal Sequences for the Two-Machine Flow Shop Scheduling Problem	Yes	[85]	2012	CPAIOR 2012	15	1	19	355	777
BonfiettiLBM12	BonfiettiLBM12	A. Bonfietti, M. Lombardi, L. Benini, M. Milano	Global Cyclic Cumulative Constraint	Yes	[97]	2012	CPAIOR 2012	16	2	11	362	778
BonfiettiLBM12	BonfiettiLBM12	A. Bonfietti, M. Lombardi, L. Benini, M. Milano	Global Cyclic Cumulative Constraint	Yes	[97]	2012	CPAIOR 2012	16	2	11	362	778
BonfiettiM12	BonfiettiM12	A. Bonfietti, M. Milano	A Constraint-based Approach to Cyclic Resource-Constrained Scheduling Problem	Yes	[101]	2012	DC SIAAI 2012	3	0	0	365	779
BonfiettiM12	BonfiettiM12	A. Bonfietti, M. Milano	A Constraint-based Approach to Cyclic Resource-Constrained Scheduling Problem	Yes	[101]	2012	DC SIAAI 2012	3	0	0	365	779
GuSW12	GuSW12	H. Gu, Peter J. Stuckey, Mark G. Wallace	Maximising the Net Present Value of Large Resource-Constrained Projects	Yes	[221]	2012	CP 2012	15	5	20	437	780
GuSW12	GuSW12	H. Gu, Peter J. Stuckey, Mark G. Wallace	Maximising the Net Present Value of Large Resource-Constrained Projects	Yes	[221]	2012	CP 2012	15	5	20	437	780
HeinzB12	HeinzB12	S. Heinz, J. Christopher Beck	Reconsidering Mixed Integer Programming and MIP-Based Hybrids for Scheduling	Yes	[237]	2012	CPAIOR 2012	17	8	21	443	781
HeinzB12	HeinzB12	S. Heinz, J. Christopher Beck	Reconsidering Mixed Integer Programming and MIP-Based Hybrids for Scheduling	Yes	[237]	2012	CPAIOR 2012	17	8	21	443	781
IfrimOS12	IfrimOS12	G. Ifrim, B. O'Sullivan, H. Simonis	Properties of Energy-Price Forecasts for Scheduling	Yes	[264]	2012	CP 2012	16	6	20	457	782
IfrimOS12	IfrimOS12	G. Ifrim, B. O'Sullivan, H. Simonis	Properties of Energy-Price Forecasts for Scheduling	Yes	[264]	2012	CP 2012	16	6	20	457	782
LetortBC12	LetortBC12	A. Letort, N. Beldiceanu, M. Carlsson	A Scalable Sweep Algorithm for the cumulative Constraint	Yes	[319]	2012	CP 2012	16	18	12	488	783
LetortBC12	LetortBC12	A. Letort, N. Beldiceanu, M. Carlsson	A Scalable Sweep Algorithm for the cumulative Constraint	Yes	[319]	2012	CP 2012	16	18	12	488	783
RendlPHPR12	RendlPHPR12	A. Rendl, M. Prandtstetter, G. Hiermann, J. Puchinger, Günther R. Raidl	Hybrid Heuristics for Multimodal Homecare Scheduling	Yes	[429]	2012	CPAIOR 2012	17	14	14	546	784
RendlPHPR12	RendlPHPR12	A. Rendl, M. Prandtstetter, G. Hiermann, J. Puchinger, Günther R. Raidl	Hybrid Heuristics for Multimodal Homecare Scheduling	Yes	[429]	2012	CPAIOR 2012	17	14	14	546	784
SchuttCSW12	SchuttCSW12	A. Schutt, G. Chu, Peter J. Stuckey, Mark G. Wallace	Maximising the Net Present Value for Resource-Constrained Project Scheduling	Yes	[442]	2012	CPAIOR 2012	17	18	21	551	785
SchuttCSW12	SchuttCSW12	A. Schutt, G. Chu, Peter J. Stuckey, Mark G. Wallace	Maximising the Net Present Value for Resource-Constrained Project Scheduling	Yes	[442]	2012	CPAIOR 2012	17	18	21	551	785

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SerraNM12	SerraNM12	T. Serra, G. Nishioka, Fernando J. M. Marcellino	The Offshore Resources Scheduling Problem: Detailing a Constraint Programming Approach	Yes	[453]	2012	CP 2012	17	0	8	558	786
SimoninAHL12	G. Simonin, C. Artigues, E. Hebrard, P. Lopez	Scheduling Scientific Experiments on the Rosetta/Philae Mission	Yes	[461]	2012	CP 2012	15	3	8	561	787	
SimoninAHL12												
TranB12	TranB12	Tony T. Tran, J. Christopher Beck	Logic-based Benders Decomposition for Alternative Resource Scheduling with Sequence Dependent Setups	Yes	[499]	2012	ECAI 2012	6	0	0	581	788
ZhangLS12	ZhangLS12	X. Zhang, Z. Lv, X. Song	Model and Solution for Hot Strip Rolling Scheduling Problem Based on Constraint Programming Method	Yes	[558]	2012	CIT 2012	4	1	3	612	789
BajestaniB11	Maliheh Aramon Bajestani, J. Christopher Beck	Scheduling an Aircraft Repair Shop	Yes	[33]	2011	ICAPS 2011	8	0	0	331	790	
BajestaniB11												
BonfiettiLBM11	A. Bonfietti, M. Lombardi, L. Benini, M. Milano	A Constraint Based Approach to Cyclic RCPSP	Yes	[96]	2011	CP 2011	15	3	14	361	791	
BonfiettiLBM11												
ChapadosJR11	N. Chapados, M. Joliveau, L. Rousseau	Retail Store Workforce Scheduling by Expected Operating Income Maximization	Yes	[127]	2011	CPAIOR 2011	6	5	12	378	792	
ChapadosJR11												
ClercqPBJ11	Alexis De Clercq, T. Petit, N. Beldiceanu, N. Jussien	Filtering Algorithms for Discrete Cumulative Problems with Overloads of Resource	Yes	[131]	2011	CP 2011	16	3	11	382	793	
ClercqPBJ11												
EdisO11	EdisO11	Emrah B. Edis, C. Oguz	Parallel Machine Scheduling with Additional Resources: A Lagrangian-Based Constraint Programming Approach	Yes	[162]	2011	CPAIOR 2011	7	5	16	398	794
GrimesH11	GrimesH11	D. Grimes, E. Hebrard	Models and Strategies for Variants of the Job Shop Scheduling Problem	Yes	[213]	2011	CP 2011	17	5	18	431	795
HeinzS11	HeinzS11	S. Heinz, J. Schulz	Explanations for the Cumulative Constraint: An Experimental Study	Yes	[240]	2011	SEA 2011	10	5	12	445	796
HermenierDL11	F. Hermenier, S. Demasse, X. Lorca	Bin Repacking Scheduling in Virtualized Datacenters	Yes	[247]	2011	CP 2011	15	28	5	448	797	
HermenierDL11												
KameugneFSN11	R. Kameugne, Laure Pauline Fotso, Joseph D. Scott, Y. Ngo-Kateu	A Quadratic Edge-Finding Filtering Algorithm for Cumulative Resource Constraints	Yes	[277]	2011	CP 2011	15	7	9	465	798	
KameugneFSN11												
LahimerLH11	A. Lahimer, P. Lopez, M. Haouari	Climbing Depth-Bounded Adjacent Discrepancy Search for Solving Hybrid Flow Shop Scheduling Problems with Multiprocessor Tasks	Yes	[314]	2011	CPAIOR 2011	14	3	15	486	799	
LahimerLH11												
LombardiBMB11	M. Lombardi, A. Bonfietti, M. Milano, L. Benini	Precedence Constraint Posting for Cyclic Scheduling Problems	Yes	[335]	2011	CPAIOR 2011	17	1	13	500	800	
LombardiBMB11												
Vilim11	Vilim11	P. Vilím	Timetable Edge Finding Filtering Algorithm for Discrete Cumulative Resources	Yes	[521]	2011	CPAIOR 2011	16	28	6	595	801
ZibranR11	ZibranR11	Minhaz F. Zibran, Chanchal K. Roy	Conflict-Aware Optimal Scheduling of Code Clone Refactoring: A Constraint Programming Approach	Yes	[563]	2011	ICPC 2011	4	17	18	616	802
ZibranR11a	ZibranR11a	Minhaz F. Zibran, Chanchal K. Roy	A Constraint Programming Approach to Conflict-Aware Optimal Scheduling of Prioritized Code Clone Refactoring	Yes	[564]	2011	SCAM 2011	10	26	27	617	803
BertholdHLS10	T. Berthold, S. Heinz, Marco E. Lübbecke, Rolf H. Möhring, J. Schulz	A Constraint Integer Programming Approach for Resource-Constrained Project Scheduling	Yes	[82]	2010	CPAIOR 2010	5	28	10	353	804	
BertholdHLS10												
CobanH10	CobanH10	E. Coban, John N. Hooker	Single-Facility Scheduling over Long Time Horizons by Logic-Based Benders Decomposition	Yes	[132]	2010	CPAIOR 2010	5	9	9	383	805
Davenport10	Andrew J. Davenport	Integrated Maintenance Scheduling for Semiconductor Manufacturing	Yes	[141]	2010	CPAIOR 2010	5	9	2	388	806	
Davenport10												
GrimesH10	GrimesH10	D. Grimes, E. Hebrard	Job Shop Scheduling with Setup Times and Maximal Time-Lags: A Simple Constraint Programming Approach	Yes	[212]	2010	CPAIOR 2010	15	13	20	430	807
LombardiM10	M. Lombardi, M. Milano	Constraint Based Scheduling to Deal with Uncertain Durations and Self-Timed Execution	Yes	[338]	2010	CP 2010	15	1	11	502	808	
LombardiM10												
MakMS10	MakMS10	K. Mak, J. Ma, W. Su	A constraint programming approach for production scheduling of multi-period virtual cellular manufacturing systems	Yes	[352]	2010	ICNC 2010	5	1	3	508	809

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SchuttW10 SchuttW10	A. Schutt, A. Wolf	A New $O(n^2 \log n)$ Not-First/Not-Last Pruning Algorithm for Cumulative Resource Constraints	Yes	[451]	2010	CP 2010	15	13	14	556	810
SunLYL10 SunLYL10	Z. Sun, H. Li, M. Yao, N. Li	Scheduling Optimization Techniques for FlexRay Using Constraint-Programming	Yes	[473]	2010	GreenCom 2010	6	4	8	567	811
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	316	812
AronssonBK09 AronssonBK09	M. Aronsson, M. Bohlin, P. Kreuger	MILP formulations of cumulative constraints for railway scheduling - A comparative study	Yes	[22]	2009	ATMOS 2009	13	0	0	325	813
Baptiste09 Baptiste09	P. Baptiste	Constraint-Based Schedulers, Do They Really Work?	Yes	[36]	2009	CP 2009	1	0	0	332	814
GrimesHM09 GrimesHM09	D. Grimes, E. Hebrard, A. Malapert	Closing the Open Shop: Contradicting Conventional Wisdom	Yes	[215]	2009	CP 2009	9	15	12	432	815
Laborie09 Laborie09	P. Laborie	IBM ILOG CP Optimizer for Detailed Scheduling Illustrated on Three Problems	Yes	[309]	2009	CPAIOR 2009	15	53	2	483	816
LombardiM09 LombardiM09	M. Lombardi, M. Milano	A Precedence Constraint Posting Approach for the RCPSP with Time Lags and Variable Durations	Yes	[336]	2009	CP 2009	15	7	12	501	817
MonetteDH09 MonetteDH09	J. Monette, Y. Deville, Pascal Van Hentenryck	Just-In-Time Scheduling with Constraint Programming	Yes	[369]	2009	ICAPS 2009	8	0	0	516	818
SchuttFSW09 SchuttFSW09	A. Schutt, T. Feydy, Peter J. Stuckey, M. Wallace	Why Cumulative Decomposition Is Not as Bad as It Sounds	Yes	[445]	2009	CP 2009	16	34	11	554	819
ThiruvadyBME09 ThiruvadyBME09	Dhananjay R. Thiruvady, C. Blum, B. Meyer, Andreas T. Ernst	Hybridizing Beam-ACO with Constraint Programming for Single Machine Job Scheduling	Yes	[489]	2009	HM 2009	15	13	12	576	820
Vilim09 Vilim09	P. Vilím	Edge Finding Filtering Algorithm for Discrete Cumulative Resources in $O(kn \log n)$	Yes	[519]	2009	CP 2009	15	25	4	593	821
Vilim09a Vilim09a	P. Vilím	Max Energy Filtering Algorithm for Discrete Cumulative Resources	Yes	[520]	2009	CPAIOR 2009	15	13	4	594	822
BarlattCG08 BarlattCG08	A. Barlatt, Amy Mainville Cohn, Oleg Yu. Gusikhin	A Hybrid Approach for Solving Shift-Selection and Task-Sequencing Problems	Yes	[43]	2008	CPAIOR 2008	5	1	9	335	823
BeldiceanuCP08 BeldiceanuCP08	N. Beldiceanu, M. Carlsson, E. Poder	New Filtering for the cumulative Constraint in the Context of Non-Overlapping Rectangles	Yes	[72]	2008	CPAIOR 2008	15	8	9	348	824
DoomsH08 DoomsH08	G. Dooms, Pascal Van Hentenryck	Gap Reduction Techniques for Online Stochastic Project Scheduling	Yes	[159]	2008	CPAIOR 2008	16	1	2	396	825
HentenryckM08 HentenryckM08	Pascal Van Hentenryck, L. Michel	The Steel Mill Slab Design Problem Revisited	Yes	[246]	2008	CPAIOR 2008	5	13	3	447	826
LauLN08 LauLN08	Hoong Chuin Lau, Kong Wei Lye, Viet Bang Nguyen	A Combinatorial Auction Framework for Solving Decentralized Scheduling Problems (Extended Abstract)	Yes	[316]	2008	CPAIOR 2008	5	0	4	487	827
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	[374]	2008	CP 2008	16	11	10	518	828
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	[373]	2008	CSE 2008	8	5	14	519	829
PoderB08 PoderB08	E. Poder, N. Beldiceanu	Filtering for a Continuous Multi-Resources cumulative Constraint with Resource Consumption and Production	Yes	[414]	2008	ICAPS 2008	8	0	0	538	830
WatsonB08 WatsonB08	J. Watson, J. Christopher Beck	A Hybrid Constraint Programming / Local Search Approach to the Job-Shop Scheduling Problem	Yes	[534]	2008	CPAIOR 2008	15	14	17	600	831
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	[509]	2007	CPAIOR 2007	15	2	8	317	832
BeldiceanuP07 BeldiceanuP07	N. Beldiceanu, E. Poder	A Continuous Multi-resources <i>cumulative</i> Constraint with Positive-Negative Resource Consumption-Production	Yes	[73]	2007	CPAIOR 2007	15	4	7	349	833

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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	[142]	2007	CP 2007	13	1	2	389	834
GarganiR07 GarganiR07	A. Gargani, P. Refalo	An Efficient Model and Strategy for the Steel Mill Slab Design Problem	Yes	[186]	2007	CP 2007	13	17	5	412	835
HoeveGSL07 HoeveGSL07	Willem Jan van Hoeve, Carla P. Gomes, B. Selman, M. Lombardi	Optimal Multi-Agent Scheduling with Constraint Programming	Yes	[512]	2007	AAAI 2007	6	0	0	451	836
KeriK07 KeriK07	A. Kéri, T. Kis	Computing Tight Time Windows for RCPSPWET with the Primal-Dual Method	Yes	[282]	2007	CPAIOR 2007	14	1	13	467	837
KovacsB07 KovacsB07	A. Kovács, J. Christopher Beck	A Global Constraint for Total Weighted Completion Time	Yes	[293]	2007	CPAIOR 2007	15	2	12	474	838
KrogtLPHJ07 KrogtLPHJ07	Roman van der Krogt, J. Little, K. Pulliam, S. Hanhilaammi, Y. Jin	Scheduling for Cellular Manufacturing	Yes	[511]	2007	CP 2007	13	2	3	480	839
Limtanyakul07 Limtanyakul07	K. Limtanyakul	Scheduling of Tests on Vehicle Prototypes Using Constraint and Integer Programming	Yes	[327]	2007	GOR 2007	6	2	3	494	840
MonetteDD07 MonetteDD07	J. Monette, Y. Deville, P. Dupont	A Position-Based Propagator for the Open-Shop Problem	Yes	[368]	2007	CPAIOR 2007	14	0	12	515	841
NethercoteSBBDT07 NethercoteSBBDT07	N. Nethercote, Peter J. Stuckey, R. Becket, S. Brand, Gregory J. Duck, G. Tack	MiniZinc: Towards a Standard CP Modelling Language	Yes	[385]	2007	CP 2007	15	344	5	525	842
RossiTHP07 RossiTHP07	R. Rossi, A. Tarim, B. Hnich, Steven D. Prestwich	Replenishment Planning for Stochastic Inventory Systems with Shortage Cost	Yes	[434]	2007	CPAIOR 2007	15	6	10	549	843
Beck06 Beck06	J. Christopher Beck	An Empirical Study of Multi-Point Constructive Search for Constraint-Based Scheduling Allocation, Scheduling and Voltage Scaling on Energy Aware MPSoCs	Yes	[54]	2006	ICAPS 2006	10	0	0	341	844
BeniniBGM06 BeniniBGM06	L. Benini, D. Bertozzi, A. Guerri, M. Milano	Constraint Programming for Distributed Planning and Scheduling	Yes	[79]	2006	CPAIOR 2006	15	18	10	352	845
GomesHS06 GomesHS06	Carla P. Gomes, Willem Jan van Hoeve, B. Selman	When Constraint Programming and Local Search Solve the Scheduling Problem of Electricité de France Nuclear Power Plant Outages	Yes	[211]	2006	AAAI 2006	2	0	0	429	846
KhemmoudjPB06 KhemmoudjPB06	Mohand Ou Idir Khemmoudj, M. Porcheron, H. Bennaceur	Progressive Solutions: A Simple but Efficient Dominance Rule for Practical RCPSP	Yes	[284]	2006	CP 2006	13	8	8	468	847
KovacsV06 KovacsV06	A. Kovács, J. Váncza	LP-TPOP: Integrating Planning and Scheduling Through Constraint Programming	Yes	[299]	2006	CPAIOR 2006	13	2	7	478	848
LiuJ06 LiuJ06	Y. Liu, Y. Jiang	Using Constraint Programming to Achieve Optimal Prefetch Scheduling for Dependent Tasks on Run-Time Reconfigurable Devices	Yes	[332]	2006	PRICAI 2006	5	0	0	497	849
QuSN06 QuSN06	Y. Qu, J. Soininen, J. Nurmi	Distributed Constraints for Large-Scale Scheduling Problems	Yes	[427]	2006	SoC 2006	4	2	5	544	850
AbrilSB05 AbrilSB05	M. Abril, Miguel A. Salido, F. Barber	Inter-distance Constraint: An Extension of the All-Different Constraint for Scheduling Equal Length Jobs	Yes	[4]	2005	CP 2005	1	0	0	315	851
ArtiouchineB05 ArtiouchineB05	K. Artiouchine, P. Baptiste	Proactive Algorithms for Scheduling with Probabilistic Durations	Yes	[26]	2005	CP 2005	15	3	11	327	852
BeckW05 BeckW05	J. Christopher Beck, N. Wilson	Methods to Learn Abstract Scheduling Models	Yes	[63]	2005	IJCAI 2005	6	0	0	345	853
CarchraeBF05 CarchraeBF05	T. Carchrae, J. Christopher Beck, Eugene C. Freuder	A Hybrid Algorithm for a Class of Resource Constrained Scheduling Problems	Yes	[118]	2005	CP 2005	1	0	0	374	854
ChuX05 ChuX05	Y. Chu, Q. Xia	Extending Systematic Local Search for Job Shop Scheduling Problems	Yes	[129]	2005	CPAIOR 2005	15	13	13	380	855
DilkinaDH05 DilkinaDH05	B. Dilkina, L. Duan, William S. Havens	Interval Analysis in Scheduling	Yes	[157]	2005	CP 2005	5	2	7	395	856
FortinZDF05 FortinZDF05	J. Fortin, P. Zielinski, D. Dubois, H. Fargier	Mixed Discrete and Continuous Algorithms for Scheduling Airborne Astronomy Observations	Yes	[179]	2005	CP 2005	15	13	11	406	857
FrankK05 FrankK05	J. Frank, E. Kürklü		Yes	[180]	2005	CPAIOR 2005	18	4	4	407	858

Table 2: Works from bibtex (Total 313)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	Pages	Nr Cites	Nr Refs	b	c
Geske05 Geske05	U. Geske	Railway Scheduling with Declarative Constraint Programming	Yes	[200]	2005	INAP 2005	18	2	3	422	859
GodardLN05 GodardLN05	D. Godard, P. Laborie, W. Nuijten	Randomized Large Neighborhood Search for Cumulative Scheduling	Yes	[203]	2005	ICAPS 2005	9	0	0	425	860
HebrardTW05 HebrardTW05	E. Hebrard, P. Tyler, T. Walsh	Computing Super-Schedules	Yes	[234]	2005	CP 2005	1	0	3	441	861
Hooker05a Hooker05a	John N. Hooker	Planning and Scheduling to Minimize Tardiness	Yes	[253]	2005	CP 2005	14	30	10	453	862
KovacsEKV05 KovacsEKV05	A. Kovács, P. Egri, T. Kis, J. Váncza	Proterv-II: An Integrated Production Planning and Scheduling System	Yes	[296]	2005	CP 2005	1	2	3	475	863
MoffittPP05 MoffittPP05	Michael D. Moffitt, B. Peintner, Martha E. Pollack	Augmenting Disjunctive Temporal Problems with Finite-Domain Constraints	Yes	[366]	2005	AAAI 2005	6	0	0	514	864
QuirogaZH05 QuirogaZH05	O. Quiroga, L. Zeballos, Gabriela P. Henning	A Constraint Programming Approach to Tool Allocation and Resource Scheduling in FMS	Yes	[428]	2005	ICRA 2005	6	2	7	545	865
SchuttWS05 SchuttWS05	A. Schutt, A. Wolf, G. Schrader	Not-First and Not-Last Detection for Cumulative Scheduling in $O(n^3 \log n)$	Yes	[452]	2005	INAP 2005	15	6	4	557	866
Vilim05 Vilim05	P. Vilím	Computing Explanations for the Unary Resource Constraint	Yes	[518]	2005	CPAIOR 2005	14	5	8	592	867
WolfS05 WolfS05	A. Wolf, G. Schrader	$O(n \log n)$ Overload Checking for the Cumulative Constraint and Its Application	Yes	[539]	2005	INAP 2005	14	6	6	604	868
WuBB05 WuBB05	Christine Wei Wu, Kenneth N. Brown, J. Christopher Beck	Scheduling with Uncertain Start Dates	Yes	[541]	2005	CP 2005	1	0	0	606	869
ArtiguesBF04 ArtiguesBF04	C. Artigues, S. Belmokhtar, D. Feillet	A New Exact Solution Algorithm for the Job Shop Problem with Sequence-Dependent Setup Times	Yes	[23]	2004	CPAIOR 2004	13	16	9	326	870
BeckW04 BeckW04	J. Christopher Beck, N. Wilson	Job Shop Scheduling with Probabilistic Durations	Yes	[62]	2004	ECAI 2004	5	0	0	344	871
HentenryckM04 HentenryckM04	Pascal Van Hentenryck, L. Michel	Scheduling Abstractions for Local Search	Yes	[245]	2004	CPAIOR 2004	16	12	14	446	872
Hooker04 Hooker04	John N. Hooker	A Hybrid Method for Planning and Scheduling	Yes	[251]	2004	CP 2004	12	39	9	452	873
KovacsV04 KovacsV04	A. Kovács, J. Váncza	Completable Partial Solutions in Constraint Programming and Constraint-Based Scheduling	Yes	[298]	2004	CP 2004	15	3	12	477	874
LimRX04 LimRX04	A. Lim, B. Rodrigues, Z. Xu	Solving the Crane Scheduling Problem Using Intelligent Search Schemes	Yes	[324]	2004	CP 2004	5	5	6	493	875
MaraveliasG04 MaraveliasG04	Christos T. Maravelias, Ignacio E. Grossmann	Using MILP and CP for the Scheduling of Batch Chemical Processes	Yes	[357]	2004	CPAIOR 2004	20	15	15	510	876
Sadykov04 Sadykov04	R. Sadykov	A Hybrid Branch-And-Cut Algorithm for the One-Machine Scheduling Problem	Yes	[437]	2004	CPAIOR 2004	7	11	7	550	877
Vilim04 Vilim04	P. Vilím	$O(n \log n)$ Filtering Algorithms for Unary Resource Constraint	Yes	[517]	2004	CPAIOR 2004	13	22	5	591	878
VilimBC04 VilimBC04	P. Vilím, R. Barták, O. Cepek	Unary Resource Constraint with Optional Activities	Yes	[522]	2004	CP 2004	15	13	4	596	879
VillaverdeP04 VillaverdeP04	K. Villaverde, E. Pontelli	An Investigation of Scheduling in Distributed Constraint Logic Programming	No	[525]	2004	ISCA 2004	6	0	0	No	880
WolinskiKG04 WolinskiKG04	C. Wolinski, K. Kuchcinski, Maya B. Gokhale	A Constraints Programming Approach to Communication Scheduling on SoPC Architectures	Yes	[540]	2004	DSD 2004	8	0	9	605	881
BeckPS03 BeckPS03	J. Christopher Beck, P. Prosser, E. Selensky	Vehicle Routing and Job Shop Scheduling: What's the Difference?	Yes	[60]	2003	ICAPS 2003	10	0	0	343	882
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	[139]	2003	CP 2003	5	21	3	387	883
Kumar03 Kumar03	T. K. Satish Kumar	Incremental Computation of Resource-Envelopes in Producer-Consumer Models	Yes	[306]	2003	CP 2003	15	4	2	482	884
OddiPCC03 OddiPCC03	A. Oddi, N. Policella, A. Cesta, G. Cortellessa	Generating High Quality Schedules for a Spacecraft Memory Downlink Problem	Yes	[397]	2003	CP 2003	15	8	6	529	885
ValleMGT03 ValleMGT03	Carmelo Del Valle, Antonio A. Márquez, Rafael M. Gasca, M. Toro	On Selecting and Scheduling Assembly Plans Using Constraint Programming	Yes	[508]	2003	KES 2003	8	7	7	586	886
Vilim03 Vilim03	P. Vilím	Computing Explanations for Global Scheduling Constraints	Yes	[516]	2003	CP 2003	1	1	1	590	887



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Wolf03 Wolf03	A. Wolf	Pruning while Sweeping over Task Intervals	Yes	[538]	2003	CP 2003	15	11	7	603	888
Bartak02 Bartak02	R. Barták	Visopt ShopFloor: On the Edge of Planning and Scheduling	Yes	[45]	2002	CP 2002	16	6	4	336	889
Bartak02a Bartak02a	R. Barták	Visopt ShopFloor: Going Beyond Traditional Scheduling	Yes	[44]	2002	ERCIM/CologNet 2002	15	1	9	337	890
BeldiceanuC02 BeldiceanuC02	N. Beldiceanu, M. Carlsson	A New Multi-resource cumulatives Constraint with Negative Heights	Yes	[70]	2002	CP 2002	17	33	9	347	891
ElkhyariGJ02 ElkhyariGJ02	A. Elkhyari, C. Guéret, N. Jussien	Conflict-Based Repair Techniques for Solving Dynamic Scheduling Problems	Yes	[164]	2002	CP 2002	6	1	6	400	892
ElkhyariGJ02a ElkhyariGJ02a	A. Elkhyari, C. Guéret, N. Jussien	Solving Dynamic Resource Constraint Project Scheduling Problems Using New Constraint Programming Tools	Yes	[165]	2002	PATAT 2002	24	9	20	401	893
HookerY02 HookerY02	John N. Hooker, H. Yan	A Relaxation of the Cumulative Constraint	Yes	[260]	2002	CP 2002	5	8	7	455	894
KamarainenS02 KamarainenS02	O. Kamarainen, Hani El Sakkout	Local Probing Applied to Scheduling	Yes	[273]	2002	CP 2002	17	9	13	462	895
Muscettola02 Muscettola02	N. Muscettola	Computing the Envelope for Stepwise-Constant Resource Allocations	Yes	[378]	2002	CP 2002	16	14	4	522	896
Vilim02 Vilim02	P. Vilím	Batch Processing with Sequence Dependent Setup Times	Yes	[515]	2002	CP 2002	1	6	1	589	897
ZhuS02 ZhuS02	Kenny Qili Zhu, Andrew E. Santosa	A Meeting Scheduling System Based on Open Constraint Programming	Yes	[562]	2002	CAiSE 2002	5	0	5	615	898
Thorsteinsson01 Thorsteinsson01	Erlendur S. Thorsteinsson	Branch-and-Check: A Hybrid Framework Integrating Mixed Integer Programming and Constraint Logic Programming	Yes	[491]	2001	CP 2001	15	67	12	577	899
VanczaM01 VanczaM01	J. Váncza, A. Márkus	A Constraint Engine for Manufacturing Process Planning	Yes	[513]	2001	CP 2001	15	2	19	587	900
VerfaillieL01 VerfaillieL01	G. Verfaillie, M. Lemaître	Selecting and Scheduling Observations for Agile Satellites: Some Lessons from the Constraint Reasoning Community Point of View	Yes	[514]	2001	CP 2001	15	11	6	588	901
AngelsmarkJ00 AngelsmarkJ00	O. Angelsmark, P. Jonsson	Some Observations on Durations, Scheduling and Allen's Algebra	Yes	[13]	2000	CP 2000	5	1	9	319	902
FocacciLN00 FocacciLN00	F. Focacci, P. Laborie, W. Nuijten	Solving Scheduling Problems with Setup Times and Alternative Resources	Yes	[177]	2000	AIPS 2000	10	0	0	404	903
KorbaaYG99 KorbaaYG99	O. Korbaa, P. Yim, J. Gentina	Solving transient scheduling problem for cyclic production using timed Petri nets and constraint programming	Yes	[290]	1999	ECC 1999	8	1	0	472	904
Simonis99 Simonis99	H. Simonis	Building Industrial Applications with Constraint Programming	Yes	[465]	1999	CCL'99 1999	39	5	18	564	905
CestaOS98 CestaOS98	A. Cesta, A. Oddi, Stephen F. Smith	Scheduling Multi-capacitated Resources Under Complex Temporal Constraints	Yes	[126]	1998	CP 1998	1	5	0	377	906
FrostD98 FrostD98	D. Frost, R. Dechter	Optimizing with Constraints: A Case Study in Scheduling Maintenance of Electric Power Units	Yes	[184]	1998	CP 1998	1	10	2	410	907
GruianK98 GruianK98	F. Gruian, K. Kuchcinski	Operation Binding and Scheduling for Low Power Using Constraint Logic Programming	Yes	[219]	1998	EUROMICRO 1998	8	5	10	435	908
PembertonG98 PembertonG98	Joseph C. Pemberton, Flavius Galiber III	A constraint-based approach to satellite scheduling	Yes	[409]	1998	DIMACS 1998	14	26	0	535	909
RodosekW98 RodosekW98	R. Rodosek, M. Wallace	A Generic Model and Hybrid Algorithm for Hoist Scheduling Problems	Yes	[431]	1998	CP 1998	15	19	10	548	910
Shaw98 Shaw98	P. Shaw	Using Constraint Programming and Local Search Methods to Solve Vehicle Routing Problems	Yes	[455]	1998	CP 1998	15	630	11	559	911
BaptisteP97 BaptisteP97	P. Baptiste, Claude Le Pape	Constraint Propagation and Decomposition Techniques for Highly Disjunctive and Highly Cumulative Project Scheduling Problems	Yes	[39]	1997	CP 1997	15	8	10	334	912
BeckDF97 BeckDF97	J. Christopher Beck, Andrew J. Davenport, Mark S. Fox	Five Pitfalls of Empirical Scheduling Research	Yes	[56]	1997	CP 1997	15	3	12	342	913

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BoucherBVBL97 BoucherBVBL97	E. Boucher, A. Bachelu, C. Varnier, P. Baptiste, B. Legeard	Multi-criteria Comparison Between Algorithmic, Constraint Logic and Specific Constraint Programming on a Real Scheduling Problem	No	[105]	1997	PACT 1997	18	0	0	No	914
Caseau97 Caseau97	Y. Caseau	Using Constraint Propagation for Complex Scheduling Problems: Managing Size, Complex Resources and Travel	Yes	[122]	1997	CP 1997	4	0	0	375	915
PapeB97 PapeB97	Claude Le Pape, P. Baptiste	A Constraint Programming Library for Preemptive and Non-Preemptive Scheduling	No	[406]	1997	PACT 1997	20	0	0	No	916
BrusoniCLMMT96 BrusoniCLMMT96	V. Brusoni, L. Console, E. Lamma, P. Mello, M. Milano, P. Terenziani	Resource-Based vs. Task-Based Approaches for Scheduling Problems	Yes	[112]	1996	ISMIS 1996	10	1	9	370	917
Colombani96 Colombani96	Y. Colombani	Constraint Programming: an Efficient and Practical Approach to Solving the Job-Shop Problem	Yes	[137]	1996	CP 1996	15	4	5	386	918
Zhou96 Zhou96	J. Zhou	A Constraint Program for Solving the Job-Shop Problem	Yes	[559]	1996	CP 1996	15	10	7	613	919
Goltz95 Goltz95	H. Goltz	Reducing Domains for Search in CLP(FD) and Its Application to Job-Shop Scheduling	Yes	[210]	1995	CP 1995	14	7	7	428	920
Puget95 Puget95	J. Puget	Applications of Constraint Programming	Yes	[424]	1995	CP 1995	4	6	2	543	921
Simonis95 Simonis95	H. Simonis	The CHIP System and Its Applications	Yes	[464]	1995	CP 1995	4	7	3	562	922
Simonis95a Simonis95a	H. Simonis	Application Development with the CHIP System	Yes	[463]	1995	CONTESSA 1995	21	1	12	563	923
SimonisC95 SimonisC95	H. Simonis, T. Cornelissens	Modelling Producer/Consumer Constraints	Yes	[468]	1995	CP 1995	14	17	8	565	924
Touraivane95 Touraivane95	Touraivane	Constraint Programming and Industrial Applications	Yes	[497]	1995	CP 1995	3	2	1	580	925
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	[269]	1994	ILPS 1994	1	0	0	No	926
NuijtenA94 NuijtenA94	W. P. M. Nuijten, Emile H. L. Aarts	Constraint Satisfaction for Multiple Capacitated Job Shop Scheduling	Yes	[395]	1994	ECAI 1994	5	0	0	528	927
Wallace94 Wallace94	M. Wallace	Applying Constraints for Scheduling	No	[527]	1994	Constraint Programming 1994	19	0	0	No	928
BaptisteLV92 BaptisteLV92	P. Baptiste, B. Legeard, C. Varnier	Hoist scheduling problem: an approach based on constraint logic programming	Yes	[42]	1992	ICRA 1992	6	13	6	333	929
ErtlK91 ErtlK91	M. Anton Ertl, A. Krall	Optimal Instruction Scheduling using Constraint Logic Programming	Yes	[166]	1991	PLILP 1991	12	14	14	402	930

## 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, activity, flow-shop, order, transportation, machine, make-span, resource		cycle, alwaysIn, cumulative, noOverlap, endBeforeStart		CPO, Cplex	steel cable	mining industry	real-world		1	618
AbrilSB05 [4]	1	distributed, scheduling, multi-agent, order					railway				234	851
Acuna-AgostMFG09 [5]	2	re-scheduling, order, scheduling, transportation					railway		Roadef		195	812
AkkerDH07 [509]	15	resource, due-date, scheduling, make-span, precedence, order, cmax, completion-time, machine, job, lateness, release-date, sequence dependent setup, preempt	RCPSP, single machine, parallel machine	cumulative		Cplex					215	832
AlesioNBG14 [156]	18	preempt, job-shop, distributed, scheduling, completion-time, make-span, resource, open-shop, order, job, activity, task		alldifferent		OPL, Cplex	automotive		benchmark		133	750
AngelsmarkJ00 [13]	5	resource, job, order, scheduling, task, job-shop									285	902
AntuoriHHEN20 [16]	16	release-date, resource, job, order, due-date, completion-time, tardiness, scheduling, machine, task, job-shop, precedence		alldifferent, circuit, cycle		Choco Solver	torpedo		random instance, generated instance, gitlab, benchmark, industrial instance		44	661
AntuoriHHEN21 [17]	16	release-date, resource, transportation, job, order, due-date, tardiness, scheduling, machine, task, job-shop, precedence		cycle	C++, Java	Choco Solver, Gecode	automotive, car manufacturing, drone	automotive industry	gitlab, supplementary material		32	649
ArbaouiY18 [19]	10	setup-time, order, machine, make-span, sequence dependent setup, completion-time, cmax, resource, job, scheduling	single machine, parallel machine	alternative constraint, noOverlap, cumulative	C++	OZ, Cplex			benchmark		70	687
ArmstrongGOS21 [20]	18	machine, transportation, flow-shop, job-shop, scheduling, job, make-span, order, completion-time, sequence dependent setup, preempt, resource, setup-time, precedence, task, cmax	HFF	alternative constraint, cycle, table constraint, circuit, diffn, bin-packing, cumulative	Java, Prolog	OZ, MiniZinc, CPO, Chuffed, Gecode, SICStus, Cplex, CHIP	robot	packaging industry	instance generator, industry partner, zenodo, supplementary material, real-world, industrial partner, benchmark	energetic reasoning	33	650
ArmstrongGOS22 [21]	13	machine, transportation, flow-shop, scheduling, job, re-scheduling, make-span, order, completion-time, resource, task, cmax	HFF, parallel machine	noOverlap, cumulative	Prolog	OZ, OPL, SICStus			real-world, benchmark		16	633
AronssonBK09 [22]	13	job-shop, transportation, order, job, task		cumulative	Prolog	Cplex, CHIP	railway		real-world, real-life	sweep	196	813

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
ArtiguesBF04 [23]	13	job, batch process, cmax, make-span, release-date, resource, precedence, completion-time, sequence dependent setup, job-shop, setup-time, preempt, scheduling, order, machine		disjunctive	C++	Ilog Scheduler, Ilog Solver			benchmark	edge-finding	253	870
ArtiouchineB05 [26]	15	re-scheduling, release-date, scheduling, order, completion-time, job, resource, make-span, activity, preempt, open-shop, machine, precedence, job-shop	parallel machine, single machine	disjunctive, cumulative		Ilog Scheduler	aircraft		generated instance, random instance	not-last, edge-finding, not-first	235	852
Astrand0F21 [28]	18	resource, open-shop, task, machine, precedence, job-shop, make-span, order, job, activity, scheduling		cycle, disjunctive		Gecode	farming, drone, forestry, robot, satellite, agriculture	potash industry, mining industry, mineral industry	benchmark, real-world, real-life, generated instance		35	652
AstrandJZ18 [29]	9	resource, task, machine, make-span, order, activity, scheduling	single machine	disjunctive, cumulative, cycle		Gecode	hoist, robot	potash industry		time-tabling	71	688
BadicaBIL19 [32]	11	completion-time, resource, order, activity, machine, multi-agent, distributed, make-span, scheduling		cycle		ECLiPSe, Gecode			github		54	671
BajestaniB11 [33]	8	resource, scheduling, machine, inventory, transportation, due-date, order, tardiness, job, make-span, re-scheduling	JSSP, single machine	cumulative, cycle, circuit		Ilog Solver, Cplex	railway, aircraft				173	790
Baptiste09 [36]	1	scheduling									197	814
BaptisteLV92 [42]	6										312	929
BaptisteP97 [39]	15	resource, task, preempt, precedence, release-date, flow-shop, job-shop, scheduling, re-scheduling, make-span, order, job, activity, due-date	RCPSP	disjunctive, cumulative	C++	Claire, CHIP			benchmark	edge-finding, edge-finder	295	912
BarlattCG08 [43]	5	scheduling, resource, setup-time, job, task, machine, flow-shop, job-shop, transportation					automotive, pipeline		real-world		206	823
Bartak02 [45]	16	make-span, scheduling, machine, continuous-process, job, resource, activity, lateness, job-shop, task, precedence, earliness, order		disjunctive, cumulative	Prolog	SICStus, OZ	dairies		real-life	edge-finding, time-tabling	272	889
Bartak02a [44]	15	activity, re-scheduling, earliness, job-shop, resource, scheduling, make-span, task, precedence, order, machine, tardiness, job		cumulative, disjunctive		Ilog Scheduler	dairies		benchmark, real-life	time-tabling, edge-finding	273	890
BartakV15 [50]	12	job-shop, resource, scheduling, make-span, precedence, order, machine, job, lateness, activity, re-scheduling, setup-time							real-world, real-life	sweep	115	732

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BartoliniBBLM14 [51]	16	resource, tardiness, task, job, activity, make-span, machine, scheduling		alternative constraint, cumulative			super-computer				134	751
BarzegaranZP20 [52]	9	re-scheduling, resource, distributed, machine, task, scheduling, order			Java	OR-Tools	automotive, robot				45	662
Beck06 [54]	10	due-date, flow-shop, order, scheduling, make-span, machine, resource, job, job-shop, tardiness				Ilog Scheduler			benchmark		227	844
BeckDF97 [56]	15	precedence, release-date, due-date, re-scheduling, make-span, order, scheduling, resource, inventory, machine, job, job-shop, task, activity	single machine	cycle, cumulative			robot		benchmark, real-world	edge-finding	296	913
BeckPS03 [60]	10	job, job-shop, task, activity, precedence, release-date, due-date, re-scheduling, make-span, transportation, earliness, order, tardiness, scheduling, flow-time, resource, completion-time, machine, setup-time	RCPSP			Ilog Scheduler	robot		benchmark, real-world		265	882
BeckW04 [62]	5	job-shop, machine, job, activity, order, distributed, make-span, scheduling, flow-shop, resource	single machine			Ilog Scheduler				edge-finding, time-tabling	254	871
BeckW05 [63]	6	job-shop, job, activity, order, make-span, scheduling, flow-shop, resource				Ilog Scheduler				edge-finder	236	853
BehrensLM19 [67]	7	order, setup-time, resource, task, machine, distributed, multi-agent, scheduling, make-span			Python	OR-Tools, MiniZinc, OZ	robot		real-world, github		55	672
BeldiceanuC02 [70]	17	order, producer/consumer, scheduling, machine, task, resource, activity	single machine	cumulative	Prolog	SICStus, CHIP, OZ	crew-scheduling		real-life, random instance, benchmark	sweep	274	891
BeldiceanuCP08 [72]	15	resource, task, scheduling, order		geost, cumulative, disjunctive	Prolog	SICStus, CHIP, OPL	rectangle-packing, perfect-square		benchmark	edge-finding, sweep	207	824
BeldiceanuP07 [73]	15	preempt, scheduling, release-date, task, resource, order, due-date		cumulative, disjunctive						sweep	216	833
BenderWS21 [75]	16	preempt, activity, task, order, machine, make-span, job, distributed, resource, setup-time, scheduling	RCPSP	noOverlap	Python		agriculture				36	653
BenediktSMVH18 [78]	10	job-shop, scheduling, order, job, preempt, resource, machine	single machine, parallel machine	noOverlap		OZ, Gurobi	energy-price		github, random instance, generated instance		72	689
BeniniBGM06 [79]	15	activity, task, distributed, tardiness, precedence, scheduling, make-span, resource, order, setup-time		cycle, cumulative		ECLiPSe, Cplex, Ilog Solver, OZ	automotive, pipeline		real-life		228	845

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

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
BertholdHLM10 [82]	5	precedence, scheduling, order, completion-time, job, resource, preempt	psplib, RCPSP	disjunctive, cumulative		Cplex, Z3					187	804
BessiereHMQW14 [83]	16	scheduling, order, job, resource, setup-time, task, machine		alldifferent, cycle		Choco Solver	satellite	textile industry	benchmark, real-life		135	752
BillautHL12 [85]	15	tardiness, precedence, release-date, flow-shop, job-shop, make-span, order, setup-time, job, scheduling, completion-time, due-date, resource, open-shop, machine, cmax	single machine	cycle		Mistral, Cplex			random instance		160	777
Bit-Monnot23 [86]	8	precedence, scheduling, machine, distributed, order, job, make-span, open-shop, task, lazy clause generation, job-shop, resource, activity	Open Shop Scheduling Problem, OSP	cycle, cumulative, disjunctive		OR-Tools, MiniZinc, CPO, Mistral			real-world, github, benchmark		2	619
BofillCSV17 [92]	9	machine, preempt, cmax, lazy clause generation, precedence, scheduling, make-span, resource, order, activity	RCPSP, psplib	cumulative		Z3			benchmark	energetic reasoning	85	702
BofillEGPSV14 [93]	16	order, scheduling, lazy clause generation, machine, task				Cplex, Gecode, MiniZinc			industrial instance	in- time-tabling	136	753
BofillGSV15 [94]	9	machine, scheduling, order				Cplex			industrial instance	in- time-tabling	116	733
BogaerdtW19 [510]	16	scheduling, completion-time, order, setup-time, job, machine, job-shop, tardiness, precedence	single machine, parallel machine	noOverlap	C	OPL, Cplex	railway		benchmark		56	673
BonfiettiLBM11 [96]	15	scheduling, order, job, resource, make-span, activity, machine, precedence, task, job-shop	RCPSP	cumulative, cycle		Ilog Solver	hoist, robot		generated instance, industrial instance, benchmark		174	791
BonfiettiLBM12 [97]	16	scheduling, order, job, resource, make-span, activity, distributed, machine, precedence, job-shop	RCPSP	cumulative, cycle		Ilog Solver	hoist, robot		benchmark	time-tabling	161	778
BonfiettiLM13 [99]	5	make-span, job-shop, precedence, resource, activity, job, order, scheduling	RCPSP	cumulative, cycle		Cplex					148	765
BonfiettiLM14 [100]	16	make-span, machine, task, job-shop, precedence, open-shop, resource, activity, job, distributed, order, scheduling	RCPSP, psplib	cumulative					real-world, benchmark		137	754
BonfiettiM12 [101]	3	job, task, precedence, job-shop, resource, activity, scheduling, machine	RCPSP	cumulative			hoist		industrial instance		162	779
BonfiettiZLM16 [102]	17	resource, make-span, activity, precedence, scheduling, order	RCPSP	cumulative, cycle, disjunctive		OR-Tools	automotive	automotive industry, control system industry	generated instance, github, industrial instance, benchmark, real-world	edge-finder, sweep	98	715

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
BoothNB16 [103]	17	distributed, resource, scheduling, task, machine, precedence, order, activity, re-scheduling		disjunctive, cumulative, noOverlap	C++	Cplex	robot, medical		real-world		99	716
BoudreaultSLQ22 [106]	16	lazy clause generation, order, activity, make-span, machine, scheduling, cmax, transportation, distributed, resource, preempt, precedence, task	RCPSP, psplib	disjunctive, cumulative		Chuffed, MiniZinc, OR-Tools, OPL	offshore	ship repair industry	benchmark, generated instance, supplementary material, gitlab, real-life, industrial partner, github, real-world	not-last, energetic reasoning, edge-finding, not-first	17	634
BridiLBBM16 [110]	2	resource, task, machine, distributed, make-span, order, job, activity, scheduling									100	717
BrusoniCLMMT96 [112]	10	resource, activity, precedence, task, distributed, due-date, job-shop, scheduling, order, job		disjunctive	Prolog		railway				300	917
BurtLPS15 [113]	17	task, machine, precedence, order, tardiness, job, job-shop, resource, scheduling, make-span, completion-time	parallel machine, single machine	cumulative, cycle		Cplex, Gurobi, Gecode, MiniZinc			real-world, benchmark, industry partner		117	734
CappartS17 [116]	16	machine, activity, job, precedence, re-scheduling, resource, job-shop, scheduling, task, order, completion-time	TMS	cumulative, noOverlap, alternative constraint, span constraint		OPL, OZ	railway		bitbucket, random instance, real-life		86	703
CappartTSR18 [117]	17	resource, setup-time, producer/consumer, scheduling, transportation, order, activity		cumulative, noOverlap, circuit, disjunctive		Cplex, MiniZinc, OPL, CPO	medical, patient		bitbucket, CSPLib, real-life		73	690
CarchraeBF05 [118]	1	scheduling, order, task, make-span									237	854
Caseau97 [122]	4	preempt, make-span, order, scheduling, job, resource, job-shop, task		cumulative			robot		benchmark	edge-finding	298	915
CauwelaertDMS16 [123]	16	batch process, task, job, job-shop, order, activity, make-span, machine, scheduling, completion-time, setup-time, resource, sequence dependent setup, preempt, precedence		cumulative, disjunctive	Java		container terminal		real-life, bitbucket, benchmark	not-last, edge-finding, not-first	101	718
CestaOS98 [126]	1	resource, scheduling, job					robot				289	906
ChapadosJR11 [127]	6	activity, scheduling, order, task		cycle, cumulative		OPL		retail industry		time-tabling	175	792
ChuGNSW13 [128]	7	distributed, resource, scheduling, precedence, order, task, machine, job		disjunctive, cumulative, alldifferent		CHIP				not-first, not-last, edge-finding	149	766
ChuX05 [129]	15	scheduling, machine, resource, job, release-date, order, due-date, completion-time	single machine	disjunctive, cumulative		ECLiPSe					238	855
CireCH13 [130]	7	make-span, tardiness, scheduling, machine, job, resource, precedence, task, order		circuit, cumulative		OPL, Cplex, OZ					150	767

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
ClercqPBJ11 [131]	16	resource, order, activity, due-date, release-date, distributed, precedence, scheduling, completion-time		alldifferent, cumulative	Java	CHIP, Choco Solver			benchmark	time-tabling, sweep, energetic reasoning, edge-finding	176	793
CobanH10 [132]	5	distributed, tardiness, job, preempt, re-scheduling, make-span, order, scheduling		circuit, disjunctive		OPL, Cplex					188	805
CohenHB17 [133]	17	scheduling, task, machine, order, activity		alternative constraint, noOverlap		OZ, OPL, Cplex				time-tabling	87	704
ColT19 [135]	17	earliness, order, scheduling, precedence, make-span, machine, resource, job, job-shop	JSSP	noOverlap, disjunctive	Java	MiniZinc, CPO, OR-Tools			github, benchmark, real-world		57	674
Colombani96 [137]	15	job, scheduling, resource, order, task, preempt, activity, due-date, machine, precedence, release-date, job-shop		disjunctive		CHIP					301	918
DannaP03 [139]	5	machine, job, job-shop, activity, earliness, order, tardiness, scheduling, resource		disjunctive		Cplex, Ilog Solver, Ilog Scheduler			benchmark		266	883
Davenport10 [141]	5	resource, release-date, tardiness, scheduling, completion-time, order, earliness, due-date				Cplex	semiconductor				189	806
DavenportKRSH07 [142]	13	make to order, activity, machine, sequence dependent setup, preempt, precedence, resource, inventory, job-shop, order, scheduling, job, setup-time		disjunctive, bin-packing	C++	Cplex, CHIP		steel industry			217	834
DejemeppeCS15 [149]	16	completion-time, tardiness, job-shop, scheduling, sequence dependent setup, make-span, machine, release-date, task, precedence, setup-time, job, resource, order, preempt, activity	single machine	disjunctive, cumulative, cycle			container terminal		real-world, bitbucket, generated instance, benchmark	not-last, not-first, edge-finding	118	735
DejemeppeD14 [150]	9	make-span, precedence, job-shop, resource, activity, setup-time, scheduling, order, job		cumulative			medical, patient		bitbucket		138	755
DemirovicS18 [152]	18	scheduling, order, task, resource, activity, precedence		cumulative, disjunctive		MiniZinc, Gurobi, OZ			real-world, benchmark	time-tabling	74	691
DerrienP14 [154]	9	resource, scheduling, activity, order, make-span	psplib, CuSP	cumulative	Java	Choco Solver			random instance	sweep, edge-finding, energetic reasoning	139	756
DerrienPZ14 [155]	9	re-scheduling, make-span, scheduling, resource, order, job, activity, machine, precedence	RCPSp, CuSP	cumulative		Choco Solver, CHIP			benchmark, random instance, real-world	sweep	140	757
DilkinaDH05 [157]	5	machine, precedence, job-shop, make-span, job, scheduling, order				OPL					239	856



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DoomsH08 [159]	16	scheduling, resource, completion-time, machine, job, job-shop, activity, task, order	RCPSP					services industry			208	825
DoulabiRP14 [160]	9	activity, scheduling, due-date, resource, task, order		bin-packing		Cplex	surgery, nurse, operating room, medical, patient				141	758
EdisO11 [162]	7	task, job, completion-time, activity, lateness, earliness, resource, make-span, scheduling, flow-time, preempt, tardiness, due-date, machine	parallel machine	bin-packing, noOverlap, cumulative		OPL, Cplex					177	794
EfthymiouY23 [163]	16	order, job, make-span, re-scheduling, task, job-shop, scheduling, machine, setup-time	CHSP, JSSP	cumulative, disjunctive, cycle	Python	OPL, OR-Tools	pipeline, hoist, electroplating, satellite		benchmark, random instance, generated instance, real-life, industrial instance		3	620
ElkhyariGJ02 [164]	6	resource, activity, precedence, scheduling, machine, due-date, preempt, make-span, re-scheduling, task	RCPSP	cumulative, disjunctive, table constraint							275	892
ElkhyariGJ02a [165]	24	activity, re-scheduling, order, due-date, scheduling, task, precedence, open-shop, resource	RCPSP, psplib	cumulative, disjunctive		OZ, OPL			benchmark, real-life	time-tabling	276	893
ErtlK91 [166]	12	setup-time, resource, scheduling, order, machine, task		cycle	Prolog		pipeline		real-world, benchmark		313	930
EvenSH15 [168]	18	preempt, transportation, order, scheduling, machine, distributed, resource, completion-time, task		disjunctive, cumulative		OPL, Choco Solver	emergency service		real-life, real-world	sweep	119	736
FocacciLN00 [177]	10	due-date, task, machine, preempt, job-shop, distributed, cmax, precedence, scheduling, make-span, sequence dependent setup, resource, open-shop, order, setup-time, job, activity		disjunctive					real-world	edge-finding	286	903
FontaineMH16 [178]	11	order, machine, job, task, completion-time, make-span, job-shop, resource, precedence, scheduling	parallel machine	disjunctive		MiniZinc, Gurobi, CHIP			benchmark		102	719
FortinZDF05 [179]	15	resource, order, task, activity, temporal constraint reasoning, precedence, make-span, scheduling	psplib								240	857
FrankK05 [180]	18	order, scheduling, job, resource, due-date, task, precedence		cycle			satellite, aircraft		benchmark		241	858
FrimodigS19 [182]	17	resource, order, task, machine, job-shop, job, scheduling		regular pression, cumulative, bin-packing	ex- Python	Gecode, Cplex, MiniZinc, OZ	radiation therapy, surgery, medical, patient, nurse, physician		benchmark, real-world		58	675

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FrohnerTR19 [183]	9	scheduling, order, distributed			Java, Python	MiniZinc, Gecode, Gurobi	nurse		benchmark, real-world		59	676
FrostD98 [184]	1	order, scheduling						power industry			290	907
GalleguillosKSB19 [185]	18	re-scheduling, machine, distributed, resource, order, activity, job, scheduling, make-span	JSSP	cumulative, alternative constraint	Python	OR-Tools, OZ	super-computer, datacenter				60	677
GarganiR07 [186]	13	order, machine, resource, inventory		bin-packing	C++	OPL	steel mill	steel industry	real-life, CSPlib		218	835
GayHLS15 [189]	9	precedence, task, order, make-span, resource, scheduling, activity	OSP, psplib, RCPSP	cumulative, disjunctive					benchmark, bitbucket	edge-finding, time-tabling	120	737
GayHS15 [190]	9	scheduling, precedence, resource, preempt, task, order		cumulative, table constraint, disjunctive		Choco Solver, OR-Tools, Gecode			bitbucket	time-tabling, sweep	121	738
GayHS15a [191]	16	manpower, task, order, preempt, resource, scheduling, machine	psplib, RCPSP	cumulative, disjunctive	Java				benchmark, bitbucket, real-world	time-tabling, not-first, not-last, energetic reasoning, edge-finding, sweep	122	739
GaySS14 [192]	15	machine, job, completion-time, activity, order, setup-time, make-span, scheduling, precedence, manpower, continuous-process, resource, job-shop		cycle, cumulative, disjunctive			steel mill		real-life, CSPlib	sweep	143	760
GeibingerKKMMW21 [194]	10	distributed, scheduling				MiniZinc, OR-Tools, Gurobi, Cplex, Gecode	nurse, physician, COVID, medical, patient	pharmaceutical industry	real-world		37	654
GeibingerMM19 [196]	16	precedence, release-date, resource, activity, re-scheduling, job, order, due-date, completion-time, scheduling, make-span, task	RCPSP	alternative constraint, noOverlap, cumulative, endBeforeStart	Java	CPO, Cplex, Gecode, MiniZinc	automotive		real-life, generated instance, industrial partner, real-world, benchmark	time-tabling	61	678
GeibingerMM21 [197]	9	lazy clause generation, precedence, release-date, resource, activity, job, order, due-date, completion-time, tardiness, scheduling, machine, task	RCPSP	disjunctive, cumulative		CPO, Chuffed, Cplex	nurse, operating room		real-life, github, generated instance, real-world, benchmark	time-tabling	38	655

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
GeitzGSSW22 [198]	18	make-span, order, setup-time, job, scheduling, completion-time, sequence dependent setup, resource, task, machine, preempt, producer/consumer, lateness, lazy clause generation, precedence, job-shop, batch process, transportation	single machine, RCPSP, JSSP	cumulative		OZ, OPL	robot		real-life, github, real-world	not-last, sweep	18	635
GelainPRVW17 [199]	16	resource, scheduling, order							CSPlib, real-life, benchmark		88	705
Geske05 [200]	18	machine, task, re-scheduling, job, activity, order, distributed, resource, scheduling, lateness, job-shop		cumulative	Prolog	CHIP, SIC-Stubus	railway		real-life		242	859
GilesH16 [201]	16	inventory, setup-time, activity, task, transportation, order, scheduling, resource		cumulative, disjunctive		Cplex	pipeline	petro-chemical industry, chemical processing industry, chemical industry			103	720
GingrasQ16 [202]	7	resource, scheduling, task, order, make-span, completion-time, precedence	psplib, CuSP, RCPSP	disjunctive, cumulative		Choco Solver			benchmark	sweep, edge-finder, edge-finding, energetic reasoning	104	721
GodardLN05 [203]	9	scheduling, activity, order, completion-time, earliness, machine, make-span, job, precedence, tardiness, resource, job-shop	JSSP	table constraint, cumulative, disjunctive		OZ, Ilog Scheduler, Ilog Solver			benchmark		243	860
GodetLHS20 [205]	8	lazy clause generation, setup-time, release-date, scheduling, task, order, machine, make-span, cmax, completion-time, resource, job	parallel machine, PMSP, single machine	alldifferent, bin-packing, cumulative, disjunctive		OZ, Choco Solver, CHIP, Chuffed	satellite		github, real-life, benchmark, generated instance	not-last, time-tabling	46	663
GoldwaserS17 [208]	16	scheduling, machine, transportation, due-date, order, lazy clause generation, resource		cumulative, disjunctive	Python	Gurobi, Gecode	torpedo	steel industry	instance generator, github, generated instance		89	706
Goltz95 [210]	14	due-date, machine, task, job, completion-time, order, resource, scheduling, precedence, job-shop		cumulative, disjunctive	Prolog	CHIP			benchmark	edge-finding	303	920
GomesHS06 [211]	2	scheduling, distributed, task, multi-agent, order				Ilog Solver			real-life		229	846
GrimesH10 [212]	15	cmax, machine, job, setup-time, job-shop, flow-shop, sequence dependent setup, open-shop, task, batch process, resource, scheduling, make-span, precedence, order	Open Shop Scheduling Problem	disjunctive, cumulative, cycle		OZ		steel industry	benchmark	time-tabling, edge-finding	190	807

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
GrimesH11 [213]	17	cmax, completion-time, machine, tardiness, job, release-date, earliness, lazy clause generation, job-shop, flow-shop, open-shop, task, due-date, resource, scheduling, make-span, precedence, order	RCPSP	disjunctive, cumulative		Cplex, Ilog Scheduler, Ilog Solver, OZ, OPL			benchmark	edge-finding	178	795
GrimesHM09 [215]	9	make-span, resource, job, precedence, open-shop, scheduling, task, order, job-shop, machine	Open Shop Scheduling Problem, OSP	disjunctive	Java	Choco Solver, Ilog Scheduler, Mistral			benchmark	not-last, edge-finding	198	815
GroleazNS20 [218]	17	tardiness, precedence, release-date, job-shop, setup-time, job, scheduling, resource, order, machine, inventory, preempt, due-date	GCSP	noOverlap, cycle, cumulative, circuit		CPO, OR-Tools		food industry	benchmark, industrial instance		47	664
GroleazNS20a [217]	9	scheduling, machine, inventory, transportation, due-date, distributed, order, tardiness, job, release-date, precedence, resource, setup-time, preempt	parallel machine, RCPSP	cycle, noOverlap, cumulative		Cplex, CPO		food industry	industrial partner, benchmark		48	665
GruianK98 [219]	8	task, resource, scheduling, order, activity, re-scheduling		cumulative, cycle, diffn, circuit		OPL, CHIP	pipeline, aircraft		benchmark		291	908
GuSS13 [220]	7	lazy clause generation, activity, order, distributed, scheduling, precedence, make-span, machine, resource	single machine	cumulative					benchmark	edge-finding, edge-finder, time-tabling	151	768
GuSW12 [221]	15	lazy clause generation, activity, order, preempt, scheduling, precedence, make-span, cmax, resource, job		cumulative	C++				benchmark		163	780
HananKP21 [227]	17	job-shop, resource, scheduling, make-span, completion-time, task, machine, precedence, order, cmax, tardiness, job, lateness, preempt, release-date, due-date	RCPSP, CuSP, parallel machine	cumulative	Python	Claire	pipeline		Roadef, generated instance, random instance	energetic reasoning	39	656
He0GLW18 [231]	18	distributed, machine, precedence, re-scheduling, transportation, multi-agent, order, scheduling			Python	Gurobi	real-time pricing, energy-price		real-world, bit-bucket		75	692
HebrardALLCMR22 [232]	7	activity, order, scheduling		cumulative	Julia	OZ, Claire	deep space			sweep	19	636
HebrardTW05 [234]	1	order, job, machine, job-shop, scheduling									244	861
HechingH16 [235]	11	re-scheduling, job, task, order, scheduling, manpower		circuit, noOverlap		OPL, Cplex, OZ	patient, medical		real-world		105	722
HeinzB12 [237]	17	activity, precedence, release-date, due-date, earliness, order, tardiness, scheduling, resource, completion-time, machine, job	single machine	cycle, cumulative, alternative constraint		Cplex, Ilog Solver, Ilog Scheduler, OPL					164	781
HeinzKB13 [238]	16	release-date, job-shop, resource, scheduling, order, machine, tardiness, job	single machine	cumulative		OPL, Cplex					152	769

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
HeinzS11 [240]	10	preempt, order, scheduling, resource, completion-time, machine, job	psplib, RCPSP	disjunctive, cumulative		Cplex			benchmark	energetic reasoning, time-tabling	179	796
HentenryckM04 [245]	16	open-shop, resource, order, activity, job, due-date, completion-time, tardiness, scheduling, make-span, machine, task, job-shop, precedence		disjunctive, cycle, cumulative					benchmark		255	872
HentenryckM08 [246]	5	order		bin-packing			steel mill		CSPLib		209	826
HermenierDL11 [247]	15	precedence, distributed, resource, order, scheduling, completion-time, producer/consumer, machine, task		bin-packing, disjunctive, alldifferent, cumulative, cycle, table constraint		OZ, Choco Solver	datacenter				180	797
HillTV21 [248]	19	scheduling, machine, job, resource, activity, flow-shop, release-date, task, precedence, order, preempt, lazy clause generation, make-span	RCPSP, psplib, single machine	cycle, cumulative, alternative constraint					real-world		40	657
HoYCLLC18 [249]	6	resource, task, machine, distributed, re-scheduling, order, job, scheduling			C		nurse, medical, patient		real-world		76	693
HoeveGSL07 [512]	6	re-scheduling, job, precedence, distributed, resource, task, job-shop, multi-agent, scheduling, machine, order		disjunctive		Ilog Scheduler, Cplex			benchmark	edge-finding	219	836
Hooker04 [251]	12	machine, task, precedence, release-date, make-span, order, tardiness, scheduling, distributed, resource		cumulative, circuit, disjunctive		Cplex, OPL, Ilog Scheduler			random instance		256	873
Hooker05a [253]	14	release-date, due-date, resource, scheduling, make-span, task, precedence, order, machine, tardiness, job		circuit, cumulative, disjunctive		OPL, Cplex, Ilog Scheduler					245	862
Hooker17 [256]	14	job, due-date, order, tardiness, scheduling, resource		circuit		OZ			benchmark, random instance		90	707
HookerY02 [260]	5	resource, scheduling, order, machine, job	RCPSP	disjunctive, cumulative							277	894
HoundjiSWD14 [261]	16	precedence, resource, scheduling, machine, inventory, transportation, due-date, order	single machine	circuit					bitbucket, generated instance		144	761
IfrimOS12 [264]	16	task, order, machine, job, re-scheduling, distributed, due-date, resource, scheduling		disjunctive			datacenter, energy-price		real-life		165	782
JelinekB16 [268]	10	scheduling, task, order, completion-time		table constraint, cumulative	Prolog	OZ, SICS-tus, OPL			real-life		106	723
JungblutK22 [270]	4	distributed, machine, make-span, scheduling, resource, order, task, preempt		circuit		MiniZinc			benchmark, github, real-world		20	637
JuvinHHL23 [271]	16	cmax, resource, job, setup-time, scheduling, task, order, job-shop, due-date, machine, preempt, make-span, flow-shop, completion-time, precedence	JSSP, parallel machine	endBeforeStart, disjunctive, alldifferent, cumulative, noOverlap	C++	CPO, Mistral			supplementary material, github, benchmark	not-last, edge-finding, not-first	4	621

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
JuvinHL23 [272]	16	make-span, completion-time, task, precedence, order, cmax, machine, tardiness, job, setup-time, job-shop, flow-shop, scheduling		noOverlap, end-BeforeStart		Cplex, CPO			real-world		5	622
KamarainenS02 [273]	17	machine, job-shop, resource, precedence, transportation, earliness, activity, job, order, preempt, scheduling	KRFP			ECLiPSe			real-world, benchmark		278	895
KameugneFGOQ18 [275]	17	resource, task, cmax, precedence, make-span, scheduling, order, completion-time	RCPSp, CuSP	cumulative, disjunctive	Java	CHIP, Choco Solver			benchmark, real-world	time-tabling, not-first, sweep, not-last, energetic reasoning	77	694
KameugneFND23 [276]	17	machine, resource, precedence, cmax, order, preempt, scheduling, make-span, completion-time, task, lazy clause generation	psplib, CuSP, RCPSp	disjunctive, cumulative	Java	CHIP, Choco Solver			benchmark	sweep, energetic reasoning, edge-finding, not-last, not-first, edge-finder, time-tabling	6	623
KameugneFSN11 [277]	15	job-shop, release-date, resource, precedence, job, order, preempt, scheduling, make-span, completion-time, task	RCPSp, psplib, CuSP	disjunctive, cumulative		Gecode			benchmark	edge-finding, not-last, not-first, time-tabling	181	798
KelarevaTK13 [280]	17	order, tardiness, make-span, re-scheduling, task, resource, lazy clause generation, activity, precedence, scheduling, inventory, transportation, setup-time	Liner Shipping Fleet Repositioning Problem, BPCTOP, LSFRP, Bulk Port Cargo Throughput Optimisation Problem	alldifferent		Cplex, MiniZinc, OZ	earth observation, shipping line, satellite		real-world		153	770
KeriK07 [282]	14	due-date, tardiness, temporal constraint reasoning, job, activity, order, earliness, make-span, scheduling, precedence, cmax, resource, job-shop	RCPSp	cycle	C++					edge-finding	220	837
KhemmoudjPB06 [284]	13	resource, stock level, distributed, order, scheduling		cycle, cumulative	C++	CHIP			real-world		230	847

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
KimCMLLP23 [285]	16	make-span, job, precedence, open-shop, distributed, tardiness, setup-time, earliness, job-shop, due-date, scheduling, order, transportation, machine	parallel machine, SCC	noOverlap	Python	Gurobi, OR-Tools		steel industry	real-world, benchmark, zenodo		7	624
KlankeBYE21 [286]	16	re-scheduling, make-span, order, job, activity, scheduling, completion-time, due-date, resource, task, machine, producer/consumer, job-shop, batch process		noOverlap, disjunctive, cumulative, circuit	Python	Gurobi, Cplex, CHIP, OR-Tools		food-processing industry	benchmark, random instance, real-life		41	658
KletzanderM17 [287]	15	scheduling, machine, resource, transportation, order	parallel machine			OZ	torpedo	steel industry			91	708
KorbaaYG99 [290]	8	job, resource, task, job-shop, scheduling, machine, flow-shop, order, transportation, make-span		cycle, circuit	Prolog	CHIP, Ilog Solver, OZ	robot, hoist				287	904
KoschB14 [292]	16	resource, completion-time, batch process, lateness, job-shop, release-date, due-date, multi-agent, order, cmax, make-span, scheduling, machine, distributed, job	single machine, RCPSP	cumulative, bin-packing, disjunctive	Java	Choco Solver, Cplex, OZ	semiconductor		benchmark		145	762
KovacsB07 [293]	15	order, tardiness, job, activity, preempt, release-date, earliness, due-date, job-shop, flow-shop, resource, scheduling, make-span, completion-time, machine	parallel machine, single machine	cumulative	C++	Ilog Solver			benchmark		221	838
KovacsEKV05 [296]	1	scheduling, resource, setup-time, job, job-shop, precedence							real-life		246	863
KovacsTKSG21 [300]	17	resource, precedence, job-shop, due-date, preempt, scheduling, order, machine, tardiness, flow-shop, job, inventory, re-scheduling, task, distributed, release-date	RCPSP, single machine	cumulative		Gurobi, OR-Tools, Cplex			github, supplementary material, real-world, benchmark		42	659
KovacsV04 [298]	15	job, job-shop, resource, scheduling, make-span, task, machine, precedence, order	single machine	disjunctive, cumulative		Ilog Scheduler			industrial partner, benchmark, real-life	edge-finding	257	874
KovacsV06 [299]	13	tardiness, job, setup-time, earliness, job-shop, resource, scheduling, make-span, task, machine, precedence, order	RCPSP, single machine	cumulative		Ilog Scheduler	automotive		industrial partner, benchmark, generated instance		231	848
KreterSS15 [301]	17	scheduling, task, order, machine, preempt, activity, make-span, completion-time, resource, lazy clause generation	RCPSP, parallel machine	cumulative, diffn		Cplex, MiniZinc, CHIP, Chuffed			benchmark		123	740
KrogtLPHJ07 [511]	13	resource, order, job, inventory, activity, due-date, machine, job-shop, precedence, scheduling		circuit	Prolog	OPL	semiconductor aircraft		real-world		222	839
KucukY19 [307]	5	order, scheduling, distributed, resource, setup-time, sequence dependent setup, task		disjunctive, cycle, noOverlap		Cplex	satellite, earth observation		benchmark, generated instance	time-tabling	62	679

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
Kumar03 [306]	15	activity, order, scheduling, producer/consumer, resource		cycle						bi-partite matching, max-flow	267	884
Laborie09 [309]	15	task, precedence, order, machine, tardiness, job, activity, setup-time, release-date, inventory, earliness, sequence dependent setup, due-date, preempt, job-shop, resource, scheduling		noOverlap, endBeforeStart, alternative constraint, cumulative, disjunctive	C	OPL, CPO, OZ	aircraft, satellite		real-world, benchmark		199	816
Laborie18a [310]	9	resource, job, release-date, scheduling, task, due-date, machine, precedence		cumulative, alternative constraint		Ilog Scheduler, CPO, OPL			real-life, benchmark, real-world	energetic reasoning	78	695
LacknerMMWW21 [312]	18	release-date, flow-shop, batch process, setup-time, job, order, due-date, tardiness, scheduling, make-span, machine, task, lateness, earliness	parallel machine, OSP, single machine	noOverlap, cumulative, end-BeforeStart		Chuffed, Cplex, OPL, CPO, OZ, OR-Tools, MiniZinc, Gurobi	semiconductor oven scheduling	electronics industry, steel industry, manufacturing industry	random instance, industrial partner, benchmark, instance generator, real-life, supplementary material		43	660
LahimerLH11 [314]	14	resource, task, machine, preempt, cmax, precedence, make-span, order, job, scheduling, completion-time	parallel machine, RCPSP	disjunctive	C++	Ilog Scheduler			benchmark	energetic reasoning	182	799
LauLN08 [316]	5	order, distributed, inventory, resource, scheduling, flow-shop, transportation, job-shop, machine, job							benchmark, real-world		210	827
LetortBC12 [319]	16	order, machine, make-span, precedence, resource, scheduling, task	psplib	cumulative, geost, bin-packing	Java, Prolog	Choco Solver, CHIP, SICStus	datacenter		Roadef, benchmark, random instance	sweep, edge-finding	166	783
LetortCB13 [320]	16	machine, make-span, precedence, resource, scheduling, task, order	psplib, RCPSP	cumulative, disjunctive, bin-packing	Java, Prolog	Choco Solver, SICStus			Roadef, benchmark, random instance	energetic reasoning, sweep, edge-finding	154	771
LiFJZLL22 [322]	6	task, machine, tardiness, job, buffer-capacity, flow-time, setup-time, distributed, job-shop, batch process, transportation, flow-shop, scheduling, make-span, order, completion-time	single machine			OZ, OPL	robot		benchmark		21	638
LimBTBB15 [326]	15	job-shop, scheduling, multi-agent, order, machine, tardiness, job, re-scheduling, earliness				OPL	HVAC		benchmark	time-tabling	124	741
LimHTB16 [325]	18	machine, activity, re-scheduling, multi-agent, order, scheduling, distributed		cumulative		OPL	real-time pricing, HVAC, energy-price		real-world		107	724
LimRX04 [324]	5	scheduling, preempt, machine, job, completion-time, order, transportation				OZ	container terminal		generated instance		258	875



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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
Limtanyakul07 [327]	6	make-span, task, machine, release-date, resource, precedence, job, order, scheduling, due-date		cumulative		OPL	robot		real-life	energetic reasoning	223	840
LipovetzkyBPS14 [329]	9	scheduling, resource, precedence, task, order, transportation, make-span		disjunctive		Cplex	crew-scheduling		industrial partner, real-life, industry partner, real-world, benchmark, generated instance		146	763
LiuCGM17 [331]	17	transportation, order, cmax, scheduling, machine, task, activity			Python	OR-Tools, OPL, MiniZinc		tourism industry	github		92	709
LiuJ06 [332]	5	make-span, task, order, scheduling, resource		cycle, disjunctive							232	849
LiuLH19 [330]	9	order, resource, scheduling				Choco Solver, OZ			CSPlib, benchmark	time-tabling	63	680
LombardiBM15 [334]	16	completion-time, job-shop, resource, activity, precedence, scheduling, machine, distributed, order, job, make-span, task	JSSP, RCPSP, psplib						benchmark, real-world		125	742
LombardiBMB11 [335]	17	resource, order, activity, completion-time, scheduling, make-span, machine, task, precedence	RCPSP	cycle, cumulative	C++		hoist		benchmark, industrial instance, real-life		183	800
LombardiM09 [336]	15	precedence, completion-time, make-span, order, activity, scheduling, resource, task, preempt	RCPSP			Ilog Solver			real-world, instance generator		200	817
LombardiM10 [338]	15	precedence, completion-time, make-span, order, activity, scheduling, resource, task	RCPSP	disjunctive, cumulative		Ilog Solver			real-world, benchmark		191	808
LombardiM13 [341]	2	precedence, make-span, order, activity, scheduling, resource, task	RCPSP, psplib								155	772
LuoB22 [349]	17	order, scheduling, resource, re-scheduling, machine, batch process, job, job-shop		diffn, bin-packing, alwaysIn, cumulative	Python	CHIP, Cplex	super-computer, railway, rectangle-packing		generated instance, github, real-life, real-world, industry partner, industrial instance		22	639
LuoVLBM16 [348]	4	task, machine, precedence, order, job, activity, job-shop, resource, scheduling					nurse			time-tabling	108	725
Madi-WambaB16 [350]	16	precedence, job, order, scheduling, task, resource		cumulative	Java	Choco Solver, CHIP			real-world, benchmark, random instance, generated instance		109	726
Madi-WambaLOBM17 [351]	8	machine, task, activity, re-scheduling, job, precedence, distributed, scheduling, order, resource		bin-packing, cumulative	Prolog	SICStus	datacenter		real-world	sweep	93	710

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MakMS10 [352]	5	scheduling, due-date, order, machine, inventory, task, job, activity, transportation, precedence, resource		cycle							192	809
MalapertN19 [354]	17	make-span, scheduling, completion-time, sequence dependent setup, resource, order, setup-time, job, flow-time, task, machine, cmax	parallel machine, PMSP, PTC, single machine	noOverlap, alwaysIn, cumulative, alternative constraint		Cplex, CPO	semiconductor		generated instance, benchmark, industrial instance, Roadef		64	681
MaraveliasG04 [357]	20					OZ					259	876
Mehdizadeh-Somarin23 [360]	14	multi-agent, job-shop, completion-time, re-scheduling, tardiness, machine, scheduling, cmax, flow-shop, job, task, setup-time, precedence, order, make-span, preempt	parallel machine, JSSP, single machine		Python	Cplex, OZ	robot, COVID		random instance		8	625
MelgarejoLS15 [8]	17	tardiness, scheduling, machine, task, precedence, transportation, setup-time, resource, order, job	single machine	circuit, disjunctive, alldifferent, noOverlap, table constraint		OZ, Cplex			real-world, benchmark		126	743
Mercier-AubinGQ20 [365]	13	job, preempt, task, make-span, sequence dependent setup, setup-time, tardiness, precedence, resource, earliness, completion-time, machine, lazy clause generation, activity, job-shop, due-date, scheduling, order	RCPSPP	cycle, circuit, cumulative, disjunctive	C++, Python	OPL, MiniZinc		textile industry, manufacturing industry	industrial instance, industrial partner		49	666
MoffittPP05 [366]	6	scheduling, resource, order, activity, machine, cmax, make-span	Temporal Constraint Satisfaction Problem	cycle, disjunctive							247	864
MonetteDD07 [368]	14	precedence, job-shop, make-span, job, scheduling, completion-time, resource, open-shop, order, preempt, no preempt, task, machine	Open Shop Scheduling Problem, OSP	disjunctive		Gecode			benchmark	not-last, not-first, edge-finding	224	841
MonetteDH09 [369]	8	precedence, release-date, job-shop, tardiness, make-span, job, scheduling, completion-time, resource, order, preempt, activity, earliness, distributed, due-date, task, machine		cycle, disjunctive, cumulative					benchmark	not-last	201	818
MossigeGSMC17 [372]	18	activity, job, distributed, order, completion-time, preempt, scheduling, make-span, machine, task, job-shop, resource, precedence	FJS, single machine, RCPSPP	cumulative, cycle, disjunctive	Prolog	SICStus, CHIP	rectangle-packing, robot		industrial partner, real-world, benchmark, random instance, CSPLib, generated instance		94	711
MouraSCL08 [374]	16	scheduling, preempt, activity, order, transportation, inventory, precedence, distributed, resource		table constraint, disjunctive, cycle	C++	Ilog Solver, OZ, Ilog Scheduler	pipeline		max-flow		211	828

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
MouraSCL08a [373]	8	transportation, re-scheduling, order, scheduling, due-date, resource, inventory, distributed	JSPT	disjunctive, cumulative	C++	Ilog Solver, Ilog Scheduler	pipeline		real-world, benchmark		212	829
MurinR19 [376]	16	job-shop, task, make-span, transportation, order, resource, scheduling, machine, setup-time, job, activity, completion-time, precedence		noOverlap, alternative constraint, endBeforeStart		Cplex, OPL	patient, robot		real-life, benchmark, github		65	682
MurphyMB15 [377]	17	scheduling, task, order, machine, activity, re-scheduling, resource		cycle, circuit, cumulative, disjunctive	Java	Choco Solver			real-world		127	744
Muscettola02 [378]	16	job-shop, resource, activity, precedence, scheduling, order, job, cmax		cycle						edge-finding, max-flow	279	896
MusliuSS18 [379]	17	distributed, scheduling, activity, manpower, task, order, machine		cycle		Gecode, Gurobi, MiniZinc	operating room, nurse		generated instance, benchmark, real-life		79	696
NattafM20 [384]	16	setup-time, resource, scheduling, make-span, order, completion-time, machine, job, flow-time	single machine, PMSP, parallel machine, PTC	cumulative, noOverlap		CPO, Cplex	semiconductor		benchmark, industrial instance		50	667
NethercoteSBBDT07 [385]	15	resource, machine, job-shop, order, job, task			C++	MiniZinc, ECLiPSe, Choco Solver, Ilog Solver, OZ, Gecode, OPL, Cplex			CSPLib, benchmark		225	842
NishikawaSTT18 [387]	6	make-span, order, resource, activity, task, distributed, precedence, scheduling		alternative constraint, endBeforeStart		Cplex, OZ	pipeline, robot		real-world, benchmark		80	697
NishikawaSTT18a [388]	6	task, order, activity, make-span, scheduling, distributed, resource, precedence, re-scheduling		endBeforeStart, alternative constraint		OZ, Cplex	robot, nurse, pipeline		real-world, benchmark, real-life		81	698
NuijtenA94 [395]	5	precedence, resource, job-shop, scheduling, preempt, order, completion-time, machine, make-span, job	JSSP	disjunctive	C++	Ilog Solver, CPO				time-tabling	310	927
OddiPCC03 [397]	15	preempt, distributed, resource, scheduling, precedence, order, completion-time, task, machine, activity	single machine	cycle	Java		satellite, earth observation		benchmark		268	885
OuelletQ13 [399]	16	scheduling, task, order, preempt, make-span, completion-time, precedence, resource	CuSP, RCPSP, psplib	cumulative, disjunctive		Choco Solver			benchmark	edge-finding, not-first, edge-finder, energetic reasoning, not-last, time-tabling, sweep	156	773

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
OuelletQ18 [400]	18	scheduling, task, order, make-span, completion-time, precedence, resource	RCPSP, pspLib	cumulative, dis-junctive	Java	OZ, Choco Solver			benchmark, RoadeF	edge-finding, not-first, energetic reasoning, not-last, time-tabling	82	699
OuelletQ22 [401]	17	scheduling, task, order, preempt, activity, completion-time, resource, lazy clause generation		cumulative, dis-junctive	Java	MiniZinc, Choco Solver	nurse		github, benchmark, random instance	edge-finding, not-first, energetic reasoning, not-last, time-tabling, sweep	23	640
OujanaAYB22 [402]	6	distributed, due-date, tardiness, make to order, precedence, flow-shop, job-shop, batch process, buffer-capacity, make-span, setup-time, job, scheduling, completion-time, sequence dependent setup, resource, open-shop, order, task, machine, preempt	PMSP, parallel machine, FJS, HFF	span constraint, noOverlap, dis-junctive		CPO, OPL	COVID, robot	food industry, steel industry	benchmark, industrial instance, real-world, real-life		24	641
ParkUJR19 [408]	8	task, machine, flow-time, order, cmax, tardiness, job, lateness, preempt, no preempt, distributed, due-date, job-shop, flow-shop, resource, scheduling, make-span, open-shop, completion-time	parallel machine, single machine	endBeforeStart, cycle, noOverlap					real-world		66	683
PembertonG98 [409]	14	job-shop, resource, activity, preempt, scheduling, machine, order, job, task		geost, cycle		Ilog Solver, OPL	satellite, robot				292	909
PerezGSL23 [410]	7	resource, inventory, scheduling, task, order, machine, activity, make-span, completion-time, transportation, re-scheduling		table constraint, cumulative		OPL	operating room, nurse, steel mill, container terminal		real-world, generated instance		9	626
PesantRR15 [412]	16	activity, transportation, lazy clause generation, scheduling, order		cumulative, table constraint		Gurobi, Gecode, Ilog Solver					128	745
PoderB08 [414]	8	resource, producer/consumer, release-date, task, activity, preempt, due-date, order, scheduling		cumulative		CHIP				sweep	213	830
PopovicCGNC22 [418]	15	order, completion-time, scheduling, make-span, machine, task, resource, transportation, activity	TMS	cumulative, alwaysIn, noOverlap	C++, Prolog	Cplex, SICStus, CHIP, OZ	pipeline	electricity industry			25	642

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
PovedaAA23 [420]	21	make-span, resource, job, precedence, lazy clause generation, release-date, task, job-shop, scheduling, preempt, activity, order	RCPSP	cumulative, disjunctive	Python	Chuffed, Cplex, MiniZinc, CPO	automotive, aircraft		real-world, github, benchmark, industrial instance, real-life		10	627
Pralet17 [421]	19	setup-time, job, activity, precedence, job-shop, due-date, order, sequence dependent setup, make-span, resource, scheduling, machine	RCPSP, psplib, JSSP	cycle, cumulative, disjunctive		CPO, Cplex, CHIP	satellite		benchmark		95	712
PraletLJ15 [422]	16	order, job-shop, activity, make-span, precedence, resource, job, due-date, scheduling, tardiness, task	JSSP	alternative constraint, noOverlap, cycle		CPO, Cplex	earth observation, satellite				129	746
Puget95 [424]	4	resource, job-shop, task, job, activity, order, scheduling, transportation, manpower		disjunctive		OPL			benchmark		304	921
QuSN06 [427]	4	task, scheduling, distributed, resource, precedence		circuit	Prolog	SICStus					233	850
QuirogaZH05 [428]	6	release-date, tardiness, precedence, flow-shop, scheduling, completion-time, make-span, resource, order, inventory, activity, earliness, due-date, flow-time, task, machine				Ilog Solver, OPL, OZ, Ilog Scheduler, ECLiPSe	robot				248	865
RendlPHPR12 [429]	17	re-scheduling, job, scheduling, order, machine, transportation			Java	OZ	medical, patient, nurse		real-world, CSPLib, benchmark		167	784
RiahiNS018 [430]	9	flow-shop, completion-time, job, scheduling, distributed, tardiness, setup-time, order, buffer-capacity, machine, make-span, sequence dependent setup							real-world, real-life, benchmark		83	700
RodosekW98 [431]	15	task, order, transportation, machine, activity, make-span, job, resource, scheduling		circuit, disjunctive, cycle	Prolog	OPL, CHIP, ECLiPSe, Cplex	hoist, electroplating		benchmark		293	910
RossiTHP07 [434]	15	resource, inventory, scheduling, distributed, stock level, order		cumulative, cycle		OPL, Choco Solver					226	843
Sadykov04 [437]	7	release-date, due-date, preempt, scheduling, completion-time, task, precedence, machine, job, lateness	parallel machine, single machine	disjunctive						edge-finding	260	877
SchuttCSW12 [442]	17	scheduling, resource, order, preempt, activity, lazy clause generation, precedence, make-span		cumulative		CHIP			benchmark		168	785
SchuttFS13 [444]	17	resource, job, lazy clause generation, scheduling, task, order, job-shop, machine, activity, make-span, completion-time, precedence	RCPSP, FJS	disjunctive, span constraint, alternative constraint, cumulative		MiniZinc			benchmark	time-tabling, energetic reasoning	157	774

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SchuttFS13a [443]	17	make-span, scheduling, completion-time, resource, order, task, machine, preempt, activity, lazy clause generation, precedence	RCPSP, psplib	disjunctive, cumulative, circuit		CHIP, OZ			benchmark	not-last, edge-finding, energetic reasoning	158	775
SchuttFSW09 [445]	16	scheduling, resource, open-shop, order, task, machine, preempt, activity, lazy clause generation, precedence, make-span, job	psplib	disjunctive, cumulative		ECLiPSe, CHIP, SICStus, OZ			benchmark, real-world	edge-finder	202	819
SchuttS16 [450]	17	machine, producer/consumer, precedence, order, inventory, lazy clause generation, activity, preempt, manpower, resource, scheduling, make-span	RCPSP	cumulative		Chuffed, MiniZinc, Ilog Scheduler, OPL			benchmark		110	727
SchuttW10 [451]	15	task, order, lazy clause generation, activity, preempt, release-date, due-date, resource, scheduling, make-span	psplib, CuSP, RCPSP	disjunctive, cumulative	Java	CHIP	rectangle-packing		benchmark	edge-finding, not-last, not-first	193	810
SchuttWS05 [452]	15	task, order, due-date, machine, preempt, resource, release-date, scheduling		cumulative, disjunctive		OPL, CHIP			benchmark	not-last	249	866
SerraNM12 [453]	17	preempt, resource, scheduling, precedence, order, machine, activity, release-date, inventory		alwaysIn, cumulative, cycle		OPL, Cplex			benchmark, real-world		169	786
Shaw98 [455]	15	distributed, resource, machine, job, job-shop, transportation, task, order, scheduling		disjunctive	C++				benchmark		294	911
SialaAH15 [460]	10	make-span, open-shop, task, machine, precedence, order, cmax, tardiness, job, setup-time, earliness, lazy clause generation, job-shop, resource, scheduling	RCPSP, JSSP	disjunctive, cumulative		Mistral			github, benchmark	edge-finding	130	747
SimoninAHL12 [461]	15	resource, activity, precedence, preempt, scheduling, order, task		disjunctive, span constraint, cumulative, cycle		CHIP	satellite			sweep	170	787
Simonis95 [464]	4	transportation, resource, scheduling, task, machine, producer/consumer, precedence, order		cumulative, cycle, diffn, circuit	Prolog	CHIP	aircraft	food industry			305	922
Simonis95a [463]	21	due-date, scheduling, manpower, task, order, machine, inventory, job, precedence, producer/consumer, distributed, stock level, resource		cycle, diffn, circuit, cumulative	Prolog, C++	OZ, OPL, CHIP	aircraft, pipeline	chemical industry	real-life, benchmark		306	923
Simonis99 [465]	39	due-date, manpower, transportation, resource, scheduling, stock level, task, machine, producer/consumer, precedence, order, job, activity, inventory		disjunctive, cumulative, alldifferent, cycle, diffn, circuit	C++, Prolog	OZ, OPL, CHIP, ECLiPSe, SICStus	aircraft, pipeline, nurse	process industry, chemical industry, food industry	benchmark, real-world, real-life	bi-partite matching	288	905

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

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
SimonisC95 [468]	14	manpower, flow-shop, task, order, transportation, machine, inventory, job, batch process, producer/consumer, stock level, resource, continuous-process, job-shop, due-date, scheduling		diffn, cumulative	Prolog	OZ, CHIP	aircraft, pipeline	food industry	real-life		307	924
SquillaciPR23 [470]	17	resource, activity, multi-agent, distributed, order, scheduling, task	OSP, Earth Observation Scheduling Problem, EOSP	noOverlap	Python	Cplex	earth orbit, earth observation, satellite		github, benchmark		11	628
SunLYL10 [473]	6	task, order, scheduling, distributed		cycle		Cplex, OPL	automotive				194	811
SvancaraB22 [475]	8	multi-agent, batch process, make-span, order, activity, scheduling, resource, task		alternative constraint, noOverlap			railway		benchmark, real-world	time-tabling	26	643
SzerediS16 [476]	10	task, order, machine, preempt, activity, make-span, resource, precedence, lazy clause generation, scheduling	RCPSP, psplib	cumulative		Cplex, MiniZinc, Chuffed, Gecode			benchmark		111	728
TangB20 [478]	16	batch process, machine, job, flow-shop, precedence, resource, make-span, scheduling, tardiness, due-date, order	2BPHFSP, single machine	span constraint, bin-packing, alwaysIn, endBeforeStart, cycle	Java	Cplex, CPO	semiconductor	manufacturing industry	real-world		51	668
TardivoDFMP23 [480]	18	activity, order, preempt, scheduling, make-span, lazy clause generation, task, resource, precedence	RCPSP, psplib, CuSP	disjunctive, cumulative	C++	CHIP, Gecode, MiniZinc			bitbucket, github, benchmark, real-world	energetic reasoning, not-last, not-first, edge-finding, time-tabling, sweep	12	629
TasselGS23 [481]	9	scheduling, preempt, flow-time, flow-shop, task, order, completion-time, machine, make-span, re-scheduling, job, precedence, tardiness, resource, job-shop	JSSP	cumulative, noOverlap, disjunctive	Java	Choco Solver			industrial instance, real-world, supplementary material, github, benchmark		13	630
Teppan22 [484]	8	job-shop, task, make-span, order, cmax, preempt, distributed, resource, completion-time, scheduling, machine, setup-time, job, flow-shop	parallel machine, PTC, FJS, JSSP	noOverlap, endBeforeStart	Java	OR-Tools, OPL			real-life, benchmark		27	644
Tesch16 [487]	27	scheduling, order, job, completion-time, precedence, resource, make-span	CuSP, psplib, RCPSP	cumulative, disjunctive	C++	OPL			Roadef	sweep, edge-finding, energetic reasoning, not-last, time-tabling, not-first	112	729

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
Tesch18 [488]	17	scheduling, preempt, due-date, order, machine, task, job, completion-time, precedence, lateness, release-date, resource, make-span	CuSP, psplib, single machine, RCPSP	cumulative					Roadef	sweep, edge-finding, energetic reasoning, not-last, time-tabling	84	701
ThiruvadyBME09 [489]	15	tardiness, open-shop, machine, due-date, job, make-span, scheduling, order, resource, setup-time	single machine	cumulative	C++	Gecode					203	820
Thorsteinsson01 [491]	15	task, due-date, order, scheduling, job, machine, precedence	parallel machine	alldifferent, circuit, cumulative		OZ, OPL					282	899
Tom19 [493]	6	job-shop, job, re-scheduling, task, tardiness, activity, resource, make-span, scheduling, machine, transportation	single machine		Java	OZ, OPL			real-world		67	684
TouatBT22 [496]	8	tardiness, job, activity, preempt, release-date, no preempt, earliness, distributed, due-date, job-shop, flow-shop, resource, scheduling, make-span, completion-time, task, machine, precedence, order	RCPSP, single machine	noOverlap		OZ, OPL, Cplex	robot, container terminal, satellite		benchmark, generated instance	time-tabling	28	645
Touraivane95 [497]	3	scheduling, order, task			Prolog		crew-scheduling		real-life		308	925
TranB12 [499]	6	resource, make-span, scheduling, due-date, sequence dependent setup, tardiness, job, order, machine, completion-time, distributed, precedence, cmax, setup-time, release-date	PMSP, single machine, parallel machine	cycle, circuit	C++	Cplex			benchmark		171	788
TranDRFWOVB16 [500]	9	resource, activity, re-scheduling, job, order, scheduling, machine, task, job-shop, precedence		cycle	Python	OPL	aircraft				113	730
TranTDB13 [502]	9	flow-shop, resource, scheduling, make-span, order, cmax, task, machine, job, re-scheduling, flow-time, setup-time, distributed	parallel machine	cycle	C++	Cplex, OZ			real-world		159	776
TranVNB17a [504]	5	scheduling, task, order, transportation, machine, activity, resource, setup-time		alternative constraint, cumulative		Cplex	medical, robot		real-world		96	713
TranWDRFOVB16 [505]	9	precedence, job, order, activity, scheduling, job-shop, machine, task	single machine	cumulative, cycle	Python	OPL, Ilog Scheduler	robot, satellite		benchmark		114	731
ValleMGT03 [508]	8	machine, order, transportation, make-span, resource, job, precedence, task, job-shop, scheduling				Ilog Solver	robot		real-life	edge-finder	269	886
VanczaM01 [513]	15	resource, scheduling, precedence, task, machine, order		disjunctive, cycle		OZ	robot		real-life, real-world		283	900
VerfaillieL01 [514]	15	job, open-shop, order, scheduling, task, job-shop	Open Shop Scheduling Problem	cycle		Cplex, OPL	earth observation, satellite				284	901



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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
Vilim02 [515]	1	scheduling, precedence, sequence dependent setup, batch process, activity, setup-time, resource		cumulative, dis-junctive						edge-finding	280	897
Vilim03 [516]	1	scheduling, job, open-shop, order, job-shop		cumulative, dis-junctive						not-last, edge-finding	270	887
Vilim04 [517]	13	scheduling, precedence, sequence dependent setup, batch process, machine, task, job, completion-time, activity, order, setup-time, resource, job-shop		cumulative, dis-junctive					benchmark	sweep, not-last, edge-finding	261	878
Vilim05 [518]	14	scheduling, precedence, preempt, machine, task, job, open-shop, completion-time, activity, order, resource, make-span, job-shop		cumulative, dis-junctive	C++				benchmark	not-last	250	867
Vilim09 [519]	15	scheduling, precedence, preempt, job, completion-time, activity, order, resource, job-shop		cumulative, cycle		CPO				energetic reasoning, not-last, edge-finding, not-first	204	821
Vilim09a [520]	15	order, scheduling, resource, completion-time, task, activity, preempt		cycle, cumulative		Ilog Scheduler				edge-finding, not-last, energetic reasoning	205	822
Vilim11 [521]	16	scheduling, precedence, preempt, machine, task, completion-time, activity, order, manpower, resource	psplib, RCPSP	cumulative, dis-junctive, cycle					benchmark	sweep, energetic reasoning, not-last, time-tabling, edge-finding	184	801
VilimBC04 [522]	15	distributed, job-shop, resource, scheduling, make-span, open-shop, completion-time, machine, precedence, order, job, activity		disjunctive, cumulative					benchmark, real-life	not-first, edge-finding, not-last	262	879
VilimLS15 [524]	17	machine, precedence, order, cmax, job, activity, earliness, job-shop, resource, scheduling, make-span, completion-time, task	psplib, RCPSP	noOverlap, dis-junctive, cumulative		Cplex, CPO, OZ	rectangle-packing		benchmark	time-tabling	131	748
WangB20 [530]	8	job, order, machine, task, distributed, resource, scheduling	Fixed Job Scheduling, FJS	alldifferent		OZ, Gurobi	aircraft		github		52	669
WangB23 [531]	8	job, lazy clause generation, order, task, transportation, resource, scheduling	Fixed Job Scheduling, FJS	alldifferent		Gurobi	crew-scheduling, operating room, aircraft		real-world, random instance		14	631
WatsonB08 [534]	15	job-shop, resource, scheduling, make-span, completion-time, machine, order, cmax, job		disjunctive	C++	Ilog Scheduler			benchmark, real-world		214	831

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

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
WessenCS20 [535]	10	make-span, completion-time, precedence, job, scheduling, task, order, job-shop, multi-agent		circuit		Gecode, OZ	robot		real-world		53	670
WinterMMW22 [537]	18	tardiness, precedence, release-date, setup-time, job, scheduling, completion-time, resource, order, task, machine, distributed, due-date	parallel machine, PMSP	alternative constraint, noOverlap		CPO, Gurobi, Cplex	farming	manufacturing industry, agricultural industry	supplementary material, real-life, industry partner, zenodo, industrial partner, benchmark		29	646
Wolf03 [538]	15	completion-time, resource, job, make-span, machine, activity, job-shop, task, order, preempt, scheduling		cumulative, disjunctive	Java		pipeline		benchmark	not-last, not-first, edge-finding, sweep	271	888
WolfS05 [539]	14	preempt, activity, order, task, completion-time, scheduling, distributed, resource		cumulative		CHIP			real-world	energetic reasoning, not-last, sweep	251	868
WolinskiKG04 [540]	8	resource, precedence, scheduling, machine, order, distributed	SCC	cycle	Java		pipeline				264	881
WuBB05 [541]	1	scheduling, resource, job, make-span, release-date				Ilog Scheduler			benchmark		252	869
YangSS19 [543]	10	resource, completion-time, machine, task, activity, preempt, order, scheduling, lazy clause generation		cumulative, disjunctive	Prolog	Choco Solver, Gecode, CHIP, SICStus, OPL, OR-Tools	rectangle-packing		generated instance	not-last, energetic reasoning, edge-finding	68	685
YoungFS17 [545]	10	lazy clause generation, resource, scheduling, make-span, task, machine, precedence, order, activity, preempt	RCPSP, psplib	disjunctive, cumulative		Chuffed, MiniZinc			benchmark, github, instance generator	time-tabling	97	714
YuraszekMC23 [547]	6	cmax, job, open-shop, distributed, order, preempt, scheduling, due-date, job-shop, flow-time, make-span, machine, release-date, precedence	OSSP, JSSP	noOverlap					github, benchmark		15	632
ZhangBB22 [555]	9	preempt, distributed, job-shop, resource, scheduling, make-span, precedence, order, cmax, completion-time, task, machine, job, lateness	single machine	disjunctive, cycle, span constraint	Python	CPO, OPL, Gurobi			benchmark, generated instance		30	647
ZhangJZL22 [554]	6	setup-time, due-date, scheduling, flow-shop, task, order, completion-time, transportation, machine, make-span, job, precedence, tardiness, resource	parallel machine, single machine	alternative constraint, cumulative, noOverlap, endBeforeStart		OZ	semiconductor		benchmark		31	648
ZhangLS12 [558]	4	scheduling, order, cmax								time-tabling	172	789
Zhou96 [559]	15	release-date, job-shop, due-date, task, order, scheduling, precedence, completion-time, job, machine		disjunctive	Prolog	Z3				edge-finding	302	919

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
ZhouGL15 [561]	5	scheduling, distributed, resource, completion-time, tardiness, machine, setup-time, job, job-shop, flow-shop, task, re-scheduling, make-span, transportation, order, cmax	FJS, HFF, parallel ma- chine	cumulative		CHIP, OR-Tools, Gecode, OZ	railway		real-world		132	749
ZhuS02 [562]	5	activity, scheduling, distributed, resource									281	898
ZibranR11 [563]	4	scheduling, order, activity			Java	OPL, Cplex					185	802
ZibranR11a [564]	10	scheduling, distributed, order, activity, resource				Cplex, OPL				time-tabling	186	803

## 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	Based On	Classification	Constraints	a	b
AalianPG23 AalianPG23 [1]	Optimization of Short-Term Underground Mine Planning Using Constraint Programming	CP Opt	real-world	1	n		n			?	1	314
Bit-Monnot23 Bit-Monnot23 [86]	Enhancing Hybrid CP-SAT Search for Disjunctive Scheduling	ARIES CP Opt OR-Tools Mistral OR-Tools	real-world, github, benchmark	1	y		y	-	JSSP OSSP	-	2	356
EfthymiouY23 EfthymiouY23 [163]	Predicting the Optimal Period for Cyclic Hoist Scheduling Problems		benchmark, random instance, generated instance, real-life, industrial instance	3	n		n	-	CHSP	-	3	399
JuvinHHL23 JuvinHHL23 [271]	An Efficient Constraint Programming Approach to Preemptive Job Shop Scheduling	CP Opt Mistral	supplementary material, github, benchmark	6	ref		y		PJSSP	endBeforeStart span noOverlap	4	460
JuvinHL23 JuvinHL23 [272]	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	5	461
KameugneFND23 KameugneFND23 [276]	Horizontally Elastic Edge Finder Rule for Cumulative Constraint Based on Slack and Density	?	benchmark	5	BL PSPLib		n	-	RCPSPs	cumulative	6	464
KimCMLLP23 KimCMLLP23 [285]	Iterated Greedy Constraint Programming for Scheduling Steelmaking Continuous Casting	Gurobi OR-Tools	real-world, benchmark, zenodo	0	y		n	-	SCC	alternative noOverlap	7	469
Mehdizadeh-Somarin23 Mehdizadeh-Somarin23 [360]	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	8	511
PerezGSL23 PerezGSL23 [410]	A Constraint Programming Model for Scheduling the Unloading of Trains in Ports	custom	real-world, generated instance	0	n		n	-	SUTP	table disjunctive	9	536
PovedaAA23 PovedaAA23 [420]	Partially Preemptive Multi Skill/Mode Resource-Constrained Project Scheduling with Generalized Precedence Relations and Calendars	CP Opt MiniZinc Chuffed	real-world, github, benchmark, industrial instance, real-life	4	y		y		PP-MS- MMRCPSP/max-cal		10	540
SquillaciPR23 SquillaciPR23 [470]	Scheduling Complex Observation Requests for a Constellation of Satellites: Large Neighborhood Search Approaches	Cplex Studio	github, benchmark	2	y		n	-	EOSP	?	11	566
TardivoDFMP23 TardivoDFMP23 [480]	Constraint Propagation on GPU: A Case Study for the Cumulative Constraint	MiniCPP MiniZinc	bitbucket, github, benchmark, real-world	9	PSPLib BL Pack		y	-	RCPSP	cumulative	12	571
TasselGS23 TasselGS23 [481]	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	13	572
WangB23 WangB23 [531]	Dynamic All-Different and Maximal Cliques Constraints for Fixed Job Scheduling	FaCiLe	real-world, random instance	0	(y)		n	[530]	FJS	-	14	599
YuraszeckMC23 YuraszeckMC23 [547]	A competitive constraint programming approach for the group shop scheduling problem	CP Opt	github, benchmark	0	ref		n	-	GSSP	noOverlap endBeforeStart	15	609

Table 4: Manually Defined PAPER Properties

Key	Title (Local Copy)	CP System	Bench	Links	Data Avail	Sol Avail	Code Avail	Based On	Classification	Constraints	a	b
ArmstrongGOS22 ArmstrongGOS22 [21]	A Two-Phase Hybrid Approach for the Hybrid Flexible Flowshop with Transportation Times	CP Opt	real-world, benchmark	0	(y)		-	[20]	$HFFm tt C_{\max}$	endBeforeStart alternative cumulative noOverlap	16	324
BoudreaultSLQ22 BoudreaultSLQ22 [106]	A Constraint Programming Approach to Ship Refit Project Scheduling	MiniZinc Chuffed	benchmark, generated instance, supplementary material, gitlab, real-life, industrial partner, github, real-world	9			y	-	RCPSP	cumulative	17	368
GeitzGSSW22 GeitzGSSW22 [198]	Solving the Extended Job Shop Scheduling Problem with AGVs - Classical and Quantum Approaches	firstCS QUBO	real-life, github, real-world	8	y		n	-	JSSP		18	420
HebrardALLCMR22 HebrardALLCMR22 [232]	An Efficient Approach to Data Transfer Scheduling for Long Range Space Exploration			0							19	440
JungblutK22 JungblutK22 [270]	Optimal Schedules for High-Level Programming Environments on FPGAs with Constraint Programming	MiniZinc	benchmark, github, real-world	0	y		y	-			20	459
LiFJZLL22 LiFJZLL22 [322]	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	21	490
LuoB22 LuoB22 [349]	Packing by Scheduling: Using Constraint Programming to Solve a Complex 2D Cutting Stock Problem	CPO	generated instance, github, real-life, real-world, industry partner, industrial instance	2	n		n	-	2SCSP-FF	pulse alwaysIn forbidExtent stateFunction	22	504
OuelletQ22 OuelletQ22 [401]	A MinCumulative Resource Constraint	Choco	github, benchmark, random instance	1	y		y	-		cumulative minCumulative	23	532
OujanaAYB22 OujanaAYB22 [402]	Solving a realistic hybrid and flexible flow shop scheduling problem through constraint programming: industrial case in a packaging company	CP Opt	benchmark, industrial instance, real-world, real-life	0	n		n	-	HFFS	alternative span noOverlap endBeforeStart alwaysIn noOverlap	24	533
PopovicCGNC22 PopovicCGNC22 [418]	Scheduling the Equipment Maintenance of an Electric Power Transmission Network Using Constraint Programming	CP Opt		0	n		n	-	TMS		25	539
SvancaraB22 SvancaraB22 [475]	Tackling Train Routing via Multi-agent Pathfinding and Constraint-based Scheduling		benchmark, real-world	0							26	568
Teppan22 Teppan22 [484]	Types of Flexible Job Shop Scheduling: A Constraint Programming Experiment	OPL	real-life, benchmark	0	ref		n	-	FJSSP	noOverlap alternative endBeforeStart alternative noOverlap forbidExtent alternative noOverlap	27	573
TouatBT22 TouatBT22 [496]	A Constraint Programming Model for the Scheduling Problem with Flexible Maintenance under Human Resource Constraints	OPL	benchmark, generated instance	0	n		n	-	Single Machine Scheduling		28	579
WinterMMW22 WinterMMW22 [537]	Modeling and Solving Parallel Machine Scheduling with Contamination Constraints in the Agricultural Industry	Cplex Gurobi CP Opt Sim Anneal	supplementary material, real-life, industry partner, zenodo, industrial partner, benchmark	0	y		y	-	PMSP		29	602

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Key	Title (Local Copy)	CP System	Bench	Links	Data Avail	Sol Avail	Code Avail	Based On	Classification	Constraints	a	b
ZhangBB22 ZhangBB22 [555]	Solving Job-Shop Scheduling Problems with QUBO-Based Specialized Hardware		benchmark, generated instance	0							30	610
ZhangJZL22 ZhangJZL22 [554]	Constraint Programming for Modeling and Solving a Hybrid Flow Shop Scheduling Problem	OP Opt	benchmark	0	ref		n	-	HFSP	alternative endBeforeStart noOverlap cumulative	31	611
AntuoriHHEN21 AntuoriHHEN21 [17]	Combining Monte Carlo Tree Search and Depth First Search Methods for a Car Manufacturing Workshop Scheduling Problem	MCTS	gitlab, supplementary material	1	y		y				32	321
ArmstrongGOS21 ArmstrongGOS21 [20]	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	33	323
ArtiguesHQT21 ArtiguesHQT21 [24]	Multi-Mode RCPSP with Safety Margin Maximization: Models and Algorithms			0							34	No
Astrand0F21 Astrand0F21 [28]	Short-Term Scheduling of Production Fleets in Underground Mines Using CP-Based LNS	Gecode	benchmark, real-world, real-life, generated instance	0	ref generated		n	-		-	35	328
BenderWS21 BenderWS21 [75]	Applying Constraint Programming to the Multi-mode Scheduling Problem in Harvest Logistics	CP Opt		9	y		n	-	MRCPSP	noOverlap alternative	36	350
GeibingerKKMMW21 GeibingerKKMMW21 [194]	Physician Scheduling During a Pandemic	MiniZinc	real-world	3	y		n	-		nvalue	37	417
GeibingerMM21 GeibingerMM21 [197]	Constraint Logic Programming for Real-World Test Laboratory Scheduling	clingcon	real-life, github, generated instance, real-world, benchmark	0	y				TLSP RCPSP	disjunctive	38	419
HananKP21 HananKP21 [227]	Two Deadline Reduction Algorithms for Scheduling Dependent Tasks on Parallel Processors	Python	Roadef, generated instance, random instance	1	ref		n	-	$P prec, r_i, d_i *$	-	39	438
HillTV21 HillTV21 [248]	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	40	449
KlankeBYE21 KlankeBYE21 [286]	Combining Constraint Programming and Temporal Decomposition Approaches - Scheduling of an Industrial Formulation Plant	OR-Tools	benchmark, random instance, real-life	0	n		n	-		cumulative circuit noOverlap	41	470
KovacsTKSG21 KovacsTKSG21 [300]	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	42	476
LacknerMMWW21 LacknerMMWW21 [312]	Minimizing Cumulative Batch Processing Time for an Industrial Oven Scheduling Problem	CP Opt Chuffed OR-Tools Gurobi OPL	random instance, industrial partner, benchmark, instance generator, real-life, supplementary material	3	y		y		OSP		43	485

Table 4: Manually Defined PAPER Properties

Key	Title (Local Copy)	CP System	Bench	Links	Data Avail	Sol Avail	Code Avail	Based On	Classification	Constraints	a	b
AntuoriHHEN20 AntuoriHHEN20 [16]	Leveraging Reinforcement Learning, Constraint Programming and Local Search: A Case Study in Car Manufacturing		random instance, generated instance, gitlab, benchmark, industrial instance	4							44	320
BarzegaranZP20 BarzegaranZP20 [52]	Quality-Of-Control-Aware Scheduling of Communication in TSN-Based Fog Computing Platforms Using Constraint Programming	OR-Tools		5	n		n	-	FCP		45	340
GodetLHS20 GodetLHS20 [205]	Using Approximation within Constraint Programming to Solve the Parallel Machine Scheduling Problem with Additional Unit Resources	MiniZinc Choco Chuffed	github, real-life, benchmark, generated instance	0	JSON		y	-	PMSPAUR	disjunctive cumulative alldifferent enqueueCstr approxCstr groupCumulative	46	426
GroleazNS20 GroleazNS20 [218]	Solving the Group Cumulative Scheduling Problem with CPO and ACO	CP Opt ACO	benchmark, industrial instance	0	-		-	[218]	GCSP		47	433
GroleazNS20a GroleazNS20a [217]	ACO with automatic parameter selection for a scheduling problem with a group cumulative constraint	CPO ACO	industrial partner, benchmark	0	y		n	-	GCSP	groupCumulative	48	434
Mercier-AubinGQ20 Mercier-AubinGQ20 [365]	Leveraging Constraint Scheduling: A Case Study to the Textile Industry	MiniZinc Chuffed	industrial instance, industrial partner	1	a		a	-		circuit cumulative	49	513
NattafM20 NattafM20 [384]	Filtering Rules for Flow Time Minimization in a Parallel Machine Scheduling Problem	Cplex CP Opt	benchmark, industrial instance	7	-		-	[354]	PTC	alternative noOverlap	50	524
TangB20 TangB20 [478]	CP and Hybrid Models for Two-Stage Batching and Scheduling	Cplex CP Opt	real-world	0	n		n	-	2BPHFSP	span alwaysIn	51	570
WangB20 WangB20 [530]	Global Propagation of Transition Cost for Fixed Job Scheduling	FaCiLe	github	0	y		n	-	FJS	-	52	598
WessenCS20 WessenCS20 [535]	Scheduling of Dual-Arm Multi-tool Assembly Robots and Workspace Layout Optimization	Gecode	real-world	10	n		n	-		circuit alldifferent	53	601
BadicaBIL19 BadicaBIL19 [32]	Exploring the Space of Block Structured Scheduling Processes Using Constraint Logic Programming	ECLiPSe	github	0	dead		dead	-			54	330
BehrensLM19 BehrensLM19 [67]	A Constraint Programming Approach to Simultaneous Task Allocation and Motion Scheduling for Industrial Dual-Arm Manipulation Tasks	OR-Tools	real-world, github	0	y		y	-	STAAMS		55	346
BogaerdTW19 BogaerdTW19 [510]	Lower Bounds for Uniform Machine Scheduling Using Decision Diagrams	custom Cplex	benchmark	4	n		n	-	Multi Machine Scheduling	noOverlap	56	360
ColT19 ColT19 [135]	Industrial Size Job Shop Scheduling Tackled by Present Day CP Solvers	CP Opt OR-Tools	github, benchmark, real-world	2	y		y	-	JSSP	noOverlap	57	385
FrimodigS19 FrimodigS19 [182]	Models for Radiation Therapy Patient Scheduling	Mini-Zinc Gecode Cplex	benchmark, real-world	1	n		n	-		cumulative regular bin-packing	58	408
FrohnertTR19 FrohnertTR19 [183]	Casual Employee Scheduling with Constraint Programming and Metaheuristics		benchmark, real-world	0							59	409
GalleguillosKSB19 GalleguillosKSB19 [185]	Constraint Programming-Based Job Dispatching for Modern HPC Applications	OR-Tools		5			y		on-line dispatch		60	411

Table 4: Manually Defined PAPER Properties

Key	Title (Local Copy)	CP System	Bench	Links	Data Avail	Sol Avail	Code Avail	Based On	Classification	Constraints	a	b
GeibingerMM19 GeibingerMM19 [196]	Investigating Constraint Programming for Real World Industrial Test Laboratory Scheduling		real-life, generated instance, industrial partner, real-world, benchmark	3							61	418
KucukY19 KucukY19 [307]	A Constraint Programming Approach for Agile Earth Observation Satellite Scheduling Problem		benchmark, generated instance	0							62	481
LiuLH19 LiuLH19 [330]	Solving the Talent Scheduling Problem by Parallel Constraint Programming		CSPLib, benchmark	0							63	498
MalapertN19 MalapertN19 [354]	A New CP-Approach for a Parallel Machine Scheduling Problem with Time Constraints on Machine Qualifications		generated instance, benchmark, industrial instance, Roadef	3							64	509
MurinR19 MurinR19 [376]	Scheduling of Mobile Robots Using Constraint Programming	CP Opt Cplex OPL	real-life, benchmark, github	3	y		y		JSPT	endBeforeStart alternative noOverlap	65	520
ParkUJR19 ParkUJR19 [408]	Developing a Production Scheduling System for Modular Factory Using Constraint Programming		real-world	0							66	534
Tom19 Tom19 [493]	Fuzzy Multi-Constraint Programming Model for Weekly Meals Scheduling		real-world	0							67	578
YangSS19 YangSS19 [543]	Time Table Edge Finding with Energy Variables		generated instance	1							68	607
AntunesABDEGGOL18 AntunesABDEGGOL18 [14]	Assigning and Scheduling Service Visits in a Mixed Urban/Rural Setting			0							69	No
ArbaouiY18 ArbaouiY18 [19]	Solving the Unrelated Parallel Machine Scheduling Problem with Additional Resources Using Constraint Programming		benchmark	0							70	322
AstrandJZ18 AstrandJZ18 [29]	Fleet Scheduling in Underground Mines Using Constraint Programming			0							71	329
BenediktSMVH18 BenediktSMVH18 [78]	Energy-Aware Production Scheduling with Power-Saving Modes	CPO Gurobi	github, random instance, generated instance	1	y		y	-	Energy Aware Production Scheduling		72	351
CappartTSR18 CappartTSR18 [117]	A Constraint Programming Approach for Solving Patient Transportation Problems		bitbucket, CSPLib, real-life	1							73	373
DemirovicS18 DemirovicS18 [152]	Constraint Programming for High School Timetabling: A Scheduling-Based Model with Hot Starts		real-world, benchmark	5							74	392
He0GLW18 He0GLW18 [231]	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		75	439
HoYCLLC18 HoYCLLC18 [249]	A Platform for Dynamic Optimal Nurse Scheduling Based on Integer Linear Programming along with Multiple Criteria Constraints		real-world	0							76	450
KameugneFGOQ18 KameugneFGOQ18 [275]	Horizontally Elastic Not-First/Not-Last Filtering Algorithm for Cumulative Resource Constraint		benchmark, real-world	0							77	463
Laborie18a Laborie18a [310]	An Update on the Comparison of MIP, CP and Hybrid Approaches for Mixed Resource Allocation and Scheduling		real-life, benchmark, real-world	0							78	484



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MusliuSS18 MusliuSS18 [379]	Solver Independent Rotating Workforce Scheduling		generated instance, benchmark, real-life	2							79	523
NishikawaSTT18 NishikawaSTT18 [387]	Scheduling of Malleable Fork-Join Tasks with Constraint Programming		real-world, benchmark	0							80	526
NishikawaSTT18a NishikawaSTT18a [388]	Scheduling of Malleable Tasks Based on Constraint Programming		real-world, benchmark, real-life	0							81	527
OuelletQ18 OuelletQ18 [400]	A $O(n \log^2 n)$ Checker and $O(n^2 \log n)$ Filtering Algorithm for the Energetic Reasoning		benchmark, RoaDef	0							82	531
RiahiNS018 RiahiNS018 [430]	Local Search for Flowshops with Setup Times and Blocking Constraints		real-world, real-life, benchmark	0							83	547
Tesch18 Tesch18 [488]	Improving Energetic Propagations for Cumulative Scheduling		RoaDef	0							84	575
BofillCSV17 BofillCSV17 [92]	An Efficient SMT Approach to Solve MRCPSP/max Instances with Tight Constraints on Resources		benchmark	2							85	357
CappartS17 CappartS17 [116]	Rescheduling Railway Traffic on Real Time Situations Using Time-Interval Variables	CPO	bitbucket, random instance, real-life	1	y		n	-	Rescheduling Railway Traffic		86	372
CohenHB17 CohenHB17 [133]	(I Can Get) Satisfaction: Preference-Based Scheduling for Concert-Goers at Multi-venue Music Festivals			12							87	384
GelainPRVW17 GelainPRVW17 [199]	A Local Search Approach for Incomplete Soft Constraint Problems: Experimental Results on Meeting Scheduling Problems		CSPLib, real-life, benchmark	2							88	421
GoldwaserS17 GoldwaserS17 [208]	Optimal Torpedo Scheduling	Chuffed Gurobi	instance generator, github, generated instance	4	y		n	-	Torpedo Scheduling		89	427
Hooker17 Hooker17 [256]	Job Sequencing Bounds from Decision Diagrams		benchmark, random instance	0							90	454
KletzanderM17 KletzanderM17 [287]	A Multi-stage Simulated Annealing Algorithm for the Torpedo Scheduling Problem			2							91	471
LiuCGM17 LiuCGM17 [331]	NightSplitter: A Scheduling Tool to Optimize (Sub)group Activities	Chuffed OR-Tools HCSP SA	github	11	n			-	NightSplit		92	496
Madi-WambaLOBM17 Madi-WambaLOBM17 [351]	Green Energy Aware Scheduling Problem in Virtualized Datacenters		real-world	0							93	507
MossigeGSMC17 MossigeGSMC17 [372]	Time-Aware Test Case Execution Scheduling for Cyber-Physical Systems		industrial partner, real-world, benchmark, random instance, CSPLib, generated instance	4							94	517
Pralet17 Pralet17 [421]	An Incomplete Constraint-Based System for Scheduling with Renewable Resources		benchmark	1							95	541
TranVNB17a TranVNB17a [504]	Robots in Retirement Homes: Applying Off-the-Shelf Planning and Scheduling to a Team of Assistive Robots (Extended Abstract)		real-world	0							96	584
YoungFS17 YoungFS17 [545]	Constraint Programming Applied to the Multi-Skill Project Scheduling Problem		benchmark, github, instance generator	6							97	608

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Key	Title (Local Copy)	CP System	Bench	Links	Data Avail	Sol Avail	Code Avail	Based On	Classification	Constraints	a	b
BonfiettiZLM16 BonfiettiZLM16 [102]	The Multirate Resource Constraint		generated instance, github, industrial instance, benchmark, real-world	1							98	366
BoothNB16 BoothNB16 [103]	A Constraint Programming Approach to Multi-Robot Task Allocation and Scheduling in Retirement Homes		real-world	0							99	367
BridiLBBM16 BridiLBBM16 [110]	DARDIS: Distributed And Randomized Dispatching and Scheduling			0							100	369
CauwelaertDMS16 CauwelaertDMS16 [123]	Efficient Filtering for the Unary Resource with Family-Based Transition Times		real-life, bit-bucket, benchmark	2							101	376
FontaineMH16 FontaineMH16 [178]	Parallel Composition of Scheduling Solvers		benchmark	2							102	405
GilesH16 GilesH16 [201]	Solving a Supply-Delivery Scheduling Problem with Constraint Programming			0							103	423
GingrasQ16 GingrasQ16 [202]	Generalizing the Edge-Finder Rule for the Cumulative Constraint		benchmark	0							104	424
HechingH16 HechingH16 [235]	Scheduling Home Hospice Care with Logic-Based Benders Decomposition		real-world	0							105	442
JelinekB16 JelinekB16 [268]	Using Constraint Logic Programming to Schedule Solar Array Operations on the International Space Station		real-life	2							106	458
LimHTB16 LimHTB16 [325]	Online HVAC-Aware Occupancy Scheduling with Adaptive Temperature Control		real-world	4							107	492
LuoVLBM16 LuoVLBM16 [348]	Using Metric Temporal Logic to Specify Scheduling Problems			0							108	505
Madi-WambaB16 Madi-WambaB16 [350]	The TaskIntersection Constraint		real-world, benchmark, random instance, generated instance	3							109	506
SchuttS16 SchuttS16 [450]	Explaining Producer/Consumer Constraints		benchmark	1							110	555
SzerediS16 SzerediS16 [476]	Modelling and Solving Multi-mode Resource-Constrained Project Scheduling		benchmark	2							111	569
Tesch16 Tesch16 [487]	A Nearly Exact Propagation Algorithm for Energetic Reasoning in $\mathcal{O}(n^2 \log n)$		Roadef	1							112	574
TranDRFWOVB16 TranDRFWOVB16 [500]	A Hybrid Quantum-Classical Approach to Solving Scheduling Problems			0							113	582
TranWDRFOVB16 TranWDRFOVB16 [505]	Explorations of Quantum-Classical Approaches to Scheduling a Mars Lander Activity Problem		benchmark	0							114	585
BartakV15 BartakV15 [50]	Reactive Recovery from Machine Breakdown in Production Scheduling with Temporal Distance and Resource Constraints		real-world, real-life	0							115	338
BofillGSV15 BofillGSV15 [94]	MaxSAT-Based Scheduling of B2B Meetings		industrial instance	3							116	359
BurtLPS15 BurtLPS15 [113]	Scheduling with Fixed Maintenance, Shared Resources and Nonlinear Feedrate Constraints: A Mine Planning Case Study		real-world, benchmark, industry partner	5							117	371

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DejemeppeCS15 DejemeppeCS15 [149]	The Unary Resource with Transition Times		real-world, bitbucket, gen- erated instance, benchmark	4							118	390
EvenSH15 EvenSH15 [168]	A Constraint Programming Approach for Non-preemptive Evacuation Scheduling		real-life, real- world	0							119	403
GayHLS15 GayHLS15 [189]	Conflict Ordering Search for Scheduling Problems		benchmark, bit- bucket	0							120	413
GayHS15 GayHS15 [190]	Simple and Scalable Time-Table Filtering for the Cumulative Constraint		bitbucket	2							121	414
GayHS15a GayHS15a [191]	Time-Table Disjunctive Reasoning for the Cumulative Constraint		benchmark, bitbucket, real- world	0							122	415
KreterSS15 KreterSS15 [301]	Modeling and Solving Project Scheduling with Calendars		benchmark	3							123	479
LimBTBB15 LimBTBB15 [326]	Large Neighborhood Search for Energy Aware Meeting Scheduling in Smart Buildings		benchmark	3							124	491
LombardiBM15 LombardiBM15 [334]	Deterministic Estimation of the Expected Makespan of a POS Under Duration Uncertainty		benchmark, real-world	0							125	499
MelgarejoLS15 MelgarejoLS15 [8]	A Time-Dependent No-Overlap Constraint: Application to Urban Delivery Problems		real-world, benchmark	1							126	512
MurphyMB15 MurphyMB15 [377]	Design and Evaluation of a Constraint-Based Energy Saving and Scheduling Recommender System		real-world	3							127	521
PesantRR15 PesantRR15 [412]	A Comparative Study of MIP and CP Formulations for the B2B Scheduling Optimization Problem			1							128	537
PraletLJ15 PraletLJ15 [422]	Scheduling Running Modes of Satellite Instruments Using Constraint-Based Local Search			0							129	542
SialaAH15 SialaAH15 [460]	Two Clause Learning Approaches for Disjunctive Scheduling		github, bench- mark	5							130	560
VilimLS15 VilimLS15 [524]	Failure-Directed Search for Constraint-Based Scheduling		benchmark	8							131	597
ZhouGL15 ZhouGL15 [561]	On complex hybrid flexible flowshop scheduling problems based on constraint programming		real-world	0							132	614
AlesioNBG14 AlesioNBG14 [156]	Worst-Case Scheduling of Software Tasks - A Constraint Optimization Model to Support Performance Testing		benchmark	2							133	318
BartoliniBBLM14 BartoliniBBLM14 [51]	Proactive Workload Dispatching on the EURORA Supercomputer			4							134	339
BessiereHMQW14 BessiereHMQW14 [83]	Buffered Resource Constraint: Algorithms and Complexity		benchmark, real-life	0							135	354
BofillEGPSV14 BofillEGPSV14 [93]	Scheduling B2B Meetings		industrial in- stance	6							136	358
BonfiettiLM14 BonfiettiLM14 [100]	Disregarding Duration Uncertainty in Partial Order Schedules? Yes, We Can!		real-world, benchmark	2							137	364
DejemeppeD14 DejemeppeD14 [150]	Continuously Degrading Resource and Interval Dependent Activity Durations in Nuclear Medicine Patient Scheduling		bitbucket	0							138	391
DerrienP14 DerrienP14 [154]	A New Characterization of Relevant Intervals for Energetic Reasoning		random instance	0							139	393
DerrienPZ14 DerrienPZ14 [155]	A Declarative Paradigm for Robust Cumulative Scheduling		benchmark, ran- dom instance, real-world	0							140	394

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DoulabiRP14 DoulabiRP14 [160]	A Constraint Programming-Based Column Generation Approach for Operating Room Planning and Scheduling			0							141	397
FriedrichFMRSS14 FriedrichFMRSS14 [181]	Representing Production Scheduling with Constraint Answer Set Programming			0							142	No
GaySS14 GaySS14 [192]	Continuous Casting Scheduling with Constraint Programming		real-life, CSPLib	0							143	416
HoundjiSWD14 HoundjiSWD14 [261]	The StockingCost Constraint		bitbucket, generated instance	0							144	456
KoschB14 KoschB14 [292]	A New MIP Model for Parallel-Batch Scheduling with Non-identical Job Sizes		benchmark	0							145	473
LipovetzkyBPS14 LipovetzkyBPS14 [329]	Planning for Mining Operations with Time and Resource Constraints		industrial partner, real-life, industry partner, real-world, benchmark, generated instance	0							146	495
LouieVNB14 LouieVNB14 [345]	An autonomous assistive robot for planning, scheduling and facilitating multi-user activities			0							147	No
BonfiettiLM13 BonfiettiLM13 [99]	De-Cycling Cyclic Scheduling Problems			0							148	363
ChuGNSW13 ChuGNSW13 [128]	On the Complexity of Global Scheduling Constraints under Structural Restrictions			0							149	379
CireCH13 CireCH13 [130]	Mixed Integer Programming vs. Logic-Based Benders Decomposition for Planning and Scheduling	CP Opt Cplex		1	dead		n	-			150	381
GuSS13 GuSS13 [220]	A Lagrangian Relaxation Based Forward-Backward Improvement Heuristic for Maximising the Net Present Value of Resource-Constrained Projects	Chuffed	benchmark	1	dead			-	RCPSPDC	cumulative maxNVPPProp	151	436
HeinzKB13 HeinzKB13 [238]	Recent Improvements Using Constraint Integer Programming for Resource Allocation and Scheduling			0							152	444
KelarevaTK13 KelarevaTK13 [280]	CP Methods for Scheduling and Routing with Time-Dependent Task Costs	MiniZinc CPX G12FD SICStus Choco	real-world	5	ref		-	-	LSFRP BPCTOP	alldifferent alldifferentExcept	153	466
LetortCB13 LetortCB13 [320]	A Synchronized Sweep Algorithm for the <i>k</i> -dimensional cumulative Constraint		Roadef, benchmark, random instance	2	PSPLib		-	-	RCPSP	cumulative kDimensionalCum	154	489
LombardiM13 LombardiM13 [341]	A Min-Flow Algorithm for Minimal Critical Set Detection in Resource Constrained Project Scheduling			0							155	503
OuelletQ13 OuelletQ13 [399]	Time-Table Extended-Edge-Finding for the Cumulative Constraint		benchmark	1							156	530
SchuttFS13 SchuttFS13 [444]	Scheduling Optional Tasks with Explanation		benchmark	1							157	552
SchuttFS13a SchuttFS13a [443]	Explaining Time-Table-Edge-Finding Propagation for the Cumulative Resource Constraint	Mercury G12	benchmark	5	PSPLib AT BL Pack KSD15D PackD		-	-	RCPSP	cumulative	158	553
TranTDB13 TranTDB13 [502]	Hybrid Queueing Theory and Scheduling Models for Dynamic Environments with Sequence-Dependent Setup Times		real-world	0							159	583

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BillautHL12 BillautHL12 [85]	Complete Characterization of Near-Optimal Sequences for the Two-Machine Flow Shop Scheduling Problem		random instance	0							160	355
BonfiettiLBM12 BonfiettiLBM12 [97]	Global Cyclic Cumulative Constraint		benchmark	3							161	362
BonfiettiM12 BonfiettiM12 [101]	A Constraint-based Approach to Cyclic Resource-Constrained Scheduling Problem		industrial instance	0							162	365
GuSW12 GuSW12 [221]	Maximising the Net Present Value of Large Resource-Constrained Projects		benchmark	2							163	437
HeinzB12 HeinzB12 [237]	Reconsidering Mixed Integer Programming and MIP-Based Hybrids for Scheduling			0							164	443
IfrimOS12 IfrimOS12 [264]	Properties of Energy-Price Forecasts for Scheduling		real-life	1							165	457
LetortBC12 LetortBC12 [319]	A Scalable Sweep Algorithm for the cumulative Constraint		Roadef, benchmark, random instance	2							166	488
RendlPHPR12 RendlPHPR12 [429]	Hybrid Heuristics for Multimodal Homecare Scheduling		real-world, CSPLib, benchmark	2							167	546
SchuttCSW12 SchuttCSW12 [442]	Maximising the Net Present Value for Resource-Constrained Project Scheduling		benchmark	1							168	551
SerraNM12 SerraNM12 [453]	The Offshore Resources Scheduling Problem: Detailing a Constraint Programming Approach		benchmark, real-world	4							169	558
SimoninAHL12 SimoninAHL12 [461]	Scheduling Scientific Experiments on the Rosetta/Philae Mission	MOST Ilog Scheduler		0	n		n	-		cumulative dataTransfer	170	561
TranB12 TranB12 [499]	Logic-based Benders Decomposition for Alternative Resource Scheduling with Sequence Dependent Setups		benchmark	0							171	581
ZhangLS12 ZhangLS12 [558]	Model and Solution for Hot Strip Rolling Scheduling Problem Based on Constraint Programming Method			0							172	612
BajestaniB11 BajestaniB11 [33]	Scheduling an Aircraft Repair Shop			0							173	331
BonfiettiLBM11 BonfiettiLBM11 [96]	A Constraint Based Approach to Cyclic RCPSP		generated instance, industrial instance, benchmark	3							174	361
ChapadosJR11 ChapadosJR11 [127]	Retail Store Workforce Scheduling by Expected Operating Income Maximization			0							175	378
ClercqPBJ11 ClercqPBJ11 [131]	Filtering Algorithms for Discrete Cumulative Problems with Overloads of Resource		benchmark	1							176	382
EdisO11 EdisO11 [162]	Parallel Machine Scheduling with Additional Resources: A Lagrangian-Based Constraint Programming Approach			0							177	398
GrimesH11 GrimesH11 [213]	Models and Strategies for Variants of the Job Shop Scheduling Problem		benchmark	1							178	431
HeinzS11 HeinzS11 [240]	Explanations for the Cumulative Constraint: An Experimental Study		benchmark	1							179	445
HermenierDL11 HermenierDL11 [247]	Bin Repacking Scheduling in Virtualized Datacenters			1							180	448
KameugneFSN11 KameugneFSN11 [277]	A Quadratic Edge-Finding Filtering Algorithm for Cumulative Resource Constraints		benchmark	1							181	465
LahimerLH11 LahimerLH11 [314]	Climbing Depth-Bounded Adjacent Discrepancy Search for Solving Hybrid Flow Shop Scheduling Problems with Multiprocessor Tasks		benchmark	2							182	486

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LombardiBMB11 LombardiBMB11 [335]	Precedence Constraint Posting for Cyclic Scheduling Problems		benchmark, industrial instance, real-life	0							183	500
Vilim11 Vilim11 [521]	Timetable Edge Finding Filtering Algorithm for Discrete Cumulative Resources		benchmark	1							184	595
ZibranR11 ZibranR11 [563]	Conflict-Aware Optimal Scheduling of Code Clone Refactoring: A Constraint Programming Approach			0							185	616
ZibranR11a ZibranR11a [564]	A Constraint Programming Approach to Conflict-Aware Optimal Scheduling of Prioritized Code Clone Refactoring			0							186	617
BertholdHLS10 BertholdHLS10 [82]	A Constraint Integer Programming Approach for Resource-Constrained Project Scheduling			1							187	353
CobanH10 CobanH10 [132]	Single-Facility Scheduling over Long Time Horizons by Logic-Based Benders Decomposition			0							188	383
Davenport10 Davenport10 [141]	Integrated Maintenance Scheduling for Semiconductor Manufacturing			0							189	388
GrimesH10 GrimesH10 [212]	Job Shop Scheduling with Setup Times and Maximal Time-Lags: A Simple Constraint Programming Approach		benchmark	1							190	430
LombardiM10 LombardiM10 [338]	Constraint Based Scheduling to Deal with Uncertain Durations and Self-Timed Execution		real-world, benchmark	1							191	502
MakMS10 MakMS10 [352]	A constraint programming approach for production scheduling of multi-period virtual cellular manufacturing systems			0							192	508
SchuttW10 SchuttW10 [451]	A New $O(n^2 \log n)$ Not-First/Not-Last Pruning Algorithm for Cumulative Resource Constraints		benchmark	1							193	556
SunLYL10 SunLYL10 [473]	Scheduling Optimization Techniques for FlexRay Using Constraint-Programming			0							194	567
Acuna-AgostMFG09 Acuna-AgostMFG09 [5]	Constraint Programming and Mixed Integer Linear Programming for Rescheduling Trains under Disrupted Operations		Roadef	1							195	316
AronssonBK09 AronssonBK09 [22]	MILP formulations of cumulative constraints for railway scheduling - A comparative study		real-world, real-life	0							196	325
Baptiste09 Baptiste09 [36]	Constraint-Based Schedulers, Do They Really Work?			0							197	332
GrimesHM09 GrimesHM09 [215]	Closing the Open Shop: Contradicting Conventional Wisdom		benchmark	0							198	432
Laborie09 Laborie09 [309]	IBM ILOG CP Optimizer for Detailed Scheduling Illustrated on Three Problems		real-world, benchmark	2							199	483
LombardiM09 LombardiM09 [336]	A Precedence Constraint Posting Approach for the RCPSP with Time Lags and Variable Durations		real-world, instance generator	1							200	501
MonetteDH09 MonetteDH09 [369]	Just-In-Time Scheduling with Constraint Programming		benchmark	0							201	516
SchuttFSW09 SchuttFSW09 [445]	Why Cumulative Decomposition Is Not as Bad as It Sounds		benchmark, real-world	1							202	554
ThiruvadyBME09 ThiruvadyBME09 [489]	Hybridizing Beam-ACO with Constraint Programming for Single Machine Job Scheduling			0							203	576
Vilim09 Vilim09 [519]	Edge Finding Filtering Algorithm for Discrete Cumulative Resources in $O(kn \log n)$			0							204	593
Vilim09a Vilim09a [520]	Max Energy Filtering Algorithm for Discrete Cumulative Resources			1							205	594

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BarlattCG08	A Hybrid Approach for Solving Shift-Selection and Task-Sequencing Problems		real-world	1							206	335
BarlattCG08 [43]												
BeldiceanuCP08	New Filtering for the cumulative Constraint in the Context of Non-Overlapping Rectangles		benchmark	0							207	348
BeldiceanuCP08 [72]												
DoomsH08	Gap Reduction Techniques for Online Stochastic Project Scheduling			0							208	396
DoomsH08 [159]												
HentenryckM08	The Steel Mill Slab Design Problem Revisited		CSPlib	0							209	447
HentenryckM08 [246]												
LauLN08	A Combinatorial Auction Framework for Solving Decentralized Scheduling Problems (Extended Abstract)		benchmark, real-world	0							210	487
LauLN08 [316]												
MouraSCL08	Planning and Scheduling the Operation of a Very Large Oil Pipeline Network			0							211	518
MouraSCL08 [374]												
MouraSCL08a	Heuristics and Constraint Programming		real-world, benchmark	0							212	519
MouraSCL08a [373]	Hybridizations for a Real Pipeline Planning and Scheduling Problem											
PoderB08	Filtering for a Continuous Multi-Resources cumulative Constraint with Resource Consumption and Production			0							213	538
PoderB08 [414]												
WatsonB08	A Hybrid Constraint Programming / Local Search Approach to the Job-Shop Scheduling Problem		benchmark, real-world	1							214	600
WatsonB08 [534]												
AkkerDH07	A Column Generation Based Destructive Lower Bound for Resource Constrained Project Scheduling Problems			0							215	317
AkkerDH07 [509]												
BeldiceanuP07	A Continuous Multi-resources <i>cumulative</i> Constraint with Positive-Negative Resource Consumption-Production			0							216	349
BeldiceanuP07 [73]												
DavenportKRSH07	An Application of Constraint Programming to Generating Detailed Operations Schedules for Steel Manufacturing			0							217	389
DavenportKRSH07 [142]												
GarganiR07	An Efficient Model and Strategy for the Steel Mill Slab Design Problem		real-life, CSPlib	0							218	412
GarganiR07 [186]												
HoeveGSL07	Optimal Multi-Agent Scheduling with Constraint Programming		benchmark	0							219	451
HoeveGSL07 [512]												
KeriK07 KeriK07 [282]	Computing Tight Time Windows for RCPSPWET with the Primal-Dual Method			2							220	467
KovacsB07	A Global Constraint for Total Weighted Completion Time		benchmark	0							221	474
KovacsB07 [293]												
KrogtLPHJ07	Scheduling for Cellular Manufacturing		real-world	0							222	480
KrogtLPHJ07 [511]												
Limtanyakul07	Scheduling of Tests on Vehicle Prototypes Using Constraint and Integer Programming		real-life	0							223	494
Limtanyakul07 [327]												
MonetteDD07	A Position-Based Propagator for the Open-Shop Problem		benchmark	0							224	515
MonetteDD07 [368]												
NethercoteSBBDT07	MiniZinc: Towards a Standard CP Modelling Language		CSPlib, bench- mark	1							225	525
NethercoteS-BBDT07 [385]												
RossiTHP07	Replenishment Planning for Stochastic Inventory Systems with Shortage Cost			0							226	549
RossiTHP07 [434]												
Beck06 Beck06 [54]	An Empirical Study of Multi-Point Constructive Search for Constraint-Based Scheduling		benchmark	0							227	341
BeniniBGM06	Allocation, Scheduling and Voltage Scaling on Energy Aware MPSoCs		real-life	0							228	352
BeniniBGM06 [79]												

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Key	Title (Local Copy)	CP System	Bench	Links	Data Avail	Sol Avail	Code Avail	Based On	Classification	Constraints	a	b
GomesHS06 GomesHS06 [211]	Constraint Programming for Distributed Planning and Scheduling		real-life	0							229	429
KhemmoudjPB06 KhemmoudjPB06 [284]	When Constraint Programming and Local Search Solve the Scheduling Problem of Electricité de France Nuclear Power Plant Outages		real-world	0							230	468
KovacsV06 KovacsV06 [299]	Progressive Solutions: A Simple but Efficient Dominance Rule for Practical RCPSP		industrial partner, benchmark, generated instance	0							231	478
LiuJ06 LiuJ06 [332]	LP-TPOP: Integrating Planning and Scheduling Through Constraint Programming			0							232	497
QuSN06 QuSN06 [427]	Using Constraint Programming to Achieve Optimal Prefetch Scheduling for Dependent Tasks on Run-Time Reconfigurable Devices			0							233	544
AbrilSB05 AbrilSB05 [4]	Distributed Constraints for Large-Scale Scheduling Problems			0							234	315
ArtiouchineB05 ArtiouchineB05 [26]	Inter-distance Constraint: An Extension of the All-Different Constraint for Scheduling Equal Length Jobs		generated instance, random instance	0							235	327
BeckW05 BeckW05 [63]	Proactive Algorithms for Scheduling with Probabilistic Durations			0							236	345
CarchraeBF05 CarchraeBF05 [118]	Methods to Learn Abstract Scheduling Models			0							237	374
ChuX05 ChuX05 [129]	A Hybrid Algorithm for a Class of Resource Constrained Scheduling Problems			0							238	380
DilkinaDH05 DilkinaDH05 [157]	Extending Systematic Local Search for Job Shop Scheduling Problems			0							239	395
FortinZDF05 FortinZDF05 [179]	Interval Analysis in Scheduling			0							240	406
FrankK05 FrankK05 [180]	Mixed Discrete and Continuous Algorithms for Scheduling Airborne Astronomy Observations		benchmark	0							241	407
Geske05 Geske05 [200]	Railway Scheduling with Declarative Constraint Programming		real-life	0							242	422
GodardLN05 GodardLN05 [203]	Randomized Large Neighborhood Search for Cumulative Scheduling		benchmark	0							243	425
HebrardTW05 HebrardTW05 [234]	Computing Super-Schedules			0							244	441
Hooker05a Hooker05a [253]	Planning and Scheduling to Minimize Tardiness			0							245	453
KovacsEKV05 KovacsEKV05 [296]	Proterv-II: An Integrated Production Planning and Scheduling System		real-life	0							246	475
MoffittPP05 MoffittPP05 [366]	Augmenting Disjunctive Temporal Problems with Finite-Domain Constraints			0							247	514
QuirogaZH05 QuirogaZH05 [428]	A Constraint Programming Approach to Tool Allocation and Resource Scheduling in FMS			0							248	545
SchuttWS05 SchuttWS05 [452]	Not-First and Not-Last Detection for Cumulative Scheduling in $O(n^3 \log n)$		benchmark	0							249	557
Vilim05 Vilim05 [518]	Computing Explanations for the Unary Resource Constraint		benchmark	4							250	592
Wolfs05 Wolfs05 [539]	$O(n \log n)$ Overload Checking for the Cumulative Constraint and Its Application		real-world	0							251	604
WuBB05 WuBB05 [541]	Scheduling with Uncertain Start Dates		benchmark	0							252	606



Table 4: Manually Defined PAPER Properties

Key	Title (Local Copy)	CP System	Bench	Links	Data Avail	Sol Avail	Code Avail	Based On	Classification	Constraints	a	b
ArtiguesBF04 ArtiguesBF04 [23]	A New Exact Solution Algorithm for the Job Shop Problem with Sequence-Dependent Setup Times		benchmark	0							253	326
BeckW04 BeckW04 [62]	Job Shop Scheduling with Probabilistic Durations			0							254	344
HentenryckM04 HentenryckM04 [245]	Scheduling Abstractions for Local Search		benchmark	0							255	446
Hooker04 Hooker04 [251]	A Hybrid Method for Planning and Scheduling		random instance	0							256	452
KovacsV04 KovacsV04 [298]	Completable Partial Solutions in Constraint Programming and Constraint-Based Scheduling		industrial partner, benchmark, real-life	0							257	477
LimRX04 LimRX04 [324]	Solving the Crane Scheduling Problem Using Intelligent Search Schemes		generated instance	0							258	493
MaraveliasG04 MaraveliasG04 [357]	Using MILP and CP for the Scheduling of Batch Chemical Processes			0							259	510
Sadykov04 Sadykov04 [437]	A Hybrid Branch-And-Cut Algorithm for the One-Machine Scheduling Problem			0							260	550
Vilim04 Vilim04 [517]	$O(n \log n)$ Filtering Algorithms for Unary Resource Constraint		benchmark	1							261	591
VilimBC04 VilimBC04 [522]	Unary Resource Constraint with Optional Activities		benchmark, real-life	0							262	596
VillaverdeP04 VillaverdeP04 [525]	An Investigation of Scheduling in Distributed Constraint Logic Programming			0							263	No
WolinskiKG04 WolinskiKG04 [540]	A Constraints Programming Approach to Communication Scheduling on SoPC Architectures			0							264	605
BeckPS03 BeckPS03 [60]	Vehicle Routing and Job Shop Scheduling: What's the Difference?		benchmark, real-world	0							265	343
DannaP03 DannaP03 [139]	Structured vs. Unstructured Large Neighborhood Search: A Case Study on Job-Shop Scheduling Problems with Earliness and Tardiness Costs		benchmark	0							266	387
Kumar03 Kumar03 [306]	Incremental Computation of Resource-Envelopes in Producer-Consumer Models			0							267	482
OddiPCC03 OddiPCC03 [397]	Generating High Quality Schedules for a Spacecraft Memory Downlink Problem		benchmark	0							268	529
ValleMGT03 ValleMGT03 [508]	On Selecting and Scheduling Assembly Plans Using Constraint Programming		real-life	0							269	586
Vilim03 Vilim03 [516]	Computing Explanations for Global Scheduling Constraints			0							270	590
Wolf03 Wolf03 [538]	Pruning while Sweeping over Task Intervals		benchmark	0							271	603
Bartak02 Bartak02 [45]	Visopt ShopFloor: On the Edge of Planning and Scheduling		real-life	0							272	336
Bartak02a Bartak02a [44]	Visopt ShopFloor: Going Beyond Traditional Scheduling		benchmark, real-life	0							273	337
BeldiceanuC02 BeldiceanuC02 [70]	A New Multi-resource cumulatives Constraint with Negative Heights		real-life, random instance, benchmark	0							274	347
ElkhyariGJ02 ElkhyariGJ02 [164]	Conflict-Based Repair Techniques for Solving Dynamic Scheduling Problems			0							275	400
ElkhyariGJ02a ElkhyariGJ02a [165]	Solving Dynamic Resource Constraint Project Scheduling Problems Using New Constraint Programming Tools		benchmark, real-life	0							276	401

Table 4: Manually Defined PAPER Properties

Key	Title (Local Copy)	CP System	Bench	Links	Data Avail	Sol Avail	Code Avail	Based On	Classification	Constraints	a	b
HookerY02	A Relaxation of the Cumulative Constraint			0							277	455
HookerY02 [260]												
KamarainenS02	Local Probing Applied to Scheduling		real-world,	2							278	462
KamarainenS02 [273]			benchmark									
Muscettola02	Computing the Envelope for Stepwise-Constant Resource Allocations			0							279	522
Muscettola02 [378]												
Vilim02 Vilim02 [515]	Batch Processing with Sequence Dependent Setup Times			0							280	589
ZhuS02 ZhuS02 [562]	A Meeting Scheduling System Based on Open Constraint Programming			0							281	615
Thorsteinsson01	Branch-and-Check: A Hybrid Framework			0							282	577
Thorsteinsson01 [491]	Integrating Mixed Integer Programming and Constraint Logic Programming											
VanczaM01	A Constraint Engine for Manufacturing Process Planning		real-life, real-world	0							283	587
VanczaM01 [513]												
VerfaillieL01	Selecting and Scheduling Observations for Agile Satellites: Some Lessons from the Constraint Reasoning Community Point of View			0							284	588
VerfaillieL01 [514]												
AngelsmarkJ00	Some Observations on Durations, Scheduling and Allen's Algebra			0							285	319
AngelsmarkJ00 [13]												
FocacciLN00	Solving Scheduling Problems with Setup Times and Alternative Resources		real-world	0							286	404
FocacciLN00 [177]												
KorbaaYG99	Solving transient scheduling problem for cyclic production using timed Petri nets and constraint programming			0							287	472
KorbaaYG99 [290]												
Simonis99	Building Industrial Applications with Constraint Programming		benchmark, real-world, real-life	0							288	564
Simonis99 [465]												
CestaOS98	Scheduling Multi-capacitated Resources Under Complex Temporal Constraints			0							289	377
CestaOS98 [126]												
FrostD98 FrostD98 [184]	Optimizing with Constraints: A Case Study in Scheduling Maintenance of Electric Power Units			0							290	410
GruianK98	Operation Binding and Scheduling for Low Power Using Constraint Logic Programming		benchmark	0							291	435
GruianK98 [219]												
PembertonG98	A constraint-based approach to satellite scheduling			0							292	535
PembertonG98 [409]												
RodosekW98	A Generic Model and Hybrid Algorithm for Hoist Scheduling Problems		benchmark	0							293	548
RodosekW98 [431]												
Shaw98 Shaw98 [455]	Using Constraint Programming and Local Search Methods to Solve Vehicle Routing Problems		benchmark	0							294	559
BaptisteP97	Constraint Propagation and Decomposition Techniques for Highly Disjunctive and Highly Cumulative Project Scheduling Problems		benchmark	0							295	334
BaptisteP97 [39]												
BeckDF97	Five Pitfalls of Empirical Scheduling Research		benchmark, real-world	0							296	342
BeckDF97 [56]												
BoucherBVBL97	Multi-criteria Comparison Between Algorithmic, Constraint Logic and Specific Constraint Programming on a Real Scheduling Problem			0							297	No
BoucherBVBL97 [105]												
Caseau97	Using Constraint Propagation for Complex Scheduling Problems: Managing Size, Complex Resources and Travel		benchmark	0							298	375
Caseau97 [122]												
PapeB97 PapeB97 [406]	A Constraint Programming Library for Preemptive and Non-Preemptive Scheduling			0							299	No

Table 4: Manually Defined PAPER Properties

Key	Title (Local Copy)	CP System	Bench	Links	Data Avail	Sol Avail	Code Avail	Based On	Classification	Constraints	a	b
BrusoniCLMMT96 BrusoniCLMMT96 [112]	Resource-Based vs. Task-Based Approaches for Scheduling Problems			0							300	370
Colombani96 Colombani96 [137]	Constraint Programming: an Efficient and Practical Approach to Solving the Job-Shop Problem			0							301	386
Zhou96 Zhou96 [559]	A Constraint Program for Solving the Job-Shop Problem			0							302	613
Goltz95 Goltz95 [210]	Reducing Domains for Search in CLP(FD) and Its Application to Job-Shop Scheduling		benchmark	0							303	428
Puget95 Puget95 [424]	Applications of Constraint Programming		benchmark	0							304	543
Simonis95 Simonis95 [464]	The CHIP System and Its Applications			0							305	562
Simonis95a Simonis95a [463]	Application Development with the CHIP System		real-life, bench- mark	0							306	563
SimonisC95 SimonisC95 [468]	Modelling Producer/Consumer Constraints		real-life	0							307	565
Touraivane95 Touraivane95 [497]	Constraint Programming and Industrial Applications		real-life	0							308	580
JourdanFRD94 JourdanFRD94 [269]	Data Alignment and Task Scheduling On Parallel Machines Using Concurrent Constraint Model-based Programming			0							309	No
NuijtenA94 NuijtenA94 [395]	Constraint Satisfaction for Multiple Capacitated Job Shop Scheduling			0							310	528
Wallace94 Wallace94 [527]	Applying Constraints for Scheduling			0							311	No
BaptisteLV92 BaptisteLV92 [42]	Hoist scheduling problem: an approach based on constraint logic programming			0							312	333
ErtlK91 ErtlK91 [166]	Optimal Instruction Scheduling using Constraint Logic Programming		real-world, benchmark	0							313	402

### 3 Journal Articles

### 3.1 Articles from bibtex

Table 5: Works from bibtex (Total 229)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	Pages	Nr Cites	Nr Refs	b	c
PrataAN23	PrataAN23	Bruno A. Prata, Levi R. Abreu, Marcelo S. Nagano	Yes	[423]	2024	Results in Control and Optimization	17	0	0	1296	1356
abs-2402-00459	S. Nguyen, Dhananjay R. Thiruvady, Y. Sun, M. Zhang	Genetic-based Constraint Programming for Resource Constrained Job Scheduling	Yes	[386]	2024	CoRR	21	0	0	1355	1357
abs-2402-00459	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	[145]	2023	Int. J. Prod. Res.	20	1	47	1163	1358
AbreuPNF23	AbreuPNF23	Levi R. Abreu, Bruno A. Prata, Marcelo S. Nagano, Jose M. Framinan	No	[3]	2023	Computers Operations Research	1	0	46	No	1359
AkramNHSA23	AkramNHSA23	Bilal Omar Akram, Nor Kamariah Noordin, F. Hashim, Mohd Fadlee A. Rasid, Mustafa Ismael Salman, Abdulrahman M. Abdulghani	Yes	[9]	2023	IEEE Access	16	0	0	1165	1360
AlfieriGPS23	AlfieriGPS23	A. Alfieri, M. Garraffa, E. Pastore, F. Salassa	Yes	[11]	2023	Computers and Industrial Engineering	13	0	37	1166	1361
AlfieriGPS23	Caballero23	Jordi Coll Caballero	Yes	[114]	2023	Constraints An Int. J.	1	0	0	1200	1362
Caballero23	Caballero23	Jordi Coll Caballero	Yes	[114]	2023	Advances in Science and Technology Research Journal	14	0	0	1206	1363
CzerniachowskaWZ23	CzerniachowskaWZ23	C. Kateryna, W. Radosław, Żywicki, Krzysztof	Yes	[138]	2023	Central Eur. J. Oper. Res.	25	1	40	1227	1364
GurPAE23	GurPAE23	S. Gür, M. Pinarbasi, Haci Mehmet Alakas, T. Eren	Yes	[222]	2023	Soft Comput.	28	0	127	1242	1365
IsikYA23	IsikYA23	Eyüp Ensar Isik, Seyda Topaloglu Yildiz, Özge Satir Akpunar	Yes	[265]	2023	Constraints An Int. J.	42	0	32	1256	1366
LacknerMMWW23	LacknerMMWW23	M. Lackner, C. Mrkvicka, N. Musliu, D. Walkiewicz, F. Winter	Yes	[313]	2023	Algorithms	13	2	18	1274	1367
MontemanniD23	MontemanniD23	R. Montemanni, M. Dell'Amico	Yes	[371]	2023	EURO J. Comput. Optim.	20	0	14	1275	1368
MontemanniD23a	MontemanniD23a	R. Montemanni, M. Dell'Amico	Yes	[370]	2023	INFORMS Journal on Computing	27	2	50	1278	1369
NaderiRR23	NaderiRR23	N. Bahman, R. Rubén, R. Vahid	Yes	[381]	2023	Int. J. Electron. Secur. Digit. Forensics	12	0	0	1309	1370
ShaikhK23	ShaikhK23	Aftab Ahmed Shaikh, Abdullah Ayub Khan	Yes	[454]	2023	IEEE Access	11	0	0	1334	1371
YuraszeckMCCR23	YuraszeckMCCR23	F. Yuraszeck, E. Montero, D. Canut-de-Bon, N. Cuneo, M. Rojel	Yes	[549]	2023	CoRR	42	0	0	1352	1372
abs-2305-19888	abs-2305-19888	V. Heinz, A. Novák, M. Vlk, Z. Hanzálek	Yes	[243]	2023	CoRR	9	0	0	1353	1373
abs-2306-05747	abs-2306-05747	P. Tassel, M. Gebser, K. Schekotihin	Yes	[482]	2023	CoRR	20	0	0	1354	1374
abs-2312-13682	abs-2312-13682	G. Perez, G. Glorian, W. Suijlen, A. Lallouet	Yes	[411]	2023	CoRR					

Table 5: Works from bibtex (Total 229)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	Pages	Nr Cites	Nr Refs	b	c
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	[144]	2022	Comput. Ind. Eng.	20	10	56	1162	1375
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	[107]	2022	Int. J. Prod. Res.	19	4	44	1198	1376
CampeauG22 CampeauG22	L. Campeau, M. Gamache	Short- and medium-term optimization of underground mine planning using constraint programming	Yes	[115]	2022	Constraints An Int. J.	18	0	22	1201	1377
ColT22 ColT22	Giacomo Da Col, Erich Christian Teppan	Industrial-size job shop scheduling with constraint programming	Yes	[136]	2022	Operations Research Perspectives	19	0	0	1205	1378
FarsiTM22 FarsiTM22	A. Farsi, S. Ali Torabi, M. Mokhtarzadeh	Integrated surgery scheduling by constraint programming and meta-heuristics	Yes	[174]	2022	International Journal of Management Science and Engineering Management	14	0	0	1217	1379
Fatemi-AnarakiMFN22 Fatemi-AnarakiMFN22	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	No	[175]	2022	Omega	null	0	0	No	1380
FetgoD22 FetgoD22	S��verine Betmbe Fetgo, Cl��mentin Tayou Djam��gni	Horizontally Elastic Edge-Finder Algorithm for Cumulative Resource Constraint Revisited	Yes	[176]	2022	Oper. Res. Forum	32	0	20	1218	1381
HeinzNVH22 HeinzNVH22	V. Heinz, A. Nov��k, M. Vlk, Z. Hanz��lek	Constraint Programming and constructive heuristics for parallel machine scheduling with sequence-dependent setups and common servers	Yes	[242]	2022	Comput. Ind. Eng.	16	5	25	1233	1382
MullerMKP22 MullerMKP22	D. M��ller, Marcus Gerhard M��ller, D. Kress, E. Pesch	An algorithm selection approach for the flexible job shop scheduling problem: Choosing constraint programming solvers through machine learning	Yes	[375]	2022	Eur. J. Oper. Res.	18	17	59	1276	1383
NaderiBZ22 NaderiBZ22	B. Naderi, Mehmet A. Begen, G. Zhang	Integrated Order Acceptance and Resource Decisions Under Uncertainty: Robust and Stochastic Approaches	Yes	[380]	2022	SSRN Electronic Journal	29	0	44	1277	1384
PohlAK22 PohlAK22	M. Pohl, C. Artigues, R. Kolisch	Solving the time-discrete winter runway scheduling problem: A column generation and constraint programming approach	Yes	[416]	2022	Eur. J. Oper. Res.	16	4	31	1293	1385
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	[456]	2022	Int. J. Prod. Res.	18	2	45	No	1386
SubulanC22 SubulanC22	K. Subulan, G. ��akir	Constraint programming-based transformation approach for a mixed fuzzy-stochastic resource investment project scheduling problem	Yes	[471]	2022	Soft Comput.	38	5	86	1315	1387
YunosogluY22 YunusogluY22	P. Yunusoglu, Seyda Topaloglu Yildiz	Constraint programming approach for multi-resource-constrained unrelated parallel machine scheduling problem with sequence-dependent setup times	Yes	[546]	2022	Int. J. Prod. Res.	18	20	58	1333	1388
YuraszeckMPV22 YuraszeckMPV22	F. Yuraszeck, G. Mej��a, J. Pereira, M. Vil��	A Novel Constraint Programming Decomposition Approach for the Total Flow Time Fixed Group Shop Scheduling Problem	Yes	[548]	2022	Mathematics	26	0	0	1335	1389
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	[472]	2022	CoRR	17	0	0	1351	1390
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	1160	1391
AbreuAPNM21 AbreuAPNM21	Levi Ribeiro de Abreu, Kennedy A. G. Ara��jo, 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	[143]	2021	Engineering Optimization	21	0	0	1161	1392

Table 5: Works from bibtex (Total 229)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	Pages	Nr Cites	Nr Refs	b	c
Bedhief21 Bedhief21	Asma Ouled Bedhief	Comparing Mixed-Integer Programming and Constraint Programming Models for the Hybrid Flow Shop Scheduling Problem with Dedicated Machines	Yes	[65]	2021	Journal Européen des Systèmes Automatisés	7	0	0	1183	1393
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	[173]	2021	Comput. Oper. Res.	15	18	57	1216	1394
HamPK21 HamPK21	A. Ham, M. Park, Kyung Min Kim	Energy-Aware Flexible Job Shop Scheduling Using Mixed Integer Programming and Constraint Programming	Yes	[225]	2021	Mathematical Problems in Engineering	12	0	0	1230	1395
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	[262]	2021	J. Sched.	22	0	37	1241	1396
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	[288]	2021	Constraints An Int. J.	51	2	52	1247	1397
PandeyS21a PandeyS21a	V. Pandey, P. Saini	Constraint programming versus heuristic approach to MapReduce scheduling problem in Hadoop YARN for energy minimization	Yes	[404]	2021	J. Supercomput.	29	3	32	1290	1398
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	[425]	2021	IEEE Trans Autom. Sci. Eng.	12	12	30	1298	1399
VlkHT21 VlkHT21	M. Vlk, Z. Hanzálek, S. Tang	Constraint programming approaches to joint routing and scheduling in time-sensitive networks	Yes	[526]	2021	Comput. Ind. Eng.	14	7	22	1327	1400
ZhangYW21 ZhangYW21	L. Zhang, C. Yu, T. N. Wong	A graph-based constraint programming approach for the integrated process planning and scheduling problem	Yes	[556]	2021	Comput. Oper. Res.	10	6	35	1341	1401
abs-2102-08778 abs-2102-08778	Giacomo Da Col, E. Teppan	Large-Scale Benchmarks for the Job Shop Scheduling Problem	Yes	[134]	2021	CoRR	10	0	0	1350	1402
AlizdehS20 AlizdehS20	S. Alizdeh, S. Saeidi	Fuzzy project scheduling with critical path including risk and resource constraints using linear programming	No	[12]	2020	Int. J. Adv. Intell. Paradigms	14	1	0	No	1403
AntunesABDEGGOL20 AntunesABDEGGOL20	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	No	[15]	2020	Int. J. Artif. Intell. Tools	31	0	16	No	1404
AstrandJZ20 AstrandJZ20	M. Åstrand, M. Johansson, A. Zanarini	Underground mine scheduling of mobile machines using Constraint Programming and Large Neighborhood Search	Yes	[30]	2020	Comput. Oper. Res.	13	16	24	1168	1405
BadicaBI20 BadicaBI20	A. Badica, C. Badica, M. Ivanovic	Block structured scheduling using constraint logic programming	Yes	[31]	2020	AI Commun.	17	2	28	1169	1406
BenediktMH20 BenediktMH20	O. Benedikt, I. Módos, Z. Hanzálek	Power of pre-processing: production scheduling with variable energy pricing and power-saving states	Yes	[77]	2020	Constraints An Int. J.	19	1	18	1189	1407
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	[125]	2020	Journal of Scheduling	19	2	21	1203	1408
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	[172]	2020	International Journal of Applied Management Science	18	0	0	1215	1409
LunardiBLRV20 LunardiBLRV20	William T. Lunardi, Ernesto G. Birgin, P. Laborie, Débora P. Ronconi, H. Voos	Mixed Integer linear programming and constraint programming models for the online printing shop scheduling problem	Yes	[346]	2020	Comput. Oper. Res.	20	30	18	1267	1410

Table 5: Works from bibtex (Total 229)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	Pages	Nr Cites	Nr Refs	b	c
MejiaY20 MejiaY20	G. Mejia, F. Yuraszeck	A self-tuning variable neighborhood search algorithm and an effective decoding scheme for open shop scheduling problems with travel/setup times	Yes	[361]	2020	Eur. J. Oper. Res.	13	24	45	1271	1411
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	[363]	2020	Comput. Ind. Eng.	13	100	62	1272	1412
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	[367]	2020	Int. J. Comput. Integr. Manuf.	14	25	32	1273	1413
Polo-MejiaALB20 Polo-MejiaALB20	O. Polo-Mejia, C. Artigues, P. Lopez, V. Basini	Mixed-integer/linear and constraint programming approaches for activity scheduling in a nuclear research facility	Yes	[417]	2020	Int. J. Prod. Res.	18	8	23	1294	1414
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	[426]	2020	Eur. J. Oper. Res.	18	27	30	1297	1415
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	[436]	2020	Oper. Res. Forum	33	2	38	1302	1416
WallaceY20 WallaceY20	M. Wallace, N. Yorke-Smith	A new constraint programming model and solving for the cyclic hoist scheduling problem	Yes	[529]	2020	Constraints An Int. J.	19	5	18	1329	1417
ZarandiASC20 ZarandiASC20	Mohammad Hossein Fazel Zarandi, Ali Akbar Sadat Asl, S. Sotudian, O. Castillo	A state of the art review of intelligent scheduling	Yes	[551]	2020	Artif. Intell. Rev.	93	55	445	1336	1418
ZouZ20 ZouZ20	X. Zou, L. Zhang	A constraint programming approach for scheduling repetitive projects with atypical activities considering soft logic	Yes	[565]	2020	Automation in Construction	10	0	0	1343	1419
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	[167]	2019	Comput. Chem. Eng.	10	17	18	1211	1420
GurEA19 GurEA19	Şeyda Gür, T. Eren, Hacı Mehmet Alakaş	Surgical Operation Scheduling with Goal Programming and Constraint Programming: A Case Study	Yes	[566]	2019	Mathematics	24	0	0	1226	1421
NishikawaSTT19 NishikawaSTT19	H. Nishikawa, K. Shimada, I. Taniguchi, H. Tomiyama	A Constraint Programming Approach to Scheduling of Malleable Tasks	Yes	[389]	2019	Int. J. Netw. Comput.	16	0	0	1281	1422
Novas19 Novas19	Juan M. Novas	Production scheduling and lot streaming at flexible job-shops environments using constraint programming	Yes	[391]	2019	Comput. Ind. Eng.	13	30	29	1283	1423
WariZ19 WariZ19	E. Wari, W. Zhu	A Constraint Programming model for food processing industry: a case for an ice cream processing facility	No	[533]	2019	International Journal of Production Research	null	11	42	No	1424
WikarekS19 WikarekS19	J. Wikarek, P. Sitek	A Constraint-Based Declarative Programming Framework for Scheduling and Resource Allocation Problems	Yes	[536]	2019	Vietnam. J. Comput. Sci.	22	0	11	1331	1425
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	[544]	2019	Operations research for health care	11	0	0	1332	1426
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	[68]	2019	CoRR	8	0	0	1346	1427
abs-1902-01193 abs-1902-01193	O. M. Alade, A. O. Amusat	Solving Nurse Scheduling Problem Using Constraint Programming Technique	Yes	[10]	2019	CoRR	9	0	0	1347	1428
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	[230]	2019	CoRR	62	0	0	1348	1429



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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	[195]	2019	CoRR	16	0	0	1349	1430
BaptisteB18 BaptisteB18	P. Baptiste, N. Bonifas	Redundant cumulative constraints to compute preemptive bounds	Yes	[37]	2018	Discret. Math. Appl.	10	3	13	1172	1431
BorghesiBLMB18 BorghesiBLMB18	A. Borghesi, A. Bartolini, M. Lombardi, M. Milano, L. Benini	Scheduling-based power capping in high performance computing systems	Yes	[104]	2018	Sustain. Comput. Informatics Syst.	13	11	22	1197	1432
CauwelaertLS18 CauwelaertLS18	Sascha Van Cauwelaert, M. Lombardi, P. Schaus	How efficient is a global constraint in practice? - A fair experimental framework	Yes	[124]	2018	Constraints An Int. J.	36	2	39	1204	1433
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	[170]	2018	Constraints An Int. J.	22	2	20	1213	1434
GedikKEK18 GedikKEK18	R. Gedik, D. Kalathia, G. Egilmez, E. Kirac	A constraint programming approach for solving unrelated parallel machine scheduling problem	Yes	[193]	2018	Comput. Ind. Eng.	11	43	22	1221	1435
GokgurHO18 GokgurHO18	B. Gökür, B. Hnich, S. Özpeynirci	Parallel machine scheduling with tool loading: a constraint programming approach	Yes	[207]	2018	Int. J. Prod. Res.	17	31	43	1223	1436
GoldwaserS18 GoldwaserS18	A. Goldwaser, A. Schutt	Optimal Torpedo Scheduling	Yes	[209]	2018	J. Artif. Intell. Res.	32	8	0	1224	1437
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	[224]	2018	Transportation Research Part C: Emerging Technologies	14	0	0	1229	1438
HookerH18 HookerH18	John N. Hooker, Willem Jan van Hoeve	Constraint programming and operations research	Yes	[259]	2018	Constraints An Int. J.	24	12	189	1239	1439
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	No	[303]	2018	Eur. J. Oper. Res.	15	25	31	No	1440
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	[311]	2018	Constraints An Int. J.	41	148	35	1255	1441
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	[419]	2018	Eur. J. Oper. Res.	12	41	13	1295	1442
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	[457]	2018	IEEE Trans. Syst. Man Cybern. Syst.	16	9	31	1310	1443
TangLWSK18 TangLWSK18	Y. Tang, R. Liu, F. Wang, Q. Sun, Amr A. Kandil	Scheduling Optimization of Linear Schedule with Constraint Programming	Yes	[479]	2018	Comput. Aided Civ. Infrastructure Eng.	28	24	76	1317	1444
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	[501]	2018	J. Sched.	17	8	26	1322	1445
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	[557]	2018	IEEE Trans. Engineering Management	18	49	28	1340	1446
KreterSS17 KreterSS17	S. Kreter, A. Schutt, Peter J. Stuckey	Using constraint programming for solving RCPSP/max-cal	Yes	[302]	2017	Constraints An Int. J.	31	15	20	1252	1447
NattafAL17 NattafAL17	M. Nattaf, C. Artigues, P. Lopez	Cumulative scheduling with variable task profiles and concave piecewise linear processing rate functions	Yes	[383]	2017	Constraints An Int. J.	18	5	10	1280	1448
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	[503]	2017	J. Artif. Intell. Res.	68	12	0	1323	1449

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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	No	[90]	2016	Manag. Sci.	26	20	36	No	1450
Bonfietti16 Bonfietti16	A. Bonfietti	A constraint programming scheduling solver for the MPOpt programming environment	Yes	[95]	2016	Intelligenza Artificiale	13	0	19	1195	1451
BridiBLMB16 BridiBLMB16	T. Bridi, A. Bartolini, M. Lombardi, M. Milano, L. Benini	A Constraint Programming Scheduler for Heterogeneous High-Performance Computing Machines	Yes	[109]	2016	IEEE Trans. Parallel Distributed Syst.	14	17	22	1199	1452
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	[161]	2016	INFORMS J. Comput.	17	56	28	1210	1453
HamC16 HamC16	Andy M. Ham, E. Cakici	Flexible job shop scheduling problem with parallel batch processing machines: MIP and CP approaches	No	[226]	2016	Computers Industrial Engineering	null	50	26	No	1454
HebrardHJMPV16 HebrardHJMPV16	E. Hebrard, M. Huguet, N. Jozefowicz, A. Maillard, C. Pralet, G. Verfaillie	Approximation of the parallel machine scheduling problem with additional unit resources	Yes	[233]	2016	Discret. Appl. Math.	10	9	8	1231	1455
KuB16 KuB16	W. Ku, J. Christopher Beck	Mixed Integer Programming models for job shop scheduling: A computational analysis	No	[304]	2016	Comput. Res. Oper.	9	119	17	No	1456
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	[390]	2016	Comput. Chem. Eng.	17	18	31	1282	1457
TranAB16 TranAB16	Tony T. Tran, A. Araujo, J. Christopher Beck	Decomposition Methods for the Parallel Machine Scheduling Problem with Setups	No	[498]	2016	INFORMS J. Comput.	13	72	28	No	1458
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	[550]	2016	J. Intell. Manuf.	17	28	14	1337	1459
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	[35]	2015	J. Sched.	16	17	59	1171	1460
EvenSH15a EvenSH15a	C. Even, A. Schutt, Pascal Van Hentenryck	A Constraint Programming Approach for Non-Preemptive Evacuation Scheduling	Yes	[169]	2015	CoRR	16	0	0	1212	1461
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	[206]	2015	Eur. J. Oper. Res.	12	48	4	1222	1462
GrimesH15 GrimesH15	D. Grimes, E. Hebrard	Solving Variants of the Job Shop Scheduling Problem Through Conflict-Directed Search	No	[214]	2015	INFORMS J. Comput.	17	12	41	No	1463
Kameugne15 Kameugne15	R. Kameugne	Propagation techniques of resource constraint for cumulative scheduling	Yes	[274]	2015	Constraints An Int. J.	2	0	0	1243	1464
LetortCB15 LetortCB15	A. Letort, M. Carlsson, N. Beldiceanu	Synchronized sweep algorithms for scalable scheduling constraints	Yes	[321]	2015	Constraints An Int. J.	52	2	14	1258	1465
NattafAL15 NattafAL15	M. Nattaf, C. Artigues, P. Lopez	A hybrid exact method for a scheduling problem with a continuous resource and energy constraints	Yes	[382]	2015	Constraints An Int. J.	21	14	13	1279	1466
Siala15 Siala15	M. Siala	Search, propagation, and learning in sequencing and scheduling problems	Yes	[458]	2015	Constraints An Int. J.	2	4	0	1311	1467
SimoninAHL15 SimoninAHL15	G. Simonin, C. Artigues, E. Hebrard, P. Lopez	Scheduling scientific experiments for comet exploration	Yes	[462]	2015	Constraints An Int. J.	23	4	5	1312	1468
WangMD15 WangMD15	T. Wang, N. Meskens, D. Duvivier	Scheduling operating theatres: Mixed integer programming vs. constraint programming	Yes	[532]	2015	Eur. J. Oper. Res.	13	36	33	1330	1469
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	No	[89]	2014	INFORMS J. Comput.	19	15	47	No	1470
BonfiettiLBM14 BonfiettiLBM14	A. Bonfietti, M. Lombardi, L. Benini, M. Milano	CROSS cyclic resource-constrained scheduling solver	Yes	[98]	2014	Artif. Intell.	28	8	15	1196	1471
GrimesIOS14 GrimesIOS14	D. Grimes, G. Ifrim, B. O'Sullivan, H. Simonis	Analyzing the impact of electricity price forecasting on energy cost-aware scheduling	Yes	[216]	2014	Sustain. Comput. Informatics Syst.	16	6	7	1225	1472
KameugneFSN14 KameugneFSN14	R. Kameugne, Laure Pauline Fotso, Joseph D. Scott, Y. Ngo-Kateu	A quadratic edge-finding filtering algorithm for cumulative resource constraints	Yes	[278]	2014	Constraints An Int. J.	27	6	10	1244	1473

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NovasH14 NovasH14	Juan M. Novas, Gabriela P. Henning	Integrated scheduling of resource-constrained flexible manufacturing systems using constraint programming	Yes	[394]	2014	Expert Syst. Appl.	14	35	26	1286	1474
TerekhovTDB14 TerekhovTDB14	D. Terekhov, Tony T. Tran, Douglas G. Down, J. Christopher Beck	Integrating Queueing Theory and Scheduling for Dynamic Scheduling Problems	Yes	[486]	2014	J. Artif. Intell. Res.	38	12	0	1318	1475
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	[490]	2014	J. Heuristics	34	19	18	1319	1476
BajestaniB13 BajestaniB13	Maliheh Aramon Bajestani, J. Christopher Beck	Scheduling a Dynamic Aircraft Repair Shop with Limited Repair Resources	Yes	[34]	2013	J. Artif. Intell. Res.	36	14	0	1170	1477
BegB13 BegB13	Mirza Omer Beg, Peter van Beek	A constraint programming approach for integrated spatial and temporal scheduling for clustered architectures	Yes	[66]	2013	ACM Trans. Embed. Comput. Syst.	23	1	28	1184	1478
HeinzSB13 HeinzSB13	S. Heinz, J. Schulz, J. Christopher Beck	Using dual presolving reductions to reformulate cumulative constraints	Yes	[241]	2013	Constraints An Int. J.	36	7	31	1234	1479
OzturkTHO13 OzturkTHO13	C. Öztürk, S. Tunali, B. Hnich, M. Arslan Ornek	Balancing and scheduling of flexible mixed model assembly lines	Yes	[403]	2013	Constraints An Int. J.	36	31	44	1289	1480
SchuttFSW13 SchuttFSW13	A. Schutt, T. Feydy, Peter J. Stuckey, Mark G. Wallace	Solving RCPSP/max by lazy clause generation	Yes	[448]	2013	J. Sched.	17	43	23	1308	1481
HeinzSSW12 HeinzSSW12	S. Heinz, T. Schlechte, R. Stephan, M. Winkler	Solving steel mill slab design problems	Yes	[239]	2012	Constraints An Int. J.	12	10	9	1235	1482
LimtanyakulS12 LimtanyakulS12	K. Limtanyakul, U. Schwiegelshohn	Improvements of constraint programming and hybrid methods for scheduling of tests on vehicle prototypes	Yes	[328]	2012	Constraints An Int. J.	32	4	16	1260	1483
LombardiM12 LombardiM12	M. Lombardi, M. Milano	Optimal methods for resource allocation and scheduling: a cross-disciplinary survey	Yes	[340]	2012	Constraints An Int. J.	35	39	68	1262	1484
LombardiM12a LombardiM12a	M. Lombardi, M. Milano	A min-flow algorithm for Minimal Critical Set detection in Resource Constrained Project Scheduling	Yes	[339]	2012	Artif. Intell.	10	3	13	1263	1485
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	[393]	2012	Comput. Chem. Eng.	17	17	15	1285	1486
TerekhovDOB12 TerekhovDOB12	D. Terekhov, Mustafa K. Dogru, U. Özen, J. Christopher Beck	Solving two-machine assembly scheduling problems with inventory constraints	No	[485]	2012	Comput. Ind. Eng.	15	8	48	No	1487
BandaSC11 BandaSC11	Maria García de la Banda, Peter J. Stuckey, G. Chu	Solving Talent Scheduling with Dynamic Programming	No	[146]	2011	INFORMS J. Comput.	18	24	17	No	1488
BartakS11 BartakS11	R. Barták, Miguel A. Salido	Constraint satisfaction for planning and scheduling problems	Yes	[48]	2011	Constraints An Int. J.	5	17	3	1175	1489
BeckFW11 BeckFW11	J. Christopher Beck, T. K. Feng, J. Watson	Combining Constraint Programming and Local Search for Job-Shop Scheduling	Yes	[57]	2011	INFORMS J. Comput.	14	43	23	1180	1490
BeldiceanuCDP11 BeldiceanuCDP11	N. Beldiceanu, M. Carlsson, S. Demassey, E. Poder	New filtering for the <i>cumulative</i> constraint in the context of non-overlapping rectangles	Yes	[71]	2011	Ann. Oper. Res.	24	8	8	1186	1491
BeniniLMR11 BeniniLMR11	L. Benini, M. Lombardi, M. Milano, M. Ruggiero	Optimal resource allocation and scheduling for the CELL BE platform	Yes	[80]	2011	Ann. Oper. Res.	27	18	16	1190	1492
HachemiGR11 HachemiGR11	Nizar El Hachemi, M. Gendreau, L. Rousseau	A hybrid constraint programming approach to the log-truck scheduling problem	Yes	[223]	2011	Ann. Oper. Res.	16	32	19	1228	1493
HeckmanB11 HeckmanB11	I. Heckman, J. Christopher Beck	Understanding the behavior of Solution-Guided Search for job-shop scheduling	Yes	[236]	2011	J. Sched.	20	0	22	1232	1494
KelbelH11 KelbelH11	J. Kelbel, Z. Hanzálek	Solving production scheduling with earliness/tardiness penalties by constraint programming	Yes	[281]	2011	J. Intell. Manuf.	10	12	14	1245	1495
KovacsB11 KovacsB11	A. Kovács, J. Christopher Beck	A global constraint for total weighted completion time for unary resources	Yes	[295]	2011	Constraints An Int. J.	24	4	26	1250	1496
KovacsK11 KovacsK11	A. Kovács, T. Kis	Constraint programming approach to a bilevel scheduling problem	Yes	[297]	2011	Constraints An Int. J.	24	3	24	1251	1497

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SchausHMCMD11	P. Schaus, Pascal Van Hentenryck, J. Monette,	Solving Steel Mill Slab Problems with	Yes	[440]	2011	Constraints An Int.	23	14	5	1305	1498
SchausHMCMD11	C. Coffrin, L. Michel, Y. Deville	constraint-based techniques: CP, LNS, and CBLS				J.					
SchuttFSW11	A. Schutt, T. Feydy, Peter J. Stuckey, Mark G.	Explaining the cumulative propagator	Yes	[447]	2011	Constraints An Int.	33	57	23	1307	1499
SchuttFSW11	Wallace					J.					
TopalogluO11	S. Topaloglu, I. Ozkarahan	A constraint programming-based solution approach	Yes	[494]	2011	Comput. Oper.	10	46	24	1321	1500
TopalogluO11		for medical resident scheduling problems				Res.					
TrojetHL11	M. Trojet, F. H'Mida, P. Lopez	Project scheduling under resource constraints:	Yes	[506]	2011	Comput. Ind. Eng.	7	11	17	1324	1501
		Application of the cumulative global constraint in a									
		decision support framework									
BartakCS10	R. Barták, O. Cepek, P. Surynek	Discovering implied constraints in precedence graphs	Yes	[47]	2010	Ann. Oper. Res.	31	2	9	1174	1502
BartakCS10		with alternatives									
BartakSR10	R. Barták, Miguel A. Salido, F. Rossi	New trends in constraint satisfaction, planning, and	Yes	[49]	2010	Knowl. Eng. Rev.	31	28	47	1176	1503
BartakSR10		scheduling: a survey									
HartmannB10	S. Hartmann, D. Briskorn	A survey of variants and extensions of the	No	[229]	2010	European Jour-	null	577	177	No	1504
HartmannB10		resource-constrained project scheduling problem				nal of Operational Research					
LombardiM10a	M. Lombardi, M. Milano	Allocation and scheduling of Conditional Task	Yes	[337]	2010	Artif. Intell.	30	8	24	1261	1505
LombardiM10a		Graphs									
LopesCSM10	Tony Minoru Tamura Lopes, André A. Ciré, Cid	A hybrid model for a multiproduct pipeline planning	Yes	[342]	2010	Constraints An Int.	39	31	18	1264	1506
LopesCSM10	Carvalho de Souza, Arnaldo Vieira Moura	and scheduling problem				J.					
NovasH10	Juan M. Novas, Gabriela P. Henning	Reactive scheduling framework based on domain	Yes	[392]	2010	Comput. Chem.	20	48	19	1284	1507
		knowledge and constraint programming				Eng.					
ZeballosQH10	L. Zeballos, O. Quiroga, Gabriela P. Henning	A constraint programming model for the scheduling	Yes	[553]	2010	Eng. Appl. Artif.	20	33	28	1339	1508
ZeballosQH10		of flexible manufacturing systems with machine and				Intell.					
		tool limitations									
abs-1009-0347	A. Schutt, T. Feydy, Peter J. Stuckey, Mark G.	Solving the Resource Constrained Project	Yes	[446]	2010	CoRR	37	0	0	1345	1509
abs-1009-0347	Wallace	Scheduling Problem with Generalized Precedences									
		by Lazy Clause Generation									
BidotVLB09	J. Bidot, T. Vidal, P. Laborie, J. Christopher	A theoretic and practical framework for scheduling	Yes	[84]	2009	J. Sched.	30	58	20	1192	1510
BidotVLB09	Beck	in a stochastic environment									
BocewiczBB09	G. Bocewicz, I. Bach, Zbigniew Antoni Banaszak	Logic-algebraic method based and constraints	Yes	[91]	2009	Int. J. Intell. Inf.	19	0	0	1194	1511
BocewiczBB09		programming driven approach to AGVs scheduling				Database Syst.					
GarridoAO09	A. Garrido, M. Arangú, E. Onaindia	A constraint programming formulation for planning:	Yes	[187]	2009	J. Sched.	30	5	14	1219	1512
GarridoAO09		from plan scheduling to plan generation									
Jans09	Jans, Raf	Solving Lot-Sizing Problems on Parallel Identical	No	[267]	2009	INFORMS Journal	null	59	73	No	1513
Jans09		Machines Using Symmetry-Breaking Constraints				on Computing					
		Propagation via lazy clause generation				Constraints					
OhrimenkoSC09	O. Ohrimenko, Peter J. Stuckey, M. Codish		Yes	[398]	2009		35	127	15	1288	1514
OhrimenkoSC09											
RuggieroBBMA09	M. Ruggiero, D. Bertozzi, L. Benini, M. Milano,	Reducing the Abstraction and Optimality Gaps in	Yes	[435]	2009	IEEE Trans. Com-	14	9	27	1301	1515
RuggieroBBMA09	A. Andrei	the Allocation and Scheduling for Variable				put. Aided Des. In-					
		Voltage/Frequency MPSoC Platforms				tegr. Circuits Syst.					
WuBB09	Christine Wei Wu, Kenneth N. Brown, J.	Scheduling with uncertain durations: Modeling	No	[542]	2009	Comput. Oper.	9	42	5	No	1516
WuBB09	Christopher Beck	beta-robust scheduling with constraints				Res.					
abs-0907-0939	T. Petit, E. Poder	The Soft Cumulative Constraint	Yes	[413]	2009	CoRR	12	0	0	1344	1517
abs-0907-0939											
GarridoOS08	A. Garrido, E. Onaindia, Óscar Sapena	Planning and scheduling in an e-learning	Yes	[188]	2008	Eng. Appl. Artif.	11	22	7	1220	1518
GarridoOS08		environment. A constraint-programming-based				Intell.					
		approach									
KovacsB08	A. Kovács, J. Christopher Beck	A global constraint for total weighted completion	Yes	[294]	2008	Eng. Appl. Artif.	7	5	14	1249	1519
KovacsB08		time for cumulative resources				Intell.					
LiessM08	O. Liess, P. Michelon	A constraint programming approach for the	Yes	[323]	2008	Ann. Oper. Res.	12	22	14	1259	1520
LiessM08		resource-constrained project scheduling problem									
MalikMB08	Abid M. Malik, J. McInnes, Peter van Beek	Optimal Basic Block Instruction Scheduling for	Yes	[356]	2008	Int. J. Artif. Intell.	18	15	8	1268	1521
MalikMB08		Multiple-Issue Processors Using Constraint				Tools					
		Programming									

Table 5: Works from bibtex (Total 229)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	Pages	Nr Cites	Nr Refs	b	c	
MercierH08	MercierH08	L. Mercier, Pascal Van Hentenryck	Edge Finding for Cumulative Scheduling	No	[364]	2008	INFORMS Journal on Computing	null	32	5	No	1522
Beck07	Beck07	J. Christopher Beck	Solution-Guided Multi-Point Constructive Search for Job Shop Scheduling	Yes	[55]	2007	J. Artif. Intell. Res.	29	34	0	1177	1523
BeckW07	BeckW07	J. Christopher Beck, N. Wilson	Proactive Algorithms for Job Shop Scheduling with Probabilistic Durations	Yes	[64]	2007	J. Artif. Intell. Res.	50	27	0	1182	1524
Hooker07	Hooker07	John N. Hooker	Planning and Scheduling by Logic-Based Benders Decomposition	No	[255]	2007	Operations Research	null	181	19	No	1525
Rodriguez07	Rodriguez07	J. Rodriguez	A constraint programming model for real-time train scheduling at junctions	Yes	[433]	2007	Transportation Research Part B: Methodological	15	117	6	1299	1526
Simonis07	Simonis07	H. Simonis	Models for Global Constraint Applications	Yes	[466]	2007	Constraints An Int. J.	30	10	17	1313	1527
Hooker06	Hooker06	John N. Hooker	An Integrated Method for Planning and Scheduling to Minimize Tardiness	Yes	[254]	2006	Constraints An Int. J.	19	19	13	1238	1528
KhayatLR06	KhayatLR06	Ghada El Khayat, A. Langevin, D. Riopel	Integrated production and material handling scheduling using mathematical programming and constraint programming	Yes	[283]	2006	Eur. J. Oper. Res.	15	84	14	1246	1529
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	[438]	2006	INFORMS J. Comput.	9	45	6	1303	1530
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	[474]	2006	Int. J. Parallel Emergent Distributed Syst.	19	12	23	1316	1531
Hooker05	Hooker05	John N. Hooker	A Hybrid Method for the Planning and Scheduling	Yes	[252]	2005	Constraints An Int. J.	17	68	11	1237	1532
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	[523]	2005	Constraints An Int. J.	23	21	5	1326	1533
ZeballosH05	ZeballosH05	L. Zeballos, Gabriela P. Henning	A Constraint Programming Approach to FMS Scheduling. Consideration of Storage and Transportation Resources	Yes	[552]	2005	Inteligencia Artif.	10	0	0	1338	1534
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	[415]	2004	Eur. J. Oper. Res.	16	7	8	1292	1535
BeckR03	BeckR03	J. Christopher Beck, P. Refalo	A Hybrid Approach to Scheduling with Earliness and Tardiness Costs	Yes	[61]	2003	Ann. Oper. Res.	23	29	0	1181	1536
HookerO03	HookerO03	John N. Hooker, G. Ottosson	Logic-based Benders decomposition	Yes	[258]	2003	Mathematical Programming J. Syst. Archit.	28	317	0	1240	1537
KuchcinskiW03	KuchcinskiW03	K. Kuchcinski, C. Wolinski	Global approach to assignment and scheduling of complex behaviors based on HCDG and constraint programming	Yes	[305]	2003	J. Syst. Archit.	15	19	18	1253	1538
Laborie03	Laborie03	P. Laborie	Algorithms for propagating resource constraints in AI planning and scheduling: Existing approaches and new results	Yes	[308]	2003	Artificial Intelligence	38	128	10	1254	1539
Tsang03	Tsang03	Edward P. K. Tsang	Constraint Based Scheduling: Applying Constraint Programming to Scheduling Problems	Yes	[507]	2003	J. Sched.	2	1	0	1325	1540
HarjunkoskiG02	HarjunkoskiG02	I. Harjunkoski, Ignacio E. Grossmann	Decomposition techniques for multistage scheduling problems using mixed-integer and constraint programming methods	No	[228]	2002	Computers Chemical Engineering	null	169	11	No	1541
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	[344]	2002	J. Oper. Res. Soc.	8	22	0	1266	1542
RodriguezDG02	RodriguezDG02	J. Rodriguez, X. Delorme, X. Gandibleux	Railway infrastructure saturation using constraint programming approach	Yes	[432]	2002	Computers in Railways VIII	10	0	0	1300	1543

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Timpe02 Timpe02	C. Timpe	Solving planning and scheduling problems with combined integer and constraint programming	Yes	[492]	2002	OR Spectr.	18	42	0	1320	1544
JainG01 JainG01	V. Jain, Ignacio E. Grossmann	Algorithms for Hybrid MILP/CP Models for a Class of Optimization Problems	No	[266]	2001	INFORMS Journal on Computing	null	279	23	No	1545
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	[358]	2001	Ann. Oper. Res.	17	11	0	1269	1546
Mason01 Mason01	Andrew J. Mason	Elastic Constraint Branching, the Wedelin/Carmen Lagrangian Heuristic and Integer Programming for Personnel Scheduling	Yes	[359]	2001	Ann. Oper. Res.	38	5	0	1270	1547
ArtiguesR00 ArtiguesR00	C. Artigues, F. Roubellat	A polynomial activity insertion algorithm in a multi-resource schedule with cumulative constraints and multiple modes	Yes	[25]	2000	Eur. J. Oper. Res.	20	84	3	1167	1548
BaptisteP00 BaptisteP00	P. Baptiste, Claude Le Pape	Constraint Propagation and Decomposition Techniques for Highly Disjunctive and Highly Cumulative Project Scheduling Problems	Yes	[40]	2000	Constraints An Int. J.	21	46	0	1173	1549
BeckF00 BeckF00	J. Christopher Beck, Mark S. Fox	Dynamic problem structure analysis as a basis for constraint-directed scheduling heuristics	Yes	[59]	2000	Artif. Intell.	51	24	19	1178	1550
HeipckeCCS00 HeipckeCCS00	S. Heipcke, Y. Colombani, Cristina C. B. Cavalcante, Cid C. de Souza	Scheduling under Labour Resource Constraints	Yes	[244]	2000	Constraints An Int. J.	8	5	0	1236	1551
KorbaaYG00 KorbaaYG00	O. Korbaa, P. Yim, J. Gentina	Solving Transient Scheduling Problems with Constraint Programming	Yes	[291]	2000	Eur. J. Control	10	7	4	1248	1552
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	[343]	2000	Eur. J. Control	4	0	0	1265	1553
SakkoutW00 SakkoutW00	Hani El Sakkout, M. Wallace	Probe Backtrack Search for Minimal Perturbation in Dynamic Scheduling	Yes	[439]	2000	Constraints An Int. J.	30	73	0	1304	1554
SchildW00 SchildW00	K. Schild, J. Würtz	Scheduling of Time-Triggered Real-Time Systems	Yes	[441]	2000	Constraints An Int. J.	23	23	0	1306	1555
SimonisCK00 SimonisCK00	H. Simonis, P. Charlier, P. Kay	Constraint Handling in an Integrated Transportation Problem	No	[467]	2000	IEEE Intell. Syst.	7	11	5	No	1556
SourdN00 SourdN00	F. Sourd, W. Nuijten	Multiple-Machine Lower Bounds for Shop-Scheduling Problems	Yes	[469]	2000	INFORMS J. Comput.	12	7	14	1314	1557
TorresL00 TorresL00	P. Torres, P. Lopez	On Not-First/Not-Last conditions in disjunctive scheduling	No	[495]	2000	European Journal of Operational Research	null	26	13	No	1558
BensanaLV99 BensanaLV99	E. Bensana, M. Lemaître, G. Verfaillie	Earth Observation Satellite Management	Yes	[81]	1999	Constraints An Int. J.	7	99	0	1191	1559
BruckerDMNP99 BruckerDMNP99	P. Brucker, A. Drexler, R. Möhring, K. Neumann, E. Pesch	Resource-constrained project scheduling: Notation, classification, models, and methods	No	[111]	1999	European Journal of Operational Research	null	990	137	No	1560
BeckF98 BeckF98	J. Christopher Beck, Mark S. Fox	A Generic Framework for Constraint-Directed Search and Scheduling	Yes	[58]	1998	AI Mag.	30	0	0	1179	1561
BelhadjiI98 BelhadjiI98	S. Belhadji, A. Isli	Temporal Constraint Satisfaction Techniques in Job Shop Scheduling Problem Solving	Yes	[74]	1998	Constraints An Int. J.	9	3	0	1187	1562
NuijtenP98 NuijtenP98	W. Nuijten, Claude Le Pape	Constraint-Based Job Shop Scheduling with \sc Ilog Scheduler	Yes	[396]	1998	J. Heuristics	16	42	0	1287	1563
PapaB98 PapaB98	Claude Le Pape, P. Baptiste	Resource Constraints for Preemptive Job-shop Scheduling	Yes	[407]	1998	Constraints An Int. J.	25	14	0	1291	1564
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	[140]	1997	Constraints An Int. J.	20	28	5	1207	1565
FalaschiGMP97 FalaschiGMP97	M. Falaschi, M. Gabbriellini, K. Marriott, C. Palamidessi	Constraint Logic Programming with Dynamic Scheduling: A Semantics Based on Closure Operators	Yes	[171]	1997	Inf. Comput.	27	10	9	1214	1566

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KolischS97 KolischS97	R. Kolisch, A. Sprecher	PSPLIB - A project scheduling problem library	No	[289]	1997	European Journal of Operational Research	null	840	18	No	1567
LammaMM97 LammaMM97 Zhou97 Zhou97	E. Lamma, P. Mello, M. Milano J. Zhou	A distributed constraint-based scheduler A Permutation-Based Approach for Solving the Job-Shop Problem	Yes	[315]	1997	Artif. Intell. Eng.	15	11	7	1257	1568
Wallace96 Wallace96	M. Wallace	Practical Applications of Constraint Programming	Yes	[528]	1996	Constraints An Int. J.	30	87	55	1328	1570
BeldiceanuC94 BeldiceanuC94	N. Beldiceanu, E. Contejean	Introducing Global Constraints in CHIP	Yes	[69]	1994	Mathematical and Computer Modelling	27	167	8	1185	1571
CarlierP94 CarlierP94	J. Carlier, E. Pinson	Adjustment of heads and tails for the job-shop problem	No	[121]	1994	European Journal of Operational Research	null	151	10	No	1572
Pape94 Pape94	Claude Le Pape	Implementation of resource constraints in ILOG SCHEDULE: a library for the development of constraint-based scheduling systems	No	[405]	1994	Intelligent Systems Engineering	1	98	0	No	1573
AggounB93 AggounB93	A. Aggoun, N. Beldiceanu	Extending CHIP in order to solve complex scheduling and placement problems	Yes	[7]	1993	Mathematical and Computer Modelling	17	187	11	1164	1574
Taillard93 Taillard93	E. Taillard	Benchmarks for basic scheduling problems	No	[477]	1993	European Journal of Operational Research	null	1568	6	No	1575
Tay92 Tay92	David B. H. Tay	COPS: A Constraint Programming Approach to Resource-Limited Project Scheduling	No	[483]	1992	Comput. J.	null	0	0	No	1576
ApplegateC91 ApplegateC91	D. Applegate, W. Cook	A Computational Study of the Job-Shop Scheduling Problem	No	[18]	1991	ORSA Journal on Computing	null	536	0	No	1577
DechterMP91 DechterMP91	R. Dechter, I. Meiri, J. Pearl	Temporal constraint networks	Yes	[147]	1991	Artificial Intelligence	35	879	28	1208	1578
CarlierP90 CarlierP90	J. Carlier, E. Pinson	A practical use of Jackson's preemptive schedule for solving the job shop problem	Yes	[120]	1990	Annals of Operations Research	19	112	11	1202	1579
DincbasSH90 DincbasSH90	M. Dincbas, H. Simonis, Pascal Van Hentenryck	Solving Large Combinatorial Problems in Logic Programming	Yes	[158]	1990	J. Log. Program.	19	86	9	1209	1580
CarlierP89 CarlierP89	J. Carlier, E. Pinson	An Algorithm for Solving the Job-Shop Problem	No	[119]	1989	Management Science	null	516	0	No	1581
AdamsBZ88 AdamsBZ88	J. Adams, E. Balas, D. Zawack	The Shifting Bottleneck Procedure for Job Shop Scheduling	No	[6]	1988	Management Science	null	1054	0	No	1582
BlazewiczLK83 BlazewiczLK83	J. Blazewicz, Jan Karel Lenstra, A. H. G. Rinnooy Kan	Scheduling subject to resource constraints: classification and complexity	Yes	[88]	1983	Discret. Math.	14	947	6	1193	1583
Benders62 Benders62	Jacques F. Benders	Partitioning procedures for solving mixed-variables programming problems	Yes	[76]	1962	Numerische Mathematik	15	2583	6	1188	1584

## 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	scheduling, order, resource, setup-time, cmax, machine, transportation	parallel machine	cycle	Python	Gurobi			real-world, generated instance, github		966	1391
AbreuAPNM21 [143]	21	scheduling, completion-time, make-span, open-shop, order, setup-time, job, resource, task, machine, preempt, multi-agent, release-date, job-shop, distributed, cmax, tardiness, precedence, flow-shop	OSSP, single machine, Open Shop Scheduling Problem, parallel machine	noOverlap, cycle	Python, C++	OZ, Cplex	automotive, medical, patient	oil industry	generated instance, benchmark, real-world		967	1392
AbreuN22 [144]	20	preempt, make-span, transportation, order, tardiness, inventory, scheduling, flow-time, distributed, resource, completion-time, machine, setup-time, job, job-shop, task, flow-shop, open-shop, batch process, cmax	single machine, Open Shop Scheduling Problem, OSSP	noOverlap, cycle, cumulative	Python	OZ, Cplex	medical		real-world, benchmark		950	1375
AbreuNP23 [145]	20	scheduling, make-span, order, cmax, completion-time, machine, tardiness, job, earliness, setup-time, preempt, transportation, open-shop, distributed, job-shop, flow-shop, resource	parallel machine, Open Shop Scheduling Problem, OSSP	noOverlap	Python	Cplex, OPL	medical	oil industry	real-world, benchmark	time-tabling	933	1358
AggounB93 [7]	17	task, machine, precedence, order, job, activity, due-date, job-shop, flow-shop, resource, scheduling		circuit, bin-packing, dis-junctive, cumulative	Prolog	OPL, CHIP	perfect-square, rectangle-packing		real-world		1149	1574
AkramNHRSA23 [9]	16	resource, completion-time, preempt, scheduling, order, machine, task, distributed		cycle, bin-packing	Python	OR-Tools	medical, agriculture		benchmark		935	1360
AlfieriGPS23 [11]	13	setup-time, order, tardiness, flow-shop, job, make-span, distributed, flow-time, completion-time, job-shop, resource, precedence, earliness, scheduling, machine, inventory, transportation	single machine, parallel machine		Java	Cplex	surgery, patient		benchmark		936	1361
ArtiguesR00 [25]	20	no preempt, machine, preempt, release-date, job-shop, transportation, cmax, lateness, precedence, scheduling, completion-time, re-scheduling, make-span, resource, order, setup-time, job, activity, earliness, due-date	RCPSP	cycle, cumulative, disjunctive		OZ					1123	1548



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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
AstrandJZ20 [30]	13	resource, open-shop, task, machine, precedence, flow-shop, job-shop, re-scheduling, make-span, order, setup-time, job, activity, scheduling, completion-time, due-date	parallel machine	alldifferent, disjunctive, cycle	C++	OZ, Gecode	robot	potash industry, mining industry, mineral industry	benchmark, real-world, real-life		980	1405
BadicaBI20 [31]	17	machine, activity, make-span, manpower, completion-time, resource, precedence, scheduling, distributed, task, order	psplib	bin-packing, cycle	Prolog	Gecode, ECLiPSe			real-world, benchmark		981	1406
BajestaniB13 [34]	36	precedence, earliness, job-shop, resource, setup-time, preempt, scheduling, machine, inventory, transportation, due-date, order, tardiness, job, make-span, re-scheduling	single machine, parallel machine	cumulative, alwaysIn, circuit		OZ, Cplex	railway, aircraft				1052	1477
BajestaniB15 [35]	16	precedence, completion-time, sequence dependent setup, job-shop, resource, activity, setup-time, preempt, scheduling, machine, due-date, distributed, flow-time, order, tardiness, flow-shop, job, make-span	single machine	disjunctive, cumulative, circuit		OZ, Cplex	railway, semiconductor, robot		real-world		1035	1460
BaptisteB18 [37]	10	resource, task, machine, preempt, manpower, lazy clause generation, precedence, scheduling, make-span, order, job	parallel machine, RCPSP, psplib	cumulative, bin-packing		CHIP				time-tabling, edge-finding, edge-finder	1006	1431
BaptisteP00 [40]	21	resource, task, preempt, cmax, precedence, release-date, flow-shop, job-shop, scheduling, re-scheduling, make-span, order, job, activity, due-date	RCPSP	disjunctive, cumulative	C++	Claire, Ilog Scheduler, CHIP			benchmark	edge-finding, edge-finder, energetic reasoning	1124	1549
BartakCS10 [47]	31	resource, setup-time, task, job-shop, scheduling, machine, activity, flow-shop, order, job, precedence	RCPSP	disjunctive	Prolog	SICStus			benchmark, real-life, real-world		1077	1502
BartakS11 [48]	5	distributed, resource, scheduling, task, multi-agent, order		cumulative		OPL			random instance, real-world, real-life		1064	1489
BartakSR10 [49]	31	scheduling, machine, preempt, activity, flow-shop, order, temporal constraint reasoning, completion-time, make-span, cmax, job, precedence, release-date, open-shop, distributed, tardiness, resource, task, lateness, job-shop, multi-agent, due-date	TCSP, single machine, Temporal Constraint Satisfaction Problem	cumulative, disjunctive		CPO, Choco Solver, OPL	robot		real-life, real-world	edge-finding, not-last, sweep, not-first	1078	1503
Beck07 [55]	29	flow-shop, order, scheduling, precedence, make-span, machine, resource, job, job-shop, tardiness, activity		disjunctive		Ilog Scheduler			benchmark		1098	1523

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

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
BeckF00 [59]	51	precedence, release-date, resource, job-shop, due-date, preempt, machine, task, job, activity, order, inventory, make-span, scheduling, transportation	single machine	cumulative, disjunctive			robot		real-world, benchmark	not-last, edge-finding, not-first	1125	1550
BeckF98 [58]	30	precedence, release-date, resource, job-shop, due-date, preempt, machine, task, tardiness, multi-agent, re-scheduling, job, activity, order, distributed, inventory, make-span, scheduling	single machine	circuit, cumulative, disjunctive	Prolog		robot		real-world, benchmark	edge-finding	1136	1561
BeckFW11 [57]	14	order, cmax, scheduling, resource, completion-time, machine, job, job-shop, precedence, preempt, make-span		disjunctive, table constraint, cumulative	C++	Ilog Scheduler			real-world, benchmark		1065	1490
BeckR03 [61]	23	release-date, resource, job-shop, due-date, machine, tardiness, re-scheduling, job, completion-time, activity, order, inventory, earliness, make-span, scheduling, flow-shop, flow-time, precedence		disjunctive		Ilog Solver, Cplex, Ilog Scheduler	hoist		benchmark	edge-finder	1111	1536
BeckW07 [64]	50	job-shop, preempt, machine, task, tardiness, re-scheduling, job, activity, order, distributed, make-span, scheduling, flow-shop, flow-time, precedence, no preempt, resource	single machine, RCPSP			Ilog Scheduler	robot		benchmark	edge-finder, edge-finding	1099	1524
Bedhief21 [65]	7	setup-time, preempt, no preempt, sequence dependent setup, due-date, transportation, flow-shop, scheduling, make-span, completion-time, machine, job, order, release-date, tardiness	single machine, parallel machine	noOverlap		OZ, Cplex	robot, medical		real-life		968	1393
BegB13 [66]	23	scheduling, re-scheduling, machine, resource, task, completion-time, order, distributed	TMS	cycle			pipeline		benchmark		1053	1478
BeldiceanuC94 [69]	27	order, completion-time, scheduling, machine, task, precedence, resource		circuit, cumulative, diffn, alldifferent, cycle, bin-packing	Prolog	CPO, OPL, CHIP, OZ	pipeline, car manufacturing		real-world, real-life, benchmark		1146	1571
BeldiceanuCDP11 [71]	24	cmax, preempt, resource, task, order, scheduling		diffn, geost, disjunctive, cumulative, bin-packing	Prolog	SICStus, CHIP	rectangle-packing, perfect-square		benchmark	edge-finding, sweep, energetic reasoning	1066	1491

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
BelhadjiI98 [74]	9	precedence, release-date, job-shop, order, job, scheduling, resource, task, machine, preempt, due-date	Temporal Constraint Satisfaction Problem, TCSP, JSSP	disjunctive					real-life		1137	1562
Benders62 [76]	15	transportation, order, continuous-process		cycle							1159	1584
BenediktMH20 [77]	19	precedence, order, job, re-scheduling, task, job-shop, scheduling, machine	single machine	noOverlap, end-BeforeStart		Gurobi	robot		github, benchmark, random instance, generated instance		982	1407
BeniniLMR11 [80]	27	resource, order, activity, task, machine, preempt, release-date, tardiness, precedence, scheduling, re-scheduling, make-span	SCC, single machine	table constraint, cumulative, circuit		Ilog Scheduler, Cplex, OZ	pipeline		benchmark, real-world, instance generator		1067	1492
BensanaLV99 [81]	7	order		cycle		Cplex, Ilog Solver	satellite, earth observation, robot		benchmark		1134	1559
BidotVLB09 [84]	30	task, order, job-shop, due-date, machine, activity, make-span, re-scheduling, resource, inventory, job, precedence, release-date, scheduling, distributed, tardiness	JSSP	cumulative, disjunctive	C++	Ilog Scheduler, OPL	robot		real-world, real-life	edge-finder, edge-finding	1085	1510
BlazewiczLK83 [88]	14	job, order, due-date, completion-time, no preempt, preempt, scheduling, machine, task, lateness, job-shop, precedence, release-date, cmax, open-shop, flow-shop, resource, transportation				OZ					1158	1583
BocewiczBB09 [91]	19	job-shop, resource, multi-agent, precedence, scheduling, machine, transportation, order, tardiness, job, task, distributed, completion-time		cycle		OZ	robot			not-last	1086	1511
BonfiettiI6 [95]	13	order, activity, scheduling, resource, task, distributed, precedence		disjunctive, cumulative, circuit	C++	OZ	pipeline		benchmark		1026	1451
BonfiettiLBM14 [98]	28	buffer-capacity, scheduling, order, job, resource, make-span, activity, distributed, machine, precedence, task, job-shop	RCPSPP	circuit, cumulative, cycle		Ilog Solver	pipeline, hoist, robot, medical		real-world, generated instance, industrial instance, benchmark	time-tabling, sweep	1046	1471
BorghesiBLMB18 [104]	13	job, re-scheduling, make-span, resource, distributed, activity, task, machine, scheduling, order		cumulative, cycle			super-computer		benchmark, real-life		1007	1432
BourreauGGLT22 [107]	19	re-scheduling, scheduling, order, manpower, job, resource, precedence, transportation		disjunctive, alldifferent, diffn, cycle	C++	OZ, Choco Solver, Cplex, CHIP	crew-scheduling, nurse		real-world, benchmark		951	1376

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

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
BridiBLMB16 [109]	14	re-scheduling, make-span, job, scheduling, resource, order, machine, activity, distributed, tardiness		cycle, cumulative, circuit		OZ	medical, super-computer		real-world, real-life		1027	1452
Caballero23 [114]	1	resource, scheduling	RCPSP								937	1362
CampeauG22 [115]	18	task, order, activity, make-span, completion-time, precedence, resource, job, scheduling	RCPSP, RCPSPDC	alwaysIn, noOverlap, endBeforeStart, cumulative, cycle	Python	Cplex, OZ		mining industry	real-life, real-world	edge-finding	952	1377
CarlierP90 [120]	19	machine, make-span, job, tardiness, job-shop, due-date, scheduling, preempt, flow-shop, task, order, lateness, completion-time	single machine	disjunctive					benchmark		1154	1579
CauwelaertDS20 [125]	19	job-shop, scheduling, order, batch process, completion-time, sequence dependent setup, job, resource, make-span, activity, preempt, setup-time, machine, precedence, transportation, task		cycle, disjunctive, cumulative	Java	OZ	container terminal, patient		benchmark, real-life, bit-bucket, generated instance	not-last, edge-finding, not-first	983	1408
CauwelaertLS18 [124]	36	scheduling, order, job, resource, activity, machine, task, job-shop	psplib, RCPSP	circuit, different, packing, disjunctive, cumulative, table constraint	Java, Prolog	OZ, OPL, Gecode, CHIP			bitbucket, benchmark	energetic reasoning, not-last, edge-finding, time-tabling, not-first, sweep	1008	1433
ColT22 [136]	19	no preempt, tardiness, task, order, transportation, due-date, flow-shop, completion-time, distributed, preempt, scheduling, precedence, make-span, machine, batch process, resource, job, open-shop, job-shop, lateness, setup-time	single machine, PMSP, Open Shop Scheduling Problem, FJS, JSSP, OSSP, parallel machine	alldifferent, cumulative, noOverlap, circuit, disjunctive	Java, C++	MiniZinc, CPO, OR-Tools, Cplex, OPL	robot, semiconductor, oven scheduling		generated instance, supplementary material, github, real-life, benchmark, real-world		953	1378
CzerniachowskaWZ23 [138]	14	setup-time, transportation, flow-shop, machine, activity, order, completion-time, task, job, resource, job-shop, make-span, scheduling	PTC, JSSP, parallel machine	endBeforeStart, noOverlap		OPL, OZ, Cplex, CPO	automotive, robot	manufacturing industry, pharmaceutical industry, automotive industry	benchmark, Roadeff, real-world		938	1363
Darby-DowmanLMZ97 [140]	20	machine, scheduling, order, task, make-span, resource	MGAP, single machine	span constraint, disjunctive	Prolog	Cplex, ECLiPSe	pipeline, aircraft		real-life, real-world, benchmark		1140	1565
DechterMP91 [147]	35	scheduling, order, Allen's algebra, distributed, task	TCSP, Temporal Constraint Satisfaction Problem	disjunctive, cycle, circuit							1153	1578

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

Work	Pages	Concepts	Classification		Constraints		Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
DincbasSH90 [158]	19	task, machine, job-shop, distributed, precedence, scheduling, resource, order, job			circuit, disjunctive		Prolog	CHIP, OPL			real-life		1155	1580
DoulabiRP16 [161]	17	scheduling, resource, machine, distributed, transportation, order	single machine		cycle, bin-packing			OPL, Cplex	surgery, nurse, operating room, medical, patient, steel mill, rectangle-packing, crew-scheduling, robot		real-world, generated instance		1028	1453
EscobetQPRA19 [167]	10	task, job-shop, release-date, scheduling, order, batch process, job, resource, activity, distributed, machine, due-date			alternative constraint, noOverlap, circuit, cycle			OPL, Cplex	energy-price, dairy	food industry, manufacturing industry			995	1420
EvenSH15a [169]	16	preempt, distributed, transportation, resource, scheduling, completion-time, task, machine, order			disjunctive, cumulative		Java	Choco Solver, OPL	emergency service		real-world, real-life	sweep	1036	1461
FahimiOQ18 [170]	22	completion-time, resource, job, precedence, batch process, lazy clause generation, open-shop, scheduling, distributed, setup-time, task, order, lateness, job-shop, due-date, machine, preempt, make-span, sequence dependent setup	RCPSP, psplib		cumulative, disjunctive, alldifferent			Choco Solver			benchmark, random instance	not-last, time-tabling, sweep, edge-finding, not-first	1009	1434
FalaschiGMP97 [171]	27	order, scheduling					Prolog						1141	1566
FallahiAC20 [172]	18	order, resource, task, transportation, scheduling			cycle			OR-Tools, OZ	robot, nurse, medical, container terminal		github, real-life	sweep	984	1409
FanXG21 [173]	15	due-date, no preempt, preempt, tardiness, job, order, batch process, machine, task, earliness, completion-time, flow-shop, distributed, precedence, setup-time, resource, make-span, job-shop, scheduling, flow-time	single machine, parallel machine		cycle		Java, Python	OZ, ECLiPSe, Cplex, Gurobi	semiconductor	manufacturing industry	benchmark	max-flow	969	1394
FarsiTM22 [174]	14	completion-time, tardiness, continuous-process, re-scheduling, earliness, distributed, task, resource, scheduling, make-span			circuit, alldifferent			Cplex	physician, robot, medical, nurse, operating room, patient, surgery		supplementary material	time-tabling	954	1379

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

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
FetgoD22 [176]	32	task, precedence, cmax, preempt, lazy clause generation, make-span, order, scheduling, resource, completion-time	CuSP, RCPSP	cumulative	Python, Java	OZ, CHIP, Choco Solver			benchmark, real-world	not-first, not-last, energetic reasoning, edge-finding, sweep, edge-finder, time-tabling	956	1381
GarridoAO09 [187]	30	re-scheduling, precedence, scheduling, make-span, resource, order, task		disjunctive	Java	CPO, OPL, Choco Solver			benchmark		1087	1512
GarridoOS08 [188]	11	scheduling, make-span, resource, order, activity, task, machine			Java, C	Choco Solver, CPO			real-world		1093	1518
GedikKEK18 [193]	11	cmax, resource, job, setup-time, due-date, scheduling, tardiness, task, order, machine, preempt, make-span, sequence dependent setup, completion-time, transportation	single machine, parallel machine, PMSP	cumulative, noOverlap		Cplex, OZ	nurse, medical	manufacturing industry	benchmark		1010	1435
GoelSHFS15 [206]	12	precedence, resource, inventory, setup-time, scheduling, activity, task, order, transportation, machine		cumulative, noOverlap, disjunctive, alwaysIn		OPL, Cplex, CPO	pipeline				1037	1462
GokgurHO18 [207]	17	setup-time, task, earliness, job-shop, due-date, scheduling, machine, preempt, activity, flow-shop, order, completion-time, transportation, make-span, cmax, job, precedence, release-date, tardiness, resource	single machine, parallel machine	alternative constraint, cumulative, disjunctive		OZ, OPL, CHIP	robot, semiconductor		real-life, real-world	not-first, edge-finding, energetic reasoning, not-last	1011	1436
GoldwaserS18 [209]	32	scheduling, machine, transportation, due-date, order, flow-shop, task, lazy clause generation, resource		cumulative	Python	Chuffed, Gurobi, CHIP, Gecode	torpedo	steel industry	instance generator, github, benchmark, generated instance	time-tabling, sweep	1012	1437
GrimesIOS14 [216]	16	completion-time, due-date, resource, task, machine, preempt, distributed, re-scheduling, order, activity, scheduling		disjunctive		Cplex, CHIP	energy-price, real-time pricing, HVAC		real-world, real-life		1047	1472
GurEA19 [566]	24	order, distributed, resource, job-shop, scheduling, re-scheduling, job, completion-time				OZ, Cplex	patient, medical, surgery, operating room		real-life		996	1421
GurPAE23 [222]	25	re-scheduling, order, scheduling, distributed, resource, inventory, machine		cumulative		OPL, Cplex, OZ	physician, surgery, patient, operating room, COVID, nurse		real-life		939	1364

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
HachemiGR11 [223]	16	task, precedence, job-shop, transportation, make-span, scheduling, resource, order, job, activity		cycle, alldifferent		OPL, Ilog Scheduler, Cplex	crew-scheduling, forestry	food industry			1068	1493
Ham18 [224]	14	cmax, precedence, batch process, resource, completion-time, make-span, scheduling, machine, inventory, transportation, job-shop, job, distributed, sequence dependent setup, due-date, task, order	parallel machine	cumulative, noOverlap, endBeforeStart, disjunctive, cycle		Cplex, OPL	drone, robot, aircraft, semiconductor				1013	1438
HamPK21 [225]	12	distributed, precedence, cmax, setup-time, resource, make-span, job-shop, scheduling, sequence dependent setup, tardiness, re-scheduling, order, machine, task, job, completion-time, flow-shop	parallel machine, single machine, FJS	noOverlap, endBeforeStart, cycle		OPL, Cplex	robot, agriculture, semiconductor		benchmark, github		970	1395
HebrardHJMPV16 [233]	10	completion-time, resource, task, cmax, distributed, machine, scheduling, order, job, make-span	parallel machine	cumulative		OZ	satellite, earth observation		industrial partner		1030	1455
HeckmanB11 [236]	20	resource, job, scheduling, tardiness, order, job-shop, machine, activity, make-span, flow-shop, precedence		disjunctive		Ilog Scheduler			benchmark, real-world	edge-finding, edge-finder	1069	1494
HeinzNVH22 [242]	16	activity, make-span, job, precedence, re-scheduling, distributed, resource, setup-time, scheduling, preempt, sequence dependent setup, flow-shop, task, order, completion-time, machine	parallel machine	cumulative, noOverlap, alternative constraint		Gurobi	robot, crew-scheduling		real-world, generated instance, benchmark, gitlab		957	1382
HeinzSB13 [241]	36	preempt, due-date, resource, scheduling, precedence, order, completion-time, machine, job, release-date	RCPSP, single machine, psplib	disjunctive, cumulative		MiniZinc, Cplex	satellite		benchmark	time-tabling, edge-finding	1054	1479
HeinzSSW12 [239]	12	inventory, task, order		bin-packing		Cplex	steel mill	steel industry, process industry	real-world, CSPLib		1057	1482
HeipckeCCS00 [244]	8	make-span, release-date, resource, activity, precedence, completion-time, job-shop, due-date, preempt, scheduling, order, machine, job, task	single machine, RCPSP	disjunctive, cumulative					benchmark, instance generator		1126	1551
Hooker05 [252]	17	machine, job, task, precedence, release-date, due-date, make-span, order, tardiness, scheduling, distributed, resource		cumulative, circuit, disjunctive		Cplex, OPL, Ilog Scheduler			random instance	edge-finding	1107	1532
Hooker06 [254]	19	machine, job, task, precedence, release-date, due-date, make-span, order, tardiness, scheduling, resource		cumulative, circuit, disjunctive		Cplex, OPL, Ilog Scheduler			random instance		1103	1528

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
HookerH18 [259]	24	preempt, job-shop, transportation, flow-shop, resource, scheduling, open-shop, task, multi-agent, order, machine, tardiness, job, activity, setup-time, release-date, sequence dependent setup	Open Shop Scheduling Problem, RCPSP, parallel machine	circuit, bin-packing, cumulative, alldifferent, disjunctive, regular expression		CHIP, ECLiPSe, OZ, OPL, MiniZinc, Ilog Solver	aircraft, crew-scheduling, radiation therapy, nurse, physician, operating room		real-world, real-life	not-first, time-tabling, edge-finding, not-last, bi-partite matching, energetic reasoning	1014	1439
HookerO03 [258]	28	due-date, resource, scheduling, task, order, machine, job, release-date		cumulative, disjunctive, circuit		OPL, Cplex, Ilog Scheduler			generated instance		1112	1537
HubnerGSV21 [262]	22	completion-time, resource, order, job, inventory, activity, due-date, task, machine, preempt, transportation, cmax, tardiness, make-span, precedence, scheduling	RCPSPDC, RCPSP	cycle, cumulative, end-BeforeStart, alternative constraint	C	Gurobi, Cplex, OPL	automotive		benchmark, real-life		971	1396
IsikYA23 [265]	28	tardiness, scheduling, machine, distributed, job, resource, completion-time, flow-shop, batch process, setup-time, job-shop, release-date, due-date, task, precedence, transportation, earliness, order, cmax, sequence dependent setup, preempt, make-span	parallel machine, single machine	circuit, noOverlap, cumulative, endBeforeStart		OPL, Cplex, OZ	medical, robot	steel industry	real-world, benchmark, generated instance, real-life	energetic reasoning	940	1365
Kameugne15 [274]	2	resource, scheduling, task, preempt, completion-time		cumulative						not-last, edge-finding, not-first	1039	1464
KameugneFSN14 [278]	27	job-shop, release-date, resource, precedence, job, order, preempt, scheduling, make-span, completion-time, task	RCPSP, psplib, CuSP	disjunctive, cumulative		CHIP, Gecode			random instance, benchmark	energetic reasoning, edge-finding, not-last, not-first, edge-finder, time-tabling	1048	1473
KelbelH11 [281]	10	release-date, inventory, earliness, due-date, preempt, job-shop, resource, scheduling, make-span, distributed, task, precedence, order, completion-time, machine, tardiness, job	JSSP	cumulative, disjunctive		Ilog Solver, OPL, Cplex			benchmark, random instance, generated instance	edge-finder, edge-finding	1070	1495
KhayatLR06 [283]	15	job-shop, due-date, scheduling, preempt, task, order, machine, activity, make-span, cmax, job, precedence, resource, setup-time				OPL, Cplex			real-life, benchmark		1104	1529



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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
KoehlerBFFHPSSS21 [288]	51	flow-shop, scheduling, lateness, job, task, make-span, machine, tardiness, precedence, resource, job-shop, flow-time, order	CTW, single machine	cycle, circuit, cumulative, disjunctive, alldifferent	C , Python	Z3, MiniZinc, OPL, Cplex, Gurobi, OR-Tools, Chuffed	cable tree, automotive, robot		real-world, benchmark, github		972	1397
KorbaaYG00 [291]	10										1127	1552
KovacsB08 [294]	7	order, tardiness, job, activity, preempt, release-date, resource, scheduling, completion-time, machine	single machine	bin-packing, disjunctive, cumulative, cycle		Ilog Scheduler, Ilog Solver	aircraft		benchmark	sweep	1094	1519
KovacsB11 [295]	24	flow-time, precedence, order, tardiness, job, activity, preempt, release-date, earliness, distributed, due-date, job-shop, flow-shop, resource, scheduling, make-span, completion-time, machine	parallel machine, single machine	disjunctive, cumulative, cycle	C++	Ilog Scheduler, Ilog Solver			benchmark	edge-finding	1071	1496
KovacsK11 [297]	24	tardiness, job, release-date, earliness, sequence dependent setup, due-date, job-shop, transportation, flow-shop, resource, scheduling, completion-time, task, machine, order	single machine	cycle	C++	Ilog Solver, Gecode, Cplex					1072	1497
KreterSS17 [302]	31	scheduling, task, order, machine, preempt, activity, make-span, completion-time, precedence, resource, lazy clause generation	RCPSP, parallel machine	cycle, alwaysIn, cumulative, diffn		CPO, Cplex, MiniZinc, CHIP, Chuffed			benchmark	edge-finding	1022	1447
KuchcinskiW03 [305]	15	scheduling, precedence, resource, distributed, order		cycle, circuit	Java		pipeline		benchmark		1113	1538
Laborie03 [308]	38	task, precedence, order, cmax, machine, job, activity, re-scheduling, setup-time, release-date, inventory, preempt, job-shop, resource, scheduling, make-span		cycle, table constraint, cumulative, disjunctive	C++	Ilog Scheduler			benchmark	edge-finding, not-last, energetic reasoning, not-first, time-tabling	1114	1539
LaborieRSV18 [311]	41	release-date, job-shop, resource, activity, precedence, sequence dependent setup, earliness, scheduling, machine, inventory, transportation, manpower, due-date, setup-time, batch process, order, tardiness, flow-shop, job, make-span, re-scheduling, task, distributed	psplib, parallel machine, RCPSP	alternative constraint, cumulative, noOverlap, disjunctive, span constraint, cycle, alwaysIn, endBeforeStart	C , Python, C++, Java	CHIP, Gecode, Ilog Solver, Cplex, Ilog Scheduler, OPL, Choco Solver, CPO	semiconductor, railway, container terminal, satellite, robot, pipeline, aircraft, shipping line	chemical industry, petrochemical industry	real-world, CSPLib, benchmark	edge-finding	1016	1441

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
LacknerMMWW23 [313]	42	release-date, batch process, setup-time, job, order, due-date, tardiness, scheduling, make-span, machine, task, lateness, job-shop, earliness	parallel machine, OSP, single machine	alternative constraint, disjunctive, bin-packing, noOverlap, cumulative, endBeforeStart		Chuffed, Cplex, OPL, CPO, OR-Tools, MiniZinc, Gurobi	semiconductor oven scheduling	electronics industry, steel industry, manufacturing industry	random instance, industrial partner, benchmark, instance generator, zenodo, real-life	time-tabling	941	1366
LammaMM97 [315]	15	job-shop, resource, scheduling, precedence, order, task, job, distributed		circuit, disjunctive	C++, Prolog	ECLiPSe, OPL, CHIP	railway		real-life		1143	1568
LetortCB15 [321]	52	machine, make-span, job, precedence, resource, scheduling, task, order	psplib	cumulative, cycle, bin-packing	Java, Prolog	Choco Solver, CHIP, SICStus			generated instance, Roade, benchmark, random instance	energetic reasoning, sweep, edge-finding	1040	1465
LiessM08 [323]	12	preempt, resource, scheduling, machine, job, activity, precedence, job-shop, task, make-span, order, cmax	RCPSP, psplib	disjunctive, cumulative	C++	OZ			benchmark	edge-finding	1095	1520
LimtanyakulS12 [328]	32	release-date, scheduling, order, completion-time, job, resource, activity, tardiness, machine, due-date, precedence		table constraint, disjunctive, bin-packing, cumulative		OZ, Ilog Scheduler, Cplex	robot, automotive	automotive industry	random instance, real-life, generated instance, industrial partner, benchmark	not-last, energetic reasoning, not-first, edge-finding	1058	1483
LombardiM10a [337]	30	due-date, distributed, order, job, make-span, release-date, re-scheduling, task, completion-time, resource, activity, precedence, preempt, scheduling, machine	TCSP	cycle, span constraint, cumulative, disjunctive, table constraint	C	Cplex			real-world, benchmark, real-life	sweep	1080	1505
LombardiM12 [340]	35	precedence, flow-shop, job-shop, transportation, completion-time, re-scheduling, make-span, sequence dependent setup, order, setup-time, job, activity, earliness, scheduling, due-date, resource, task, machine, inventory, preempt, distributed, manpower, lazy clause generation, tardiness	parallel machine, RCPSP, psplib	cycle, disjunctive, cumulative, circuit		OZ, OR-Tools	aircraft	chemical industry	real-world, benchmark	energetic reasoning, edge-finding	1059	1484
LombardiM12a [339]	10	order, make-span, completion-time, resource, activity, precedence, producer/consumer, scheduling	psplib, RCPSP	disjunctive		Ilog Solver			benchmark		1060	1485
LopesCSM10 [342]	39	distributed, stock level, resource, inventory, job-shop, due-date, scheduling, activity, task, order, transportation, make-span, job, precedence, re-scheduling		disjunctive, table constraint, cycle, alldifferent	C++	Ilog Scheduler, Ilog Solver, OZ, OPL	pipeline	oil industry	benchmark, real-world	max-flow	1081	1506
LopezAKYG00 [343]	4										1128	1553

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
LorigeonBB02 [344]	8	setup-time, preempt, scheduling, machine, order, flow-shop, job, cmax, make-span, open-shop, completion-time, resource, activity	parallel machine, Open Shop Scheduling Problem			OZ, Cplex, OPL					1117	1542
LunardiBLRV20 [346]	20	scheduling, due-date, make-span, machine, completion-time, job-shop, flow-shop, resource, precedence, setup-time, activity, re-scheduling, job, order, tardiness, preempt	FJS	endBeforeStart, noOverlap	Python	Cplex			benchmark, random instance, generated instance, github		985	1410
MalikMB08 [356]	18	distributed, resource, scheduling, machine, precedence, order		cycle			pipeline		benchmark	edge-finding	1096	1521
MartinPY01 [358]	17	scheduling, task, order, machine, transportation, re-scheduling, resource		circuit	Prolog	ECLiPSe, Ilog Solver	railway, aircraft		real-life		1121	1546
Mason01 [359]	38	scheduling, order, task, activity, transportation				OPL, OZ, Cplex	railway, crew-scheduling, nurse				1122	1547
MejiaY20 [361]	13	resource, completion-time, machine, setup-time, job, job-shop, open-shop, cmax, sequence dependent setup, release-date, preempt, due-date, re-scheduling, make-span, transportation, multi-agent, order, tardiness, scheduling, distributed	Open Shop Scheduling Problem, OSSP, parallel machine	disjunctive	Java	Cplex, ECLiPSe	agriculture, robot		supplementary material, benchmark, generated instance		986	1411
MengZRZL20 [363]	13	earliness, job-shop, scheduling, machine, preempt, sequence dependent setup, flow-time, flow-shop, order, completion-time, transportation, make-span, cmax, job, precedence, batch process, open-shop, distributed, tardiness, resource, no preempt, setup-time, task	Open Shop Scheduling Problem, OSP, parallel machine, FJS	alternative constraint, noOverlap, endBeforeStart		OPL, Gecode, Gurobi, OR-Tools, Cplex	robot, semi-conductor		supplementary material, benchmark		987	1412
MokhtarzadehTNF20 [367]	14	task, make-span, multi-agent, setup-time, distributed, manpower, precedence, resource, completion-time, machine, scheduling, order, job	parallel machine	alldifferent, cycle, circuit		Cplex	robot, crew-scheduling		generated instance, real-world	time-tabling	988	1413
MontemanniD23 [371]	13	resource, distributed, order, scheduling, machine, task		circuit	Python	OPL, OR-Tools, Gurobi	robot, drone		benchmark, supplementary material		942	1367
MontemanniD23a [370]	20	order, completion-time, task, transportation, scheduling		circuit	Python	OR-Tools	drone		benchmark		943	1368

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Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
MullerMKP22 [375]	18	precedence, job-shop, batch process, scheduling, completion-time, make-span, order, setup-time, job, activity, due-date, resource, task, machine, preempt, cmax	FJS	disjunctive, circuit	Java, Python	Chuffed, MiniZinc, OZ, Gecode, Choco Solver, OPL, Cplex, OR-Tools	robot, semiconductor		benchmark, random instance, real-world, github		958	1383
NaderiBZ22 [380]	29	distributed, resource, setup-time, job-shop, open-shop, due-date, scheduling, tardiness, flow-shop, order, lateness, transportation, machine, make-span, completion-time, job	single machine, parallel machine	disjunctive, noOverlap		Cplex, CPO, OZ	operating room, nurse, patient, crew-scheduling, automotive, surgery		benchmark, real-life		959	1384
NaderiRR23 [381]	27	preempt, sequence dependent setup, flow-shop, task, order, earliness, transportation, machine, make-span, cmax, completion-time, job, precedence, re-scheduling, distributed, resource, setup-time, job-shop, open-shop, due-date, scheduling, tardiness	RCPSP, FJS, OSP, Open Shop Scheduling Problem, PMSP, PTC, single machine, parallel machine	cumulative, noOverlap, endBeforeStart, disjunctive, alternative constraint	Python	CPO, OZ, Z3, Gurobi, Cplex	crew-scheduling, automotive, operating room		github, benchmark		944	1369
NattafAL15 [382]	21	resource, release-date, due-date, scheduling, preempt, task, order, activity, make-span	CECSP, CuSP, RCPSP	cumulative	C++	Cplex			generated instance	sweep, energetic reasoning	1041	1466
NattafAL17 [383]	18	resource, release-date, scheduling, task, order, activity, make-span, job	CECSP	disjunctive, cumulative	C++	Cplex			real-world	edge-finding, energetic reasoning	1023	1448
NishikawaSTT19 [389]	16	re-scheduling, make-span, order, preempt, resource, activity, task, distributed, machine, precedence, scheduling	parallel machine	cumulative, alternative constraint		Cplex, OZ	pipeline, robot		real-world, benchmark		997	1422
NovaraNH16 [390]	17	earliness, machine, make-span, job, precedence, batch process, re-scheduling, tardiness, resource, setup-time, due-date, scheduling, activity, sequence dependent setup, manpower, task, order, completion-time		cumulative, noOverlap, endBeforeStart, disjunctive, alternative constraint		OPL, Cplex		pharmaceutical industry	CSPLib, benchmark		1032	1457
Novas19 [391]	13	inventory, lateness, setup-time, resource, make-span, scheduling, flow-shop, transportation, flow-time, precedence, cmax, release-date, job-shop, sequence dependent setup, due-date, machine, task, tardiness, job, completion-time, activity, order, distributed	parallel machine, FJS	cycle, cumulative, noOverlap, endBeforeStart		OPL, Cplex	OZ, medical, semiconductor, robot		benchmark		998	1423

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

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
NovasH10 [392]	20	precedence, batch process, due-date, re-scheduling, make-span, earliness, order, tardiness, scheduling, resource, completion-time, machine, setup-time, lateness, job, task, manpower, activity				OZ, OPL, Ilog Scheduler	pipeline				1082	1507
NovasH12 [393]	17	precedence, make-span, transportation, order, scheduling, resource, completion-time, machine, job, task, activity		cycle		Ilog Solver, OZ, OPL, Ilog Scheduler	semiconductor robot, hoist, electro-plating, container terminal				1061	1486
NovasH14 [394]	14	precedence, make-span, transportation, order, scheduling, buffer-capacity, resource, completion-time, machine, job, job-shop, task, activity	parallel machine, single machine			Ilog Solver, OPL, Ilog Scheduler	robot		benchmark		1049	1474
NuijtenP98 [396]	16	resource, setup-time, job-shop, scheduling, preempt, manpower, flow-shop, task, order, completion-time, transportation, machine, make-span, job, precedence	JSSP, single machine	disjunctive	C++	Ilog Solver, Ilog Scheduler, OPL	satellite		real-life	edge-finding	1138	1563
OhrimenkoSC09 [398]	35	completion-time, lazy clause generation, scheduling, make-span, machine, open-shop, resource, order, job	Open Shop Scheduling Problem	disjunctive, alldifferent		Gecode, OZ			benchmark		1089	1514
OzturkTHO13 [403]	36	order, setup-time, job, activity, scheduling, completion-time, resource, task, machine, preempt, cmax, precedence, flow-shop, make-span	SBSFMMAL	cycle, disjunctive, cumulative		OPL, Cplex, CHIP, Ilog Solver, OZ			real-world, real-life	edge-finding	1055	1480
PandeyS21a [404]	29	make-span, re-scheduling, job, precedence, distributed, resource, task, scheduling, machine, activity, flow-shop, order, completion-time	single machine, parallel machine, PMSP	cumulative, endBeforeStart, alternative constraint		OPL, Cplex, OZ	semiconductor		benchmark		973	1398
PapaB98 [407]	25	due-date, preempt, machine, re-scheduling, job, activity, order, task, make-span, completion-time, scheduling, flow-shop, distributed, cmax, setup-time, resource, job-shop	PJSSP, JSSP	cumulative, table constraint, disjunctive	C++	Ilog Solver, CHIP, Claire	hoist		benchmark	edge-finder, energetic reasoning, edge-finding	1139	1564
PoderBS04 [415]	16	preempt, due-date, resource, scheduling, precedence, order, task, machine, activity, producer/consumer, release-date	RCPSP	cumulative	Prolog	CHIP		chemical industry			1110	1535

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

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
PohlAK22 [416]	16	resource, activity, completion-time, setup-time, lateness, release-date, precedence, transportation, earliness, order, sequence dependent setup, re-scheduling, tardiness, inventory, scheduling, machine, job	SCC, single machine	noOverlap, cumulative	Python	Gurobi, Cplex, OZ	aircraft		benchmark, real-world		960	1385
Polo-MejiaALB20 [417]	18	cmax, resource, preempt, precedence, earliness, tardiness, task, due-date, job, order, activity, release-date, make-span, machine, scheduling, completion-time, setup-time	RCPSP	alternative constraint, alwaysIn, cumulative, noOverlap, disjunctive, endBeforeStart	C++	Cplex, CPO			Roadef, github		989	1414
PourDERB18 [419]	12	scheduling, task, order, machine, transportation, job				Cplex, OR-Tools	crew-scheduling, railway		real-life, benchmark, real-world, generated instance		1017	1442
PrataAN23 [423]	17	machine, tardiness, job, lateness, activity, re-scheduling, flow-time, setup-time, release-date, inventory, earliness, sequence dependent setup, distributed, due-date, preempt, job-shop, batch process, flow-shop, resource, scheduling, make-span, open-shop, completion-time, task, precedence, order	single machine, parallel machine, Open Shop Scheduling Problem	circuit, cumulative		OZ, CHIP	robot, aircraft, energy-price, dairy	manufacturing industry	benchmark, real-world, real-life	time-tabling	931	1356
QinDCS20 [426]	18	transportation, order, cmax, tardiness, scheduling, resource, completion-time, machine, setup-time, job, task, activity, precedence, make-span	parallel machine	endBeforeStart, cycle, noOverlap		Cplex, OPL	yard crane, shipping line, container terminal		real-life, benchmark		990	1415
QinWSLS21 [425]	12	preempt, job-shop, flow-shop, batch process, scheduling, make-span, order, cmax, completion-time, machine, tardiness, job, lateness	single machine		C++	OZ, OPL, Cplex	agriculture, semiconductor				974	1399
Rodriguez07 [433]	15	precedence, job-shop, transportation, job, scheduling, resource, order, task, preempt, activity, due-date		disjunctive, circuit		Ilog Solver, Ilog Scheduler, Cplex, Z3	railway, satellite		real-life		1101	1526
RodriguezDG02 [432]	10	completion-time, scheduling, resource, transportation, activity, order		circuit, disjunctive			railway			edge-finding	1118	1543
RuggieroBBMA09 [435]	14	scheduling, order, resource, activity, preempt, setup-time, distributed, machine, precedence, task		circuit, cumulative, cycle		OZ, Ilog Solver, Ilog Scheduler, Cplex	pipeline, satellite		instance generator, real-life		1090	1515

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 [436]	33	preempt, distributed, machine, precedence, task, flow-shop, job-shop, open-shop, transportation, scheduling, order, completion-time, job, resource, make-span, activity	parallel machine, Open Shop Scheduling Problem	disjunctive, cumulative, alternative constraint, end-BeforeStart, noOverlap	Java	Cplex, OZ, CPO	container terminal		benchmark, real-life, zenodo, real-world		991	1416
SadykovW06 [438]	9	scheduling, lateness, due-date, machine, completion-time, job, release-date	single machine, parallel machine	disjunctive		CHIP	robot		generated instance		1105	1530
SakkoutW00 [439]	30	scheduling, distributed, task, order, job-shop, machine, preempt, activity, precedence, transportation, re-scheduling, resource, job	KRFP, single machine	bin-packing, disjunctive		CHIP, Cplex	emergency service, aircraft		benchmark, real-world	edge-finding, edge-finder	1129	1554
SchausHMCMD11 [440]	23	order, task	SCC	bin-packing			steel mill	steel industry	benchmark, CSPLib, generated instance		1073	1498
SchildW00 [441]	23	distributed, job-shop, flow-shop, resource, scheduling, completion-time, task, machine, precedence, order, job	single machine	disjunctive, cycle, bin-packing		OZ, Ilog Solver	automotive	automotive industry, aerospace industry		time-tabling, edge-finding	1130	1555
SchuttFSW11 [447]	33	scheduling, completion-time, resource, open-shop, order, task, machine, preempt, activity, lazy clause generation, precedence, make-span	psplib, RCPSP	disjunctive, cumulative, circuit, span constraint		Ilog Scheduler, ECLiPSe, CHIP, SICStus, OZ			benchmark, real-world	not-last, not-first, edge-finding, edge-finder	1074	1499
SchuttFSW13 [448]	17	scheduling, resource, order, setup-time, task, machine, preempt, activity, cmax, lazy clause generation, precedence, release-date	SCC, psplib, RCPSP	cycle, disjunctive, cumulative	C++	CHIP, OZ			benchmark, supplementary material		1056	1481
ShaikhK23 [454]	12	order, job, activity, re-scheduling, distributed, job-shop, resource, scheduling, open-shop, task, machine					medical, drone		benchmark, real-world	time-tabling	945	1370
ShinBBHO18 [457]	16	scheduling, task, order, machine, preempt, activity, transportation, resource, inventory, job					patient, physician, medical, nurse		github, real-world		1018	1443
Siala15 [458]	2	resource, scheduling		disjunctive					benchmark		1042	1467
SimoninAHL15 [462]	23	resource, activity, precedence, preempt, scheduling, order, inventory, transportation, task, make-span		disjunctive, span constraint, cumulative, cycle		CHIP	earth observation, satellite, pipeline, robot			sweep	1043	1468

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 [466]	30	due-date, job-shop, batch process, transportation, resource, scheduling, make to order, task, machine, producer/consumer, order, bill of material, job, activity, re-scheduling, setup-time, release-date, sequence dependent setup		disjunctive, cumulative, alldifferent, cycle, diffn, bin-packing	Prolog	OZ, OPL, CHIP, Ilog Scheduler	aircraft, patient, nurse, medical			time-tabling, sweep, bi-partite matching	1102	1527
SourdN00 [469]	12	make-span, order, scheduling, resource, completion-time, machine, setup-time, job, job-shop, flow-shop, precedence, open-shop, cmax, release-date, preempt	single machine, JSSP	disjunctive, cumulative		Ilog Scheduler	robot		real-life, benchmark	edge-finding, not-first	1132	1557
SubulanC22 [471]	38	scheduling, tardiness, task, order, due-date, machine, preempt, activity, make-span, BOM, completion-time, precedence, transportation, resource, inventory	RCPSp	endBeforeStart, cumulative		Cplex, OZ, OPL	offshore		real-life, benchmark, real-world		962	1387
SureshMOK06 [474]	19	distributed, scheduling, buffer-capacity, order, job, task, machine		cumulative, cycle		Z3, OZ					1106	1531
TangLWSK18 [479]	28	scheduling, task, order, preempt, activity, job, transportation, re-scheduling, resource	RCPSp	cycle, circuit	C	Cplex, OZ, OPL	crew-scheduling, railway, pipeline				1019	1444
TerekhovTDB14 [486]	38	flow-shop, cmax, resource, order, inventory, activity, re-scheduling, job, distributed, completion-time, no preempt, tardiness, preempt, job-shop, scheduling, flow-time, make-span, buffer-capacity, machine, release-date, task	parallel machine, single machine			Ilog Scheduler, Cplex	semiconductor robot		real-world		1050	1475
ThiruvadyWGS14 [490]	34	order, completion-time, resource, activity, tardiness, distributed, machine, precedence, task, job, make-span, scheduling	psplib, single machine	cumulative				mining industry	benchmark		1051	1476
Timpe02 [492]	18	due-date, order, machine, inventory, task, job, activity, stock level, setup-time, resource, make-span, scheduling, producer/consumer		cumulative, disjunctive, diffn, cycle	C++	CHIP, Cplex		chemical industry, process industry			1119	1544
TopalogluO11 [494]	10	order, re-scheduling, task, distributed, transportation, preempt, scheduling				Cplex, OPL, Ilog Solver	surgery, nurse, medical, physician, emergency service, patient		real-life	time-tabling	1075	1500



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

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
TranPZLDB18 [501]	17	task, machine, preempt, distributed, re-scheduling, make-span, scheduling, completion-time, resource, order, job	single machine	bin-packing	C++	Cplex, OZ			benchmark, generated instance		1020	1445
TranVNB17 [503]	68	resource, scheduling, multi-agent, precedence, order, task, machine, job, activity, re-scheduling, transportation		noOverlap, alternative constraint, cumulative		OPL, MiniZinc, Cplex	satellite, robot, medical		real-world		1024	1449
TrojetHL11 [506]	7	order, job-shop, machine, activity, make-span, completion-time, job, precedence, distributed, resource, due-date, scheduling, task	RCPSP	cumulative, diffn, disjunctive, cycle, alldifferent	Prolog	OZ, CHIP, SICStus	robot		real-world		1076	1501
Tsang03 [507]	2	resource, scheduling							real-life	time-tabling	1115	1540
VilimBC05 [523]	23	setup-time, sequence dependent setup, distributed, job-shop, batch process, resource, scheduling, make-span, open-shop, completion-time, task, machine, precedence, order, job, activity		disjunctive, cumulative, cycle					benchmark, real-life	not-first, sweep, edge-finding, not-last	1108	1533
VlkHT21 [526]	14	tardiness, due-date, completion-time, order, distributed, precedence, resource, scheduling	PMSP	alternative constraint, noOverlap		OPL, Cplex, Gurobi, Z3	automotive, robot		industrial partner, random instance, github, benchmark		975	1400
Wallace96 [528]	30	job-shop, transportation, distributed, task, resource, scheduling, multi-agent, order, machine, job, activity		circuit, disjunctive, cycle	Prolog, Lisp	CHIP, Ilog Solver, ECLiPSe, OZ, OPL	automotive, aircraft, railway, robot	process industry, automotive industry		time-tabling	1145	1570
WallaceY20 [529]	19	scheduling, machine, flow-shop, order, transportation, job, lazy clause generation, resource, task, job-shop	CHSP	circuit, cumulative, disjunctive, cycle		Chuffed, OPL, Gecode, Gurobi, Cplex, MiniZinc	robot, hoist, electroplating, yard crane, container terminal		random instance, real-life, real-world, benchmark	edge-finding, time-tabling	992	1417
WangMD15 [532]	13	make-span, scheduling, job, resource, activity, completion-time, job-shop, task, precedence, order, cmax, re-scheduling		noOverlap, cumulative		OPL, Cplex, OZ	nurse, operating room, surgery, medical, physician, patient		real-life, real-world	time-tabling	1044	1469
WikarekS19 [536]	22	multi-agent, scheduling, machine, preempt, manpower, flow-shop, order, make-span, cmax, resource, inventory, job, precedence, distributed, setup-time, task, job-shop	JSSP, RCPSP	cumulative, disjunctive		OZ, Z3, ECLiPSe	robot				1000	1425
YounespourAKE19 [544]	11	precedence, re-scheduling, resource, inventory, order, scheduling, completion-time, cmax, activity, make-span, distributed, machine		noOverlap, alternative constraint, span constraint, cumulative		OPL, Z3	operating room, nurse, medical, surgery, patient		real-life, real-world		1001	1426

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

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
YunusogluY22 [546]	18	due-date, batch process, order, tardiness, job, cmax, make-span, release-date, re-scheduling, lateness, flow-time, precedence, completion-time, sequence dependent setup, job-shop, resource, activity, setup-time, earliness, preempt, scheduling, machine, inventory, transportation	PMSp, parallel machine	noOverlap, bin-packing, endBeforeStart, cumulative		Cplex, OPL, OZ	robot, medical		real-world, benchmark, generated instance, real-life, supplementary material		963	1388
YuraszeckMCCR23 [549]	11	setup-time, cmax, activity, make-span, machine, open-shop, precedence, resource, preempt, batch process, task, flow-shop, order, scheduling, job, job-shop, flow-time	RCPSP, Open Shop Scheduling Problem, JSSP, FJS, OSSP	endBeforeStart, cumulative		OPL, Cplex		pharmaceutical industry	github, real-world, benchmark		946	1371
YuraszeckMPV22 [548]	26	completion-time, sequence dependent setup, resource, setup-time, task, distributed, open-shop, machine, due-date, transportation, flow-shop, flow-time, job-shop, scheduling, order, job, re-scheduling, make-span, release-date	Open Shop Scheduling Problem, OSSP, single machine, JSSP	noOverlap, disjunctive	Java	Cplex	semiconductor, automotive, robot	manufacturing industry	generated instance, github, benchmark, real-life		964	1389
ZarandiASC20 [551]	93	scheduling, order, machine, tardiness, flow-shop, job, inventory, cmax, re-scheduling, open-shop, task, batch process, distributed, lateness, flow-time, make-span, release-date, resource, activity, multi-agent, precedence, completion-time, sequence dependent setup, earliness, job-shop, transportation, due-date, setup-time, preempt	JSSP, single machine, PMSp, parallel machine, RCPSP, OSSP, FJS, Open Shop Scheduling Problem	disjunctive, cycle	Prolog	OPL, OZ	satellite, robot, surgery, nurse, aircraft, drone, medical, semiconductor, operating room, railway, crew-scheduling, container terminal	textile industry	real-world, benchmark, real-life	max-flow, time-tabling	993	1418
ZarandiKS16 [550]	17	make-span, job, scheduling, completion-time, resource, order, task, machine, preempt, earliness, distributed, due-date, tardiness, flow-shop, job-shop, transportation	single machine			Ilog Solver	robot		real-world	time-tabling	1034	1459
ZeballosH05 [552]	10	transportation, scheduling, buffer-capacity, completion-time, make-span, order, job, activity, due-date, resource, task, machine, tardiness, precedence				Ilog Scheduler, OPL, Ilog Solver	robot				1109	1534

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

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
ZeballosQH10 [553]	20	cmax, make-span, resource, activity, precedence, completion-time, earliness, job-shop, transportation, due-date, preempt, scheduling, order, machine, tardiness, job, task				ECLiPSe, Ilog Solver, OZ, Cplex, Ilog Scheduler, OPL	robot		benchmark, real-world		1083	1508
ZhangW18 [557]	18	job, completion-time, flow-shop, precedence, lateness, job-shop, re-scheduling, transportation, multi-agent, earliness, order, preempt, flow-time, make-span, distributed, resource, tardiness, scheduling, machine, setup-time	FJS	noOverlap, cumulative		Cplex, Z3, OPL	robot		benchmark		1021	1446
ZhangYW21 [556]	10	cmax, task, machine, job, activity, re-scheduling, release-date, setup-time, preempt, distributed, job-shop, batch process, resource, scheduling, multi-agent, make-span, precedence, order	RCPSP	endBeforeStart, disjunctive		Cplex	robot		benchmark		976	1401
Zhou97 [560]	29	release-date, job-shop, due-date, task, order, preempt, scheduling, precedence, completion-time, job, machine		cumulative, disjunctive	Prolog	CHIP, Ilog Scheduler, Z3			benchmark	edge-finding, edge-finder	1144	1569
ZouZ20 [565]	10	resource, activity, task, order, scheduling, precedence, completion-time, distributed		cumulative, endBeforeStart, noOverlap, span constraint		Cplex, OPL	pipeline		benchmark		994	1419
abs-0907-0939 [413]	12	resource, order, activity, due-date, preempt, scheduling, make-span, release-date, task		cumulative	Java	Choco Solver, CHIP			real-world	sweep, energetic reasoning, edge-finding	1092	1517
abs-1009-0347 [446]	37	scheduling, make-span, machine, task, precedence, cmax, resource, order, activity, preempt, lazy clause generation	RCPSP, psplib, SCC	cumulative, disjunctive, cycle	C++	Ilog Solver, Ilog Scheduler, CHIP, OZ			benchmark, instance generator		1084	1509
abs-1901-07914 [68]	8	multi-agent, scheduling, order, resource, make-span, distributed, machine, task			Python	OZ, MiniZinc, OR-Tools	robot		benchmark, real-world, github		1002	1427
abs-1902-01193 [10]	9	order, resource, activity, BOM, task, scheduling			C++, Prolog, Python	Ilog Solver, CHIP, OPL	medical, nurse			time-tabling	1003	1428
abs-1902-09244 [230]	62	order, tardiness, completion-time, resource, setup-time, activity, inventory, task, machine, due-date, precedence, transportation, earliness, flow-shop, job-shop, scheduling, job, make-span, release-date	FJS, RCPSP	cumulative, endBeforeStart, cycle		Cplex, OZ, OPL	aircraft	steel industry, food-processing industry	benchmark, industry partner, real-world		1004	1429

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-1911-04766 [195]	16	release-date, scheduling, order, completion-time, job, re-scheduling, resource, make-span, activity, due-date, precedence, task	RCPSP	noOverlap, disjunctive, cumulative, alternative constraint, endBeforeStart	Java	OZ, MiniZinc, CPO, Chuffed, Gecode, Cplex	automotive		real-world, generated instance, industrial partner, github, benchmark, instance generator, real-life	time-tabling	1005	1430
abs-2102-08778 [134]	10	open-shop, machine, task, flow-shop, job-shop, scheduling, order, job, resource, make-span	JSSP		Java	OR-Tools, Cplex, OPL, MiniZinc, CPO			generated instance, benchmark, real-life, real-world		977	1402
abs-2211-14492 [472]	17	resource, setup-time, distributed, activity, due-date, precedence, task, flow-shop, machine, transportation, job-shop, scheduling, order, job, make-span, tardiness, completion-time, cmax	single machine	bin-packing, cumulative, disjunctive	Python	Cplex, OR-Tools, OZ	semiconductor		benchmark, random instance, generated instance		965	1390
abs-2305-19888 [243]	42	scheduling, order, job, re-scheduling, make-span, completion-time, cmax, sequence dependent setup, preempt, resource, setup-time, distributed, activity, precedence, task, flow-shop, machine	parallel machine	noOverlap, cumulative, alternative constraint		Gurobi	robot		real-world, generated instance, gitlab, benchmark		947	1372
abs-2306-05747 [482]	9	job-shop, re-scheduling, flow-time, scheduling, order, completion-time, job, resource, make-span, tardiness, preempt, machine, precedence, task, flow-shop	JSSP	noOverlap, disjunctive, cumulative	Java	Choco Solver			real-world, supplementary material, github, industrial instance, benchmark		948	1373
abs-2312-13682 [411]	20	re-scheduling, scheduling, order, resource, make-span, activity, machine, transportation, inventory, task		cumulative, table constraint		OPL	steel mill, operating room, container terminal, nurse		real-world, generated instance		949	1374
abs-2402-00459 [386]	21	machine, due-date, earliness, job-shop, scheduling, order, job, multi-agent, tardiness, completion-time, resource, precedence, task	single machine	disjunctive, bin-packing, cumulative		OPL, OR-Tools		mining industry	instance generator, real-world, generated instance, github, benchmark		932	1357

### 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	Based On	Classification	Constraints	a	b
PrataAN23 PrataAN23 [423]	Applications of constraint programming in production scheduling problems: A descriptive bibliometric analysis	-	benchmark, real-world, real-life	1	-		-	-	survey	-	931	1296
abs-2402-00459 abs-2402-00459 [386]	Genetic-based Constraint Programming for Resource Constrained Job Scheduling	OR-Tools	instance generator, real-world, generated instance, github, benchmark	2	y		n	-	RCJS	cumulatives	932	1355
AbreuNP23 AbreuNP23 [145]	A new two-stage constraint programming approach for open shop scheduling problem with machine blocking	?	real-world, benchmark	10	?		?	?	?	?	933	1163
AbreuPNF23 AbreuPNF23 [3]	A constraint programming-based iterated greedy algorithm for the open shop with sequence-dependent processing times and makespan minimization			0							934	No
AkramNHRS23 AkramNHRS23 [9]	Joint Scheduling and Routing Optimization for Deterministic Hybrid Traffic in Time-Sensitive Networks Using Constraint Programming	OR-Tools	benchmark	0	n		n	-	TSN	-	935	1165
AlfieriGPS23 AlfieriGPS23 [11]	Permutation flowshop problems minimizing core waiting time and core idle time		benchmark	0							936	1166
Caballero23 Caballero23 [114]	Scheduling through logic-based tools	SAT		1	-		-	PhD Thesis	RCPSP	-	937	1200
CzerniachowskaWZ23 CzerniachowskaWZ23 [138]	Constraint Programming for Flexible Flow Shop Scheduling Problem with Repeated Jobs and Repeated Operations		benchmark, Roadef, real-world	0							938	1206
GurPAE23 GurPAE23 [222]	Operating room scheduling with surgical team: a new approach with constraint programming and goal programming	Cplex	real-life	0	n		n	-	-	-	939	1227
IsikYA23 IsikYA23 [265]	Constraint programming models for the hybrid flow shop scheduling problem and its extensions	OPL CP Opt	real-world, benchmark, generated instance, real-life	4	y		y	-	HFSP	alternative endBeforeStart noOverlap	940	1242
LacknerMMWW23 LacknerMMWW23 [313]	Exact methods for the Oven Scheduling Problem	MiniZinc OPL	random instance, industrial partner, benchmark, instance generator, zenodo, real-life	0	DZN JSON		y	[312]	OSP	cumulative alternative noOverlap forbidExtent	941	1256
MontemanniD23 MontemanniD23 [371]	Solving the Parallel Drone Scheduling Traveling Salesman Problem via Constraint Programming	OR-Tools	benchmark, supplementary material	6	ref	y	n	-	PDSTSP	circuit	942	1274
MontemanniD23a MontemanniD23a [370]	Constraint programming models for the parallel drone scheduling vehicle routing problem	OR-Tools	benchmark	0	ref		n	-	PDSTSP	circuit multipleCircuit	943	1275
NaderiRR23 NaderiRR23 [381]	Mixed-Integer Programming vs. Constraint Programming for Shop Scheduling Problems: New Results and Outlook		github, benchmark	8							944	1278
ShaikhK23 ShaikhK23 [454]	Management of electronic ledger: a constraint programming approach for solving curricula scheduling problems	?	benchmark, real-world	2	?		?	?	?	?	945	1309

Table 7: Manually Defined ARTICLE Properties

Key	Title (Local Copy)	CP System	Bench	Links	Data Avail	Sol Avail	Code Avail	Based On	Classification	Constraints	a	b
YuraszekMCCR23 YuraszekMCCR23 [549]	A Constraint Programming Formulation of the Multi-Mode Resource-Constrained Project Scheduling Problem for the Flexible Job Shop Scheduling Problem	CP Opt	github, real-world, bench- mark	0	ref		n	-	FJSSP	alternative endBeforeStart cumulative	946	1334
abs-2305-19888 abs-2305-19888 [243]	Constraint Programming and Constructive Heuristics for Parallel Machine Scheduling with Sequence-Dependent Setups and Common Servers	CP Opt Gurobi	real-world, generated instance, gitlab, benchmark	1	y	y	n	-	$P seq, ser C_{max}$	alternative noOverlap cumulative	947	1352
abs-2306-05747 abs-2306-05747 [482]	An End-to-End Reinforcement Learning Approach for Job-Shop Scheduling Problems Based on Constraint Programming	custom Choco	real-world, supplementary material, github, industrial instance, benchmark	0	ref		n	-	JSSP	noOverlap	948	1353
abs-2312-13682 abs-2312-13682 [411]	A Constraint Programming Model for Scheduling the Unloading of Trains in Ports: Extended	custom	real-world, generated instance	0	n		n	-	SUTP	table disjunctive	949	1354
AbreuN22 AbreuN22 [144]	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	950	1162
BourreauGGLT22 BourreauGGLT22 [107]	A constraint-programming based decomposition method for the Generalised Workforce Scheduling and Routing Problem (GWSRP)		real-world, benchmark	2							951	1198
CampeauG22 CampeauG22 [115]	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	952	1201
ColT22 ColT22 [136]	Industrial-size job shop scheduling with constraint programming		generated instance, supplementary material, github, real-life, benchmark, real-world	4							953	1205
FarsiTM22 FarsiTM22 [174]	Integrated surgery scheduling by constraint programming and meta-heuristics		supplementary material	10							954	1217
Fatemi-AnarakiMFN22 Fatemi-AnarakiMFN22 [175]	Scheduling of Multi-Robot Job Shop Systems in Dynamic Environments: Mixed-Integer Linear Programming and Constraint Programming Approaches			0							955	No
FetgoD22 FetgoD22 [176]	Horizontally Elastic Edge-Finder Algorithm for Cumulative Resource Constraint Revisited		benchmark, real-world	7							956	1218
HeinzNVH22 HeinzNVH22 [242]	Constraint Programming and constructive heuristics for parallel machine scheduling with sequence-dependent setups and common servers		real-world, generated instance, benchmark, gitlab	3							957	1233
MullerMKP22 MullerMKP22 [375]	An algorithm selection approach for the flexible job shop scheduling problem: Choosing constraint programming solvers through machine learning		benchmark, random instance, real-world, github	3							958	1276
NaderiBZ22 NaderiBZ22 [380]	Integrated Order Acceptance and Resource Decisions Under Uncertainty: Robust and Stochastic Approaches		benchmark, real-life	0							959	1277

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Key	Title (Local Copy)	CP System	Bench	Links	Data Avail	Sol Avail	Code Avail	Based On	Classification	Constraints	a	b
PohlAK22 PohlAK22 [416]	Solving the time-discrete winter runway scheduling problem: A column generation and constraint programming approach		benchmark, real-world	2							960	1293
ShiYXQ22 ShiYXQ22 [456]	Solving the integrated process planning and scheduling problem using an enhanced constraint programming-based approach			0							961	No
SubulanC22 SubulanC22 [471]	Constraint programming-based transformation approach for a mixed fuzzy-stochastic resource investment project scheduling problem		real-life, benchmark, real-world	2							962	1315
YunusogluY22 YunusogluY22 [546]	Constraint programming approach for multi-resource-constrained unrelated parallel machine scheduling problem with sequence-dependent setup times		real-world, benchmark, generated instance, real-life, supplementary material	10							963	1333
YuraszeckMPV22 YuraszeckMPV22 [548]	A Novel Constraint Programming Decomposition Approach for the Total Flow Time Fixed Group Shop Scheduling Problem		generated instance, github, benchmark, real-life	5							964	1335
abs-2211-14492 abs-2211-14492 [472]	Enhancing Constraint Programming via Supervised Learning for Job Shop Scheduling		benchmark, random instance, generated instance	1							965	1351
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							966	1160
AbreuAPNM21 AbreuAPNM21 [143]	A new variable neighbourhood search with a constraint programming search strategy for the open shop scheduling problem with operation repetitions		generated instance, benchmark, real-world	8							967	1161
Bedhief21 Bedhief21 [65]	Comparing Mixed-Integer Programming and Constraint Programming Models for the Hybrid Flow Shop Scheduling Problem with Dedicated Machines		real-life	0							968	1183
FanXG21 FanXG21 [173]	Genetic programming-based hyper-heuristic approach for solving dynamic job shop scheduling problem with extended technical precedence constraints		benchmark	0							969	1216
HamPK21 HamPK21 [225]	Energy-Aware Flexible Job Shop Scheduling Using Mixed Integer Programming and Constraint Programming		benchmark, github	4							970	1230
HubnerGSV21 HubnerGSV21 [262]	Solving the nuclear dismantling project scheduling problem by combining mixed-integer and constraint programming techniques and metaheuristics		benchmark, real-life	4							971	1241
KoehlerBFFHPSSS21 KoehlerBFFH-PSSS21 [288]	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	972	1247
PandeyS21a PandeyS21a [404]	Constraint programming versus heuristic approach to MapReduce scheduling problem in Hadoop YARN for energy minimization		benchmark	1							973	1290

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Key	Title (Local Copy)	CP System	Bench	Links	Data Avail	Sol Avail	Code Avail	Based On	Classification	Constraints	a	b
QinWSLS21 QinWSLS21 [425]	A Genetic Programming-Based Scheduling Approach for Hybrid Flow Shop With a Batch Processor and Waiting Time Constraint			0							974	1298
VlkHT21 VlkHT21 [526]	Constraint programming approaches to joint routing and scheduling in time-sensitive networks		industrial partner, random instance, github, benchmark	0							975	1327
ZhangYW21 ZhangYW21 [556]	A graph-based constraint programming approach for the integrated process planning and scheduling problem		benchmark	0							976	1341
abs-2102-08778 abs-2102-08778 [134]	Large-Scale Benchmarks for the Job Shop Scheduling Problem		generated instance, benchmark, real-life, real-world	0							977	1350
AlizdehS20 AlizdehS20 [12]	Fuzzy project scheduling with critical path including risk and resource constraints using linear programming			0							978	No
AntunesABDEGGOL20 AntunesABDEGGOL20 [15]	Assigning and Scheduling Service Visits in a Mixed Urban/Rural Setting			0							979	No
AstrandJZ20 AstrandJZ20 [30]	Underground mine scheduling of mobile machines using Constraint Programming and Large Neighborhood Search		benchmark, real-world, real-life	0							980	1168
BadicaBI20 BadicaBI20 [31]	Block structured scheduling using constraint logic programming		real-world, benchmark	5							981	1169
BenediktMH20 BenediktMH20 [77]	Power of pre-processing: production scheduling with variable energy pricing and power-saving states	CP Opt Gurobi	github, benchmark, random instance, generated instance	4	JSON		y				982	1189
CauwelaertDS20 CauwelaertDS20 [125]	An Efficient Filtering Algorithm for the Unary Resource Constraint with Transition Times and Optional Activities		benchmark, real-life, bit-bucket, generated instance	2							983	1203
FallahiAC20 FallahiAC20 [172]	Tabu search and constraint programming-based approach for a real scheduling and routing problem		github, real-life	0							984	1215
LunardiBLRV20 LunardiBLRV20 [346]	Mixed Integer linear programming and constraint programming models for the online printing shop scheduling problem		benchmark, random instance, generated instance, github	1							985	1267
MejiaY20 MejiaY20 [361]	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							986	1271
MengZRZL20 MengZRZL20 [363]	Mixed-integer linear programming and constraint programming formulations for solving distributed flexible job shop scheduling problem		supplementary material, benchmark	0							987	1272
MokhtarzadehTNF20 MokhtarzadehTNF20 [367]	Scheduling of human-robot collaboration in assembly of printed circuit boards: a constraint programming approach		generated instance, real-world	12							988	1273
Polo-MejiaALB20 Polo-MejiaALB20 [417]	Mixed-integer/linear and constraint programming approaches for activity scheduling in a nuclear research facility		Roadef, github	2							989	1294



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Key	Title (Local Copy)	CP System	Bench	Links	Data Avail	Sol Avail	Code Avail	Based On	Classification	Constraints	a	b
QinDCS20 QinDCS20 [426]	Combining mixed integer programming and constraint programming to solve the integrated scheduling problem of container handling operations of a single vessel		real-life, bench- mark	0							990	1297
SacramentoSP20 SacramentoSP20 [436]	Constraint Programming and Local Search Heuristic: a Matheuristic Approach for Routing and Scheduling Feeder Vessels in Multi-terminal Ports		benchmark, real-life, zen- odo, real-world	4							991	1302
WallaceY20 WallaceY20 [529]	A new constraint programming model and solving for the cyclic hoist scheduling problem	MiniZinc	random in- stance, real-life, real-world, benchmark	2	DZN		y		CHSP		992	1329
ZarandiASC20 ZarandiASC20 [551]	A state of the art review of intelligent scheduling		real-world, benchmark, real-life	0							993	1336
ZouZ20 ZouZ20 [565]	A constraint programming approach for scheduling repetitive projects with atypical activities considering soft logic		benchmark	3							994	1343
EscobetPQPRA19 EscobetPQPRA19 [167]	Optimal batch scheduling of a multiproduct dairy process using a combined optimization/constraint programming approach			1							995	1211
GurEA19 GurEA19 [566]	Surgical Operation Scheduling with Goal Programming and Constraint Programming: A Case Study		real-life	11							996	1226
NishikawaSTT19 NishikawaSTT19 [389]	A Constraint Programming Approach to Scheduling of Malleable Tasks		real-world, benchmark	0							997	1281
Novas19 Novas19 [391]	Production scheduling and lot streaming at flexible job-shops environments using constraint programming		benchmark	0							998	1283
WariZ19 WariZ19 [533]	A Constraint Programming model for food processing industry: a case for an ice cream processing facility			0							999	No
WikarekS19 WikarekS19 [536]	A Constraint-Based Declarative Programming Framework for Scheduling and Resource Allocation Problems			0							1000	1331
YounespourAKE19 YounespourAKE19 [544]	Using mixed integer programming and constraint programming for operating rooms scheduling with modified block strategy		real-life, real- world	6							1001	1332
abs-1901-07914 abs-1901-07914 [68]	A Constraint Programming Approach to Simultaneous Task Allocation and Motion Scheduling for Industrial Dual-Arm Manipulation Tasks		benchmark, real-world, github	0							1002	1346
abs-1902-01193 abs-1902-01193 [10]	Solving Nurse Scheduling Problem Using Constraint Programming Technique			0							1003	1347
abs-1902-09244 abs-1902-09244 [230]	On constraint programming for a new flexible project scheduling problem with resource constraints		benchmark, in- dustry partner, real-world	0							1004	1348
abs-1911-04766 abs-1911-04766 [195]	Investigating Constraint Programming and Hybrid Methods for Real World Industrial Test Laboratory Scheduling		real-world, gen- erated instance, industrial part- ner, github, benchmark, instance genera- tor, real-life	10							1005	1349

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Key	Title (Local Copy)	CP System	Bench	Links	Data Avail	Sol Avail	Code Avail	Based On	Classification	Constraints	a	b
BaptisteB18	Redundant cumulative constraints to compute preemptive bounds			1							1006	1172
BaptisteB18 [37]												
BorghesiBLMB18	Scheduling-based power capping in high performance computing systems		benchmark, real-life	3							1007	1197
BorghesiBLMB18 [104]												
CauwelaertLS18	How efficient is a global constraint in practice? - A fair experimental framework		bitbucket, benchmark	1							1008	1204
CauwelaertLS18 [124]												
FahimiOQ18	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	1009	1213
FahimiOQ18 [170]												
GedikKEK18	A constraint programming approach for solving unrelated parallel machine scheduling problem		benchmark	9							1010	1221
GedikKEK18 [193]												
GokgurHO18	Parallel machine scheduling with tool loading: a constraint programming approach		real-life, real-world	9							1011	1223
GokgurHO18 [207]												
GoldwaserS18	Optimal Torpedo Scheduling		instance generator, github, benchmark, generated instance	0							1012	1224
GoldwaserS18 [209]												
Ham18 Ham18 [224]	Integrated scheduling of m-truck, m-drone, and m-depot constrained by time-window, drop-pickup, and m-visit using constraint programming			7							1013	1229
HookerH18	Constraint programming and operations research		real-world, real-life	1							1014	1239
HookerH18 [259]												
KreterSSZ18	Mixed-integer linear programming and constraint programming formulations for solving resource availability cost problems			0							1015	No
KreterSSZ18 [303]												
LaborieRSV18	IBM ILOG CP optimizer for scheduling - 20+ years of scheduling with constraints at IBM/ILOG	OP Opt	real-world, CSPLib, benchmark	3	-		-	-	-	-	1016	1255
LaborieRSV18 [311]												
PourDERB18	A hybrid Constraint Programming/Mixed Integer Programming framework for the preventive signaling maintenance crew scheduling problem		real-life, benchmark, real-world, generated instance	1							1017	1295
PourDERB18 [419]												
ShinBBHO18	Discrete-Event Simulation and Integer Linear Programming for Constraint-Aware Resource Scheduling		github, real-world	4							1018	1310
ShinBBHO18 [457]												
TangLWSK18	Scheduling Optimization of Linear Schedule with Constraint Programming			0							1019	1317
TangLWSK18 [479]												
TranPZLDB18	Multi-stage resource-aware scheduling for data centers with heterogeneous servers		benchmark, generated instance	2							1020	1322
TranPZLDB18 [501]												
ZhangW18	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							1021	1340
ZhangW18 [557]												
KreterSS17	Using constraint programming for solving RCPSP/max-cal	MiniZinc Chuffed Cplex Cplex	benchmark	5	dead			[301]	RCPSP	cumulative cumulativeCalend.	1022	1252
KreterSS17 [302]												
NattafAL17	Cumulative scheduling with variable task profiles and concave piecewise linear processing rate functions		real-world	2	n		n	-	CECSP	-	1023	1280
NattafAL17 [383]												
TranVNB17	Robots in Retirement Homes: Applying Off-the-Shelf Planning and Scheduling to a Team of Assistive Robots		real-world	0							1024	1323
TranVNB17 [503]												

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BlomPS16 BlomPS16 [90]	A Decomposition-Based Algorithm for the Scheduling of Open-Pit Networks Over Multiple Time Periods			0							1025	No
Bonfietti16 Bonfietti16 [95]	A constraint programming scheduling solver for the MPOpt programming environment		benchmark	10							1026	1195
BridiBLMB16 BridiBLMB16 [109]	A Constraint Programming Scheduler for Heterogeneous High-Performance Computing Machines		real-world, real-life	0							1027	1199
DoulabiRP16 DoulabiRP16 [161]	A Constraint-Programming-Based Branch-and-Price-and-Cut Approach for Operating Room Planning and Scheduling		real-world, generated instance	3							1028	1210
HamC16 HamC16 [226]	Flexible job shop scheduling problem with parallel batch processing machines: MIP and CP approaches			0							1029	No
HebrardHJMPV16 HebrardHJMPV16 [233]	Approximation of the parallel machine scheduling problem with additional unit resources		industrial partner	0							1030	1231
KuB16 KuB16 [304]	Mixed Integer Programming models for job shop scheduling: A computational analysis			0							1031	No
NovaraNH16 NovaraNH16 [390]	A novel constraint programming model for large-scale scheduling problems in multiproduct multistage batch plants: Limited resources and campaign-based operation		CSPLib, benchmark	5							1032	1282
TranAB16 TranAB16 [498]	Decomposition Methods for the Parallel Machine Scheduling Problem with Setups			0							1033	No
ZarandiKS16 ZarandiKS16 [550]	A constraint programming model for the scheduling of JIT cross-docking systems with preemption		real-world	0							1034	1337
BajestaniB15 BajestaniB15 [35]	A two-stage coupled algorithm for an integrated maintenance planning and flowshop scheduling problem with deteriorating machines		real-world	0							1035	1171
EvenSH15a EvenSH15a [169]	A Constraint Programming Approach for Non-Preemptive Evacuation Scheduling		real-world, real-life	2							1036	1212
GoelSHFS15 GoelSHFS15 [206]	Constraint programming for LNG ship scheduling and inventory management			0							1037	1222
GrimesH15 GrimesH15 [214]	Solving Variants of the Job Shop Scheduling Problem Through Conflict-Directed Search			0							1038	No
Kameugne15 Kameugne15 [274]	Propagation techniques of resource constraint for cumulative scheduling	-		2	-		-	PhDThesis	RCPSP		1039	1243
LetortCB15 LetortCB15 [321]	Synchronized sweep algorithms for scalable scheduling constraints	Choco SICStus	generated instance, Roadev, benchmark, random instance	4	dead		-	[320]	-	cumulative dimCumulativePr	1040	1258
NattafAL15 NattafAL15 [382]	A hybrid exact method for a scheduling problem with a continuous resource and energy constraints	Cplex	generated instance	1	n		n		CSCSP		1041	1279
Siala15 Siala15 [458]	Search, propagation, and learning in sequencing and scheduling problems	-	benchmark	2	-		-	PhD Thesis			1042	1311
SimoninAHL15 SimoninAHL15 [462]	Scheduling scientific experiments for comet exploration	MOST Ilog Scheduler		0	n		n	[461]		cumulative dataTransfer	1043	1312
WangMD15 WangMD15 [532]	Scheduling operating theatres: Mixed integer programming vs. constraint programming		real-life, real-world	2							1044	1330
BlomBPS14 BlomBPS14 [89]	A Decomposition-Based Heuristic for Collaborative Scheduling in a Network of Open-Pit Mines			0							1045	No

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BonfiettiLBM14 BonfiettiLBM14 [98]	CROSS cyclic resource-constrained scheduling solver		real-world, generated instance, industrial instance, benchmark	0							1046	1196
GrimesIOS14 GrimesIOS14 [216]	Analyzing the impact of electricity price forecasting on energy cost-aware scheduling		real-world, real-life	9							1047	1225
KameugneFSN14 KameugneFSN14 [278]	A quadratic edge-finding filtering algorithm for cumulative resource constraints	Gecode	random instance, benchmark	2	y			[277]	CuSP	cumulative	1048	1244
NovasH14 NovasH14 [394]	Integrated scheduling of resource-constrained flexible manufacturing systems using constraint programming		benchmark	0							1049	1286
TerekhovTDB14 TerekhovTDB14 [486]	Integrating Queueing Theory and Scheduling for Dynamic Scheduling Problems		real-world	0							1050	1318
ThiruvadyWGS14 ThiruvadyWGS14 [490]	A Lagrangian relaxation and ACO hybrid for resource constrained project scheduling with discounted cash flows		benchmark	0							1051	1319
BajestaniB13 BajestaniB13 [34]	Scheduling a Dynamic Aircraft Repair Shop with Limited Repair Resources			0							1052	1170
BegB13 BegB13 [66]	A constraint programming approach for integrated spatial and temporal scheduling for clustered architectures		benchmark	0							1053	1184
HeinzSB13 HeinzSB13 [241]	Using dual presolving reductions to reformulate cumulative constraints	Cplex SCIP	benchmark	1	ref		-	-	RCPSP RCPSP/max	cumulative	1054	1234
OzturkTHO13 OzturkTHO13 [403]	Balancing and scheduling of flexible mixed model assembly lines	Ilog Solver Ilog Scheduler	real-world, real-life	2	y		-	-	SBSFMMAL	alldifferent disjunctive	1055	1289
SchuttFSW13 SchuttFSW13 [448]	Solving RCPSP/max by lazy clause generation	Cplex	benchmark, supplementary material	6							1056	1308
HeinzSSW12 HeinzSSW12 [239]	Solving steel mill slab design problems		real-world, CSPlib	2	Cplex		dead	-	SMSDP	-	1057	1235
LimtanyakulS12 LimtanyakulS12 [328]	Improvements of constraint programming and hybrid methods for scheduling of tests on vehicle prototypes	Cplex Ilog Scheduler	random instance, real-life, generated instance, industrial partner, benchmark	1	dead		-	-			1058	1260
LombardiM12 LombardiM12 [340]	Optimal methods for resource allocation and scheduling: a cross-disciplinary survey	-	real-world, benchmark	0	-		-	-	survey	-	1059	1262
LombardiM12a LombardiM12a [339]	A min-flow algorithm for Minimal Critical Set detection in Resource Constrained Project Scheduling		benchmark	1							1060	1263
NovasH12 NovasH12 [393]	A comprehensive constraint programming approach for the rolling horizon-based scheduling of automated wet-etch stations			0							1061	1285
TerekhovDOB12 TerekhovDOB12 [485]	Solving two-machine assembly scheduling problems with inventory constraints			0							1062	No
BandaSC11 BandaSC11 [146]	Solving Talent Scheduling with Dynamic Programming			0							1063	No
BartakS11 BartakS11 [48]	Constraint satisfaction for planning and scheduling problems	-	random instance, real-world, real-life	2	-		-		survey		1064	1175

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BeckFW11	Combining Constraint Programming and Local Search for Job-Shop Scheduling		real-world, benchmark	0							1065	1180
BeckFW11 [57]			benchmark	1							1066	1186
BeldiceanuCDP11	New filtering for the <i>cumulative</i> constraint in the context of non-overlapping rectangles											
BeldiceanuCDP11 [71]												
BeniniLMR11	Optimal resource allocation and scheduling for the CELL BE platform		benchmark, real-world, instance generator	0							1067	1190
BeniniLMR11 [80]												
HachemiGR11	A hybrid constraint programming approach to the log-truck scheduling problem			1							1068	1228
HachemiGR11 [223]												
HeckmanB11	Understanding the behavior of Solution-Guided Search for job-shop scheduling		benchmark, real-world	0							1069	1232
HeckmanB11 [236]												
KelbelH11	Solving production scheduling with earliness/tardiness penalties by constraint programming		benchmark, random instance, generated instance	3							1070	1245
KelbelH11 [281]												
KovacsB11	A global constraint for total weighted completion time for unary resources	Ilog Scheduler	benchmark	2	n		n	-		Completion	1071	1250
KovacsB11 [295]												
KovacsK11	Constraint programming approach to a bilevel scheduling problem	Ilog Solver		2	n		n	-	Bilevel Opt		1072	1251
KovacsK11 [297]												
SchausHMCMD11	Solving Steel Mill Slab Problems with constraint-based techniques: CP, LNS, and CBLs	Comet	benchmark, CSPLib, generated instance	3	dead				SMSDP		1073	1305
SchausHMCMD11 [440]												
SchuttFSW11	Explaining the cumulative propagator	MiniZinc	benchmark, real-world	7	PSPLib		-	-	RCPSP	cumulative	1074	1307
SchuttFSW11 [447]												
TopalogluO11	A constraint programming-based solution approach for medical resident scheduling problems		real-life	2							1075	1321
TopalogluO11 [494]												
TrojetHL11	Project scheduling under resource constraints: Application of the cumulative global constraint in a decision support framework		real-world	2							1076	1324
TrojetHL11 [506]												
BartakCS10	Discovering implied constraints in precedence graphs with alternatives		benchmark, real-life, real-world	3							1077	1174
BartakCS10 [47]												
BartakSR10	New trends in constraint satisfaction, planning, and scheduling: a survey		real-life, real-world	0							1078	1176
BartakSR10 [49]												
HartmannB10	A survey of variants and extensions of the resource-constrained project scheduling problem			0							1079	No
HartmannB10 [229]												
LombardiM10a	Allocation and scheduling of Conditional Task Graphs		real-world, benchmark, real-life	3							1080	1261
LombardiM10a [337]												
LopesCSM10	A hybrid model for a multiproduct pipeline planning and scheduling problem	Ilog Solver	benchmark, real-world	2	-		-	[374, 373]			1081	1264
LopesCSM10 [342]												
NovashH10	Reactive scheduling framework based on domain knowledge and constraint programming			0							1082	1284
NovashH10 [392]												
ZeballosQH10	A constraint programming model for the scheduling of flexible manufacturing systems with machine and tool limitations		benchmark, real-world	4							1083	1339
ZeballosQH10 [553]												
abs-1009-0347	Solving the Resource Constrained Project Scheduling Problem with Generalized Precedences by Lazy Clause Generation		benchmark, instance generator	0							1084	1345
abs-1009-0347 [446]												
BidotVLB09	A theoretic and practical framework for scheduling in a stochastic environment		real-world, real-life	0							1085	1192
BidotVLB09 [84]												
BocewiczBB09	Logic-algebraic method based and constraints programming driven approach to AGVs scheduling			0							1086	1194
BocewiczBB09 [91]												

Table 7: Manually Defined ARTICLE Properties

Key	Title (Local Copy)	CP System	Bench	Links	Data Avail	Sol Avail	Code Avail	Based On	Classification	Constraints	a	b
GarridoAO09 GarridoAO09 [187]	A constraint programming formulation for planning: from plan scheduling to plan generation		benchmark	8							1087	1219
Jans09 Jans09 [267]	Solving Lot-Sizing Problems on Parallel Identical Machines Using Symmetry-Breaking Constraints			0							1088	No
OhrimenkoSC09 OhrimenkoSC09 [398]	Propagation via lazy clause generation		benchmark	8							1089	1288
RuggieroBBMA09 RuggieroBBMA09 [435]	Reducing the Abstraction and Optimality Gaps in the Allocation and Scheduling for Variable Voltage/Frequency MPSoC Platforms		instance generator, real-life	0							1090	1301
WuBB09 WuBB09 [542]	Scheduling with uncertain durations: Modeling beta-robust scheduling with constraints			0							1091	No
abs-0907-0939 abs-0907-0939 [413]	The Soft Cumulative Constraint		real-world	0							1092	1344
GarridoOS08 GarridoOS08 [188]	Planning and scheduling in an e-learning environment. A constraint-programming-based approach		real-world	0							1093	1220
KovacsB08 KovacsB08 [294]	A global constraint for total weighted completion time for cumulative resources		benchmark	0							1094	1249
LiessM08 LiessM08 [323]	A constraint programming approach for the resource-constrained project scheduling problem		benchmark	0							1095	1259
MalikMB08 MalikMB08 [356]	Optimal Basic Block Instruction Scheduling for Multiple-Issue Processors Using Constraint Programming		benchmark	0							1096	1268
MercierH08 MercierH08 [364]	Edge Finding for Cumulative Scheduling			0							1097	No
Beck07 Beck07 [55]	Solution-Guided Multi-Point Constructive Search for Job Shop Scheduling		benchmark	0							1098	1177
BeckW07 BeckW07 [64]	Proactive Algorithms for Job Shop Scheduling with Probabilistic Durations		benchmark	0							1099	1182
Hooker07 Hooker07 [255]	Planning and Scheduling by Logic-Based Benders Decomposition			0							1100	No
Rodriguez07 Rodriguez07 [433]	A constraint programming model for real-time train scheduling at junctions		real-life	2							1101	1299
Simonis07 Simonis07 [466]	Models for Global Constraint Applications	CHIP		0	n		n			cumulative diffn cycle inverse cumulative	1102	1313
Hooker06 Hooker06 [254]	An Integrated Method for Planning and Scheduling to Minimize Tardiness	OPL Cplex Ilog Scheduler	random instance	2	n		n	[253]	CuSP		1103	1238
KhayatLR06 KhayatLR06 [283]	Integrated production and material handling scheduling using mathematical programming and constraint programming		real-life, bench- mark	1							1104	1246
SadykovW06 SadykovW06 [438]	Integer Programming and Constraint Programming in Solving a Multimachine Assignment Scheduling Problem with Deadlines and Release Dates		generated in- stance	1							1105	1303
SureshMOK06 SureshMOK06 [474]	Divisible load scheduling in distributed system with buffer constraints: genetic algorithm and linear programming approach			0							1106	1316
Hooker05 Hooker05 [252]	A Hybrid Method for the Planning and Scheduling	OPL Cplex Ilog Scheduler	random instance	0	n		n	[251]	CuSP	cumulative	1107	1237

Table 7: Manually Defined ARTICLE Properties

Key	Title (Local Copy)	CP System	Bench	Links	Data Avail	Sol Avail	Code Avail	Based On	Classification	Constraints	a	b
VilimBC05 VilimBC05 [523]	Extension of $O(n \log n)$ Filtering Algorithms for the Unary Resource Constraint to Optional Activities		benchmark, real-life	0	n		n	[522]	JSSP	disjunctive	1108	1326
ZeballosH05 ZeballosH05 [552]	A Constraint Programming Approach to FMS Scheduling. Consideration of Storage and Transportation Resources			0							1109	1338
PoderBS04 PoderBS04 [415]	Computing a lower approximation of the compulsory part of a task with varying duration and varying resource consumption			0							1110	1292
BeckR03 BeckR03 [61]	A Hybrid Approach to Scheduling with Earliness and Tardiness Costs		benchmark	0							1111	1181
HookerO03 HookerO03 [258]	Logic-based Benders decomposition		generated in-stance	0							1112	1240
KuchcinskiW03 KuchcinskiW03 [305]	Global approach to assignment and scheduling of complex behaviors based on HCDG and constraint programming		benchmark	0							1113	1253
Laborie03 Laborie03 [308]	Algorithms for propagating resource constraints in AI planning and scheduling: Existing approaches and new results		benchmark	0							1114	1254
Tsang03 Tsang03 [507]	Constraint Based Scheduling: Applying Constraint Programming to Scheduling Problems		real-life	0							1115	1325
HarjunkskiG02 HarjunkskiG02 [228]	Decomposition techniques for multistage scheduling problems using mixed-integer and constraint programming methods			0							1116	No
LorigeonBB02 LorigeonBB02 [344]	A dynamic programming algorithm for scheduling jobs in a two-machine open shop with an availability constraint			0							1117	1266
RodriguezDG02 RodriguezDG02 [432]	Railway infrastructure saturation using constraint programming approach			0							1118	1300
Timpe02 Timpe02 [492]	Solving planning and scheduling problems with combined integer and constraint programming			0							1119	1320
JainG01 JainG01 [266]	Algorithms for Hybrid MILP/CP Models for a Class of Optimization Problems			0							1120	No
MartinPY01 MartinPY01 [358]	Cane Railway Scheduling via Constraint Logic Programming: Labelling Order and Constraints in a Real-Life Application		real-life	0							1121	1269
Mason01 Mason01 [359]	Elastic Constraint Branching, the Wedelin/Carmen Lagrangian Heuristic and Integer Programming for Personnel Scheduling			0							1122	1270
ArtiguesR00 ArtiguesR00 [25]	A polynomial activity insertion algorithm in a multi-resource schedule with cumulative constraints and multiple modes			0							1123	1167
BaptisteP00 BaptisteP00 [40]	Constraint Propagation and Decomposition Techniques for Highly Disjunctive and Highly Cumulative Project Scheduling Problems	CLAIRE	benchmark	0	n		n		RCCSP	cumulative	1124	1173
BeckF00 BeckF00 [59]	Dynamic problem structure analysis as a basis for constraint-directed scheduling heuristics		real-world, benchmark	0							1125	1178
HeipckeCCS00 HeipckeCCS00 [244]	Scheduling under Labour Resource Constraints	COME SchedEns	benchmark, in-stance generator	0	dead		n	-			1126	1236
KorbaaYG00 KorbaaYG00 [291]	Solving Transient Scheduling Problems with Constraint Programming			0							1127	1248
LopezAKYG00 LopezAKYG00 [343]	Discussion on: 'Solving Transient Scheduling Problems with Constraint Programming' by O. Korbaa, P. Yim, and J.-C. Gentina			0							1128	1265

Table 7: Manually Defined ARTICLE Properties

Key	Title (Local Copy)	CP System	Bench	Links	Data Avail	Sol Avail	Code Avail	Based On	Classification	Constraints	a	b
SakkoutW00 SakkoutW00 [439]	Probe Backtrack Search for Minimal Perturbation in Dynamic Scheduling	Cplex	benchmark, real-world	0	n		n	-	KRFP		1129	1304
SchildW00 SchildW00 [441]	Scheduling of Time-Triggered Real-Time Systems	ECLiPSe OZ		0	n		n	-		disjunctive	1130	1306
SimonisCK00 SimonisCK00 [467]	Constraint Handling in an Integrated Transportation Problem			0							1131	No
SourdN00 SourdN00 [469]	Multiple-Machine Lower Bounds for Shop-Scheduling Problems		real-life, bench- mark	1							1132	1314
TorresL00 TorresL00 [495]	On Not-First/Not-Last conditions in disjunctive scheduling			0							1133	No
BensanaLV99 BensanaLV99 [81]	Earth Observation Satellite Management	Ilog Solver	benchmark	0	?		-	-			1134	1191
BruckerDMNP99 BruckerDMNP99 [111]	Resource-constrained project scheduling: Notation, classification, models, and methods			0							1135	No
BeckF98 BeckF98 [58]	A Generic Framework for Constraint-Directed Search and Scheduling		real-world, benchmark	0							1136	1179
BelhadjiI98 BelhadjiI98 [74]	Temporal Constraint Satisfaction Techniques in Job Shop Scheduling Problem Solving	-	real-life	0	n		n	-	TCSP JSSP		1137	1187
NuijtenP98 NuijtenP98 [396]	Constraint-Based Job Shop Scheduling with \sc Ilog Scheduler		real-life	0							1138	1287
PapaB98 PapaB98 [407]	Resource Constraints for Preemptive Job-shop Scheduling	Ilog Solver Claire	benchmark	0	dead		-	-	PJSSP	disjunctive flow	1139	1291
Darby-DowmanLMZ97 Darby-DowmanLMZ97 [140]	Constraint Logic Programming and Integer Programming Approaches and Their Collaboration in Solving an Assignment Scheduling Problem	Cplex ECLiPSe	real-life, real-world, bench- mark	0	n		n	-	MGAP		1140	1207
FalaschiGMP97 FalaschiGMP97 [171]	Constraint Logic Programming with Dynamic Scheduling: A Semantics Based on Closure Operators			0							1141	1214
KolischS97 KolischS97 [289]	PSPLIB - A project scheduling problem library			0							1142	No
LammaMM97 LammaMM97 [315]	A distributed constraint-based scheduler		real-life	0							1143	1257
Zhou97 Zhou97 [560]	A Permutation-Based Approach for Solving the Job-Shop Problem	-	benchmark	0	n		n	[559]	JSSP	sort alldifferent permutation	1144	1342
Wallace96 Wallace96 [528]	Practical Applications of Constraint Programming	-		0	-		-	-	Survey	-	1145	1328
BeldiceanuC94 BeldiceanuC94 [69]	Introducing Global Constraints in CHIP		real-world, real-life, benchmark	0							1146	1185
CarlierP94 CarlierP94 [121]	Adjustment of heads and tails for the job-shop problem			0							1147	No
Pape94 Pape94 [405]	Implementation of resource constraints in ILOG SCHEDULE: a library for the development of constraint-based scheduling systems			0							1148	No
AggounB93 AggounB93 [7]	Extending CHIP in order to solve complex scheduling and placement problems		real-world	0							1149	1164
Taillard93 Taillard93 [477]	Benchmarks for basic scheduling problems			0							1150	No
Tay92 Tay92 [483]	COPS: A Constraint Programming Approach to Resource-Limited Project Scheduling			0							1151	No
ApplegateC91 ApplegateC91 [18]	A Computational Study of the Job-Shop Scheduling Problem			0							1152	No
DechterMP91 DechterMP91 [147]	Temporal constraint networks			0							1153	1208



Table 7: Manually Defined ARTICLE Properties

Key	Title (Local Copy)	CP System	Bench	Links	Data Avail	Sol Avail	Code Avail	Based On	Classification	Constraints	a	b
CarlierP90	A practical use of Jackson's preemptive schedule		benchmark	0							1154	1202
CarlierP90 [120]	for solving the job shop problem											
DincbasSH90	Solving Large Combinatorial Problems in Logic		real-life	0							1155	1209
DincbasSH90 [158]	Programming											
CarlierP89	An Algorithm for Solving the Job-Shop Problem			0							1156	No
CarlierP89 [119]												
AdamsBZ88	The Shifting Bottleneck Procedure for Job Shop			0							1157	No
AdamsBZ88 [6]	Scheduling											
BlazewiczLK83	Scheduling subject to resource constraints:			0							1158	1193
BlazewiczLK83 [88]	classification and complexity											
Benders62	Partitioning procedures for solving			0							1159	1188
Benders62 [76]	mixed-variables programming problems											

## 4 Authors

Table 8: Co-Authors of Articles/Papers

Author	Nr Works	Nr Cites	Entries
J. Christopher Beck	46	623	LuoB22 [349], ZhangBB22 [555], TangB20 [478], TranPZLDB18 [501], TranVNB17 [503], TranVNB17a [504], CohenHB17 [133], BoothNB16 [103], KuB16 [304], TranAB16 [498], TranWDRFOVB16 [505], LuoVLBM16 [348], TranDRFWOV16 [500], BajestaniB15 [35], KoschB14 [292], TerekhovTDB14 [486], LouieVNB14 [345], HeinzSB13 [241], HeinzKB13 [238], BajestaniB13 [34], TranTDB13 [502], HeinzB12 [237], Terekhov-DOB12 [485], TranB12 [499], KovacsB11 [295], BeckFW11 [57], HeckmanB11 [236], BajestaniB11 [33], WuBB09 [542], BidotVLB09 [84], WatsonB08 [534], KovacsB08 [294], BeckW07 [64], Beck07 [55], KovacsB07 [293], Beck06 [54], CarchraeBF05 [118], WuBB05 [541], BeckW05 [63], BeckW04 [62], BeckR03 [61], BeckPS03 [60], BeckF00 [59], Beck99 [53], BeckF98 [58], BeckDF97 [56]
Michela Milano	24	172	BorghesiBLMB18 [104], BonfiettiZLM16 [102], BridiBLMB16 [109], BridiLBBM16 [110], LombardiBM15 [334], BartoliniBBLM14 [51], BonfiettiLM14 [100], BonfiettiLBM14 [98], BonfiettiLM13 [99], LombardiM13 [341], LombardiM12 [340], BonfiettiLBM12 [97], BonfiettiLBM12 [101], BonfiettiLBM11 [96], LombardiBMB11 [335], BeniniLMR11 [80], LombardiM10 [338], LombardiM10a [337], LombardiM09 [336], RuggieroBBMA09 [435], BeniniBGM06 [79], LammaMM97 [315], BrusoniCLMMT96 [112]
Andreas Schutt	24	314	YangSS19 [543], KreterSSZ18 [303], GoldwaserS18 [209], MusliuSS18 [379], KreterSS17 [302], YoungFS17 [545], GoldwaserS17 [208], SchuttS16 [450], SzerediS16 [476], KreterSS15 [301], EvenSH15 [168], EvenSH15a [169], ThiruvadyWGS14 [490], SchuttFS13 [444], SchuttFS13a [443], GuSS13 [220], SchuttFSW13 [448], ChuGNSW13 [128], SchuttCSW12 [442], SchuttFSW11 [447], SchuttW10 [451], abs-1009-0347 [446], SchuttFSW09 [445], SchuttWS05 [452]
Peter J. Stuckey	23	789	YangSS19 [543], DemirovicS18 [152], KreterSSZ18 [303], MusliuSS18 [379], KreterSS17 [302], SchuttS16 [450], BlomPS16 [90], KreterSS15 [301], BurtLPS15 [113], BlomBPS14 [89], LipovetzkyBPS14 [329], SchuttFS13 [444], SchuttFS13a [443], GuSS13 [220], SchuttFSW13 [448], SchuttCSW12 [442], GuSW12 [221], SchuttFSW11 [447], BandaSC11 [146], abs-1009-0347 [446], SchuttFSW09 [445], OhrimenkoSC09 [398], NethercoteSBBDT07 [385]
Michele Lombardi	22	135	BorghesiBLMB18 [104], CauwelaertLS18 [124], BonfiettiZLM16 [102], BridiBLMB16 [109], BridiLBBM16 [110], LombardiBM15 [334], BartoliniBLM14 [51], BonfiettiLBM14 [100], BonfiettiLBM14 [98], BonfiettiLM13 [99], LombardiM13 [341], LombardiM12 [340], BonfiettiLBM12 [97], LombardiM12a [339], BonfiettiLBM11 [96], LombardiBMB11 [335], BeniniLMR11 [80], LombardiM10 [338], LombardiM10a [337], LombardiM09 [336], HoeveGSL07 [512]
Emmanuel Hebrard	17	71	JuvinHHL23 [271], HebrardALLCMR22 [232], AntuoriHHEN21 [17], ArtiguesHQT21 [24], GodetLHS20 [205], AntuoriHHEN20 [16], Hebrard-HJMPV16 [233], SimoninAHL15 [462], SialaAH15 [460], GrimesH15 [214], BessiereHMQW14 [83], SimoninAHL12 [461], BillautHL12 [85], GrimesH11 [213], GrimesH10 [212], GrimesHM09 [215], HebrardTW05 [234]
John N. Hooker	14	895	Hooker19 [257], HookerH18 [259], Hooker17 [256], HechingH16 [235], CireCH13 [130], CobanH10 [132], Hooker07 [255], Hooker06 [254], Hooker05 [252], Hooker05a [253], Hooker04 [251], HookerO03 [258], HookerY02 [260], Hooker00 [250]
Helmut Simonis	14	151	ArmstrongGOS22 [21], ArmstrongGOS21 [20], AntunesABDEGGOL20 [15], AntunesABDEGGOL18 [14], HurleyOS16 [263], GrimesIOS14 [216], IfrimOS12 [264], Simonis07 [466], SimonisCK00 [467], Simonis99 [465], SimonisC95 [468], Simonis95 [464], Simonis95a [463], DincbasSH90 [158]
Nicolas Beldiceanu	13	274	Madi-WambaLOBM17 [351], Madi-WambaB16 [350], LetortCB15 [321], LetortCB13 [320], LetortBC12 [319], ClercqPBJ11 [131], BeldiceanuCDP11 [71], BeldiceanuCP08 [72], PoderB08 [414], BeldiceanuP07 [73], PoderBS04 [415], BeldiceanuC02 [70], AggounB93 [7]
Pierre Lopez	13	75	JuvinHHL23 [271], JuvinHL23 [272], HebrardALLCMR22 [232], Polo-MejiaALB20 [417], NattafAL17 [383], SimoninAHL15 [462], NattafAL15 [382], SimoninAHL12 [461], BillautHL12 [85], LahimerLH11 [314], TrojetHL11 [506], LopezAKYG00 [343], TorresL00 [495]
Christian Artigues	12	142	PovedaAA23 [420], PohlAK22 [416], HebrardALLCMR22 [232], ArtiguesHQT21 [24], Polo-MejiaALB20 [417], NattafAL17 [383], SimoninAHL15 [462], NattafAL15 [382], SialaAH15 [460], SimoninAHL12 [461], ArtiguesBF04 [23], ArtiguesR00 [25]
Pierre Schaus	12	79	CauwelaertDS20 [125], CappartTSR18 [117], CauwelaertLS18 [124], CappartS17 [116], CauwelaertDMS16 [123], DejemeppeCS15 [149], GayHLS15 [189], GayHS15 [190], GayHS15a [191], HoundjiSWD14 [261], GaySS14 [192], SchausHMCMD11 [440]
Roman Barták	11	88	SvancaraB22 [475], JelinekB16 [268], BartakV15 [50], Bartak14 [46], BartakS11 [48], BartakCS10 [47], BartakSR10 [49], VilimBC05 [523], VilimBC04 [522], Bartak02 [45], Bartak02a [44]
Philippe Laborie	11	510	LunardiBLRV20 [346], LaborieRSV18 [311], Laborie18a [310], MelgarejoLS15 [8], VilimLS15 [524], Laborie09 [309], BidotVLB09 [84], BaptisteLPN06 [38], GodardLN05 [203], Laborie03 [308], FocacciLN00 [177]
Petr Vilím	11	313	LaborieRSV18 [311], VilimLS15 [524], Vilim11 [521], Vilim09 [519], Vilim09a [520], VilimBC05 [523], Vilim05 [518], VilimBC04 [522], Vilim04 [517], Vilim03 [516], Vilim02 [515]
Luca Benini	10	87	BorghesiBLMB18 [104], BridiBLMB16 [109], BridiLBBM16 [110], BonfiettiLBM14 [98], BonfiettiLBM12 [97], BonfiettiLBM11 [96], LombardiBMB11 [335], BeniniLMR11 [80], RuggieroBBMA09 [435], BeniniBGM06 [79]
Alessio Bonfietti	10	17	BonfiettiZLM16 [102], Bonfietti16 [95], LombardiBM15 [334], BonfiettiLM14 [100], BonfiettiLBM14 [98], BonfiettiLM13 [99], BonfiettiLBM12 [97], BonfiettiM12 [101], BonfiettiLBM11 [96], LombardiBMB11 [335]
Pascal Van Hentenryck	10	164	FontaineMH16 [178], EvenSH15 [168], EvenSH15a [169], SchausHMCMD11 [440], MonetteDH09 [369], DoomsH08 [159], HentenryckM08 [246], MercierH08 [364], HentenryckM04 [245], DincbasSH90 [158]
Philippe Baptiste	9	400	BaptisteB18 [37], Baptiste09 [36], BaptisteLPN06 [38], ArtiouchineB05 [26], BaptistePN01 [41], BaptisteP00 [40], PapaB98 [407], BaptisteP97 [39], PapeB97 [406]

Table 8: Co-Authors of Articles/Papers

Author	Nr Works	Nr Cites	Entries
Nysret Musliu	9	14	LacknerMMWW23 [313], WinterMMW22 [537], LacknerMMWW21 [312], GeibingerKKMMW21 [194], GeibingerMM21 [197], GeibingerMM19 [196], abs-1911-04766 [195], MusliuSS18 [379], KletzanderM17 [287]
Claude-Guy Quimper	9	25	BoudreaultSLQ22 [106], OuelletQ22 [401], Mercier-AubinGQ20 [365], FahimiOQ18 [170], KameugneFGOQ18 [275], OuelletQ18 [400], GingrasQ16 [202], BessiereHMQW14 [83], OuelletQ13 [399]
Tony T. Tran	9	108	TranPZLDB18 [501], TranVNB17 [503], TranVNB17a [504], TranAB16 [498], TranWDRFOVB16 [505], TranDRFWOVB16 [500], TerekhovTDB14 [486], TranTDB13 [502], TranB12 [499]
Mats Carlsson	8	80	WessenCS20 [535], MossigeGSMC17 [372], LetortCB15 [321], LetortCB13 [320], LetortBC12 [319], BeldiceanuCDP11 [71], BeldiceanuCP08 [72], BeldiceanuC02 [70]
Claude Le Pape	8	534	BaptisteLPN06 [38], BaptistePN01 [41], BaptisteP00 [40], PapaB98 [407], NuijtenP98 [396], BaptisteP97 [39], PapeB97 [406], Pape94 [405]
Mark Wallace	8	243	WallaceY20 [529], He0GLW18 [231], ThiruvadyWGS14 [490], SchuttFSW09 [445], SakkoutW00 [439], RodosekW98 [431], Wallace96 [528], Wallace94 [527]
Thibaut Feydy	7	170	YoungFS17 [545], SchuttFS13 [444], SchuttFS13a [443], SchuttFSW13 [448], SchuttFSW11 [447], abs-1009-0347 [446], SchuttFSW09 [445]
Diarmuid Grimes	7	52	AntunesABDEGGOL20 [15], AntunesABDEGGOL18 [14], GrimesH15 [214], GrimesIOS14 [216], GrimesH11 [213], GrimesH10 [212], GrimesHM09 [215]
Zdenek Hanzálek	7	27	Mehdizadeh-Somarin23 [360], abs-2305-19888 [243], HeinzNVH22 [242], VlkHT21 [526], BenediktMH20 [77], BenediktSMVH18 [78], KelbelH11 [281]
András Kovács	7	21	KovacsB11 [295], KovacsK11 [297], KovacsB08 [294], KovacsB07 [293], KovacsV06 [299], KovacsEKV05 [296], KovacsV04 [298]
Barry O’Sullivan	7	14	ArmstrongGOS22 [21], ArmstrongGOS21 [20], AntunesABDEGGOL20 [15], AntunesABDEGGOL18 [14], HurleyOS16 [263], GrimesIOS14 [216], IfrimOS12 [264]
Gabriela P. Henning	7	153	NovaraNH16 [390], NovasH14 [394], NovasH12 [393], NovasH10 [392], ZeballosQH10 [553], ZeballosH05 [552], QuirogaZH05 [428]
Stefan Heinz	6	67	HeinzSB13 [241], HeinzKB13 [238], HeinzSSW12 [239], HeinzB12 [237], HeinzS11 [240], BertholdHLMS10 [82]
Wim Nuijten	6	375	BaptisteLPN06 [38], GodardLN05 [203], BaptistePN01 [41], SourdN00 [469], FocacciLN00 [177], NuijtenP98 [396]
Emmanuel Poder	6	27	BeldiceanuCDP11 [71], abs-0907-0939 [413], BeldiceanuCP08 [72], PoderB08 [414], BeldiceanuP07 [73], PoderBS04 [415]
Louis-Martin Rousseau	6	103	CappartTSR18 [117], DoulabiRP16 [161], PesantRR15 [412], DoulabiRP14 [160], ChapadosJR11 [127], HachemiGR11 [223]
Cyrille Dejemeppe	5	8	CauwelaertDS20 [125], CauwelaertDMS16 [123], Dejemeppe16 [148], DejemeppeCS15 [149], DejemeppeD14 [150]
Yves Deville	5	19	HoundjiSWD14 [261], DejemeppeD14 [150], SchausHMCMD11 [440], MonetteDH09 [369], MonetteDD07 [368]
Mark G. Wallace	5	123	SchuttFSW13 [448], SchuttCSW12 [442], GuSW12 [221], SchuttFSW11 [447], abs-1009-0347 [446]
Roger Kameugne	5	14	KameugneFND23 [276], KameugneFGOQ18 [275], Kameugne15 [274], KameugneFSN14 [278], KameugneFSN11 [277]
Juan M. Novas	5	148	Novas19 [391], NovaraNH16 [390], NovasH14 [394], NovasH12 [393], NovasH10 [392]
Kenneth N. Brown	5	44	AntunesABDEGGOL20 [15], AntunesABDEGGOL18 [14], MurphyMB15 [377], WuBB09 [542], WuBB05 [541]
Mohamed Siala	5	9	AntunesABDEGGOL20 [15], AntunesABDEGGOL18 [14], Siala15 [458], SialaAH15 [460], Siala15a [459]
Marek Vlk	5	14	abs-2305-19888 [243], HeinzNVH22 [242], VlkHT21 [526], BenediktSMVH18 [78], BartakV15 [50]
Nic Wilson	5	28	AntunesABDEGGOL20 [15], AntunesABDEGGOL18 [14], BeckW07 [64], BeckW05 [63], BeckW04 [62]
Armin Wolf	5	36	GeitzGSSW22 [198], SchuttW10 [451], WolfS05 [539], SchuttWS05 [452], Wolf03 [538]
André A. Ciré	4	50	CireCH13 [130], LopesCSM10 [342], MouraSCL08 [374], MouraSCL08a [373]
Andrea Bartolini	4	40	BorghesiBLMB18 [104], BridiBLMB16 [109], BridiLBBM16 [110], BartoliniBBLM14 [51]
Steven Gay	4	42	GayHLS15 [189], GayHS15 [190], GayHS15a [191], GaySS14 [192]
Tobias Geibinger	4	6	GeibingerKKMMW21 [194], GeibingerMM21 [197], GeibingerMM19 [196], abs-1911-04766 [195]
Arnaud Malapert	4	16	NattafM20 [384], MalapertN19 [354], Malapert11 [353], GrimesHM09 [215]
Laurent Michel	4	39	TardivoDFMP23 [480], SchausHMCMD11 [440], HentenryckM08 [246], HentenryckM04 [245]
Florian Mischek	4	6	GeibingerKKMMW21 [194], GeibingerMM21 [197], GeibingerMM19 [196], abs-1911-04766 [195]
Jean-Noël Monette	4	15	CauwelaertDMS16 [123], SchausHMCMD11 [440], MonetteDH09 [369], MonetteDD07 [368]
Margaux Nattaf	4	20	NattafM20 [384], MalapertN19 [354], NattafAL17 [383], NattafAL15 [382]
Goldie Nejat	4	50	TranVNB17 [503], TranVNB17a [504], BoothNB16 [103], LouieVNB14 [345]
Yanick Ouellet	4	10	OuelletQ22 [401], FahimiOQ18 [170], KameugneFGOQ18 [275], OuelletQ18 [400]
Gilles Pesant	4	60	AalianPG23 [1], DoulabiRP16 [161], PesantRR15 [412], DoulabiRP14 [160]
Thierry Petit	4	20	DerrienP14 [154], DerrienPZ14 [155], ClercqPB11 [131], abs-0907-0939 [413]
Cédric Pralet	4	10	SquillaciPR23 [470], Pralet17 [421], HebrardHJMPV16 [233], PraletLJ15 [422]
Adrian R. Pearce	4	35	BlomPS16 [90], BurtLPS15 [113], BlomBPS14 [89], LipovetzkyBPS14 [329]
Dhananjay R. Thiruvady	4	32	abs-2402-00459 [386], abs-2211-14492 [472], ThiruvadyWGS14 [490], ThiruvadyBME09 [489]
Christine Solnon	4	20	GroleazNS20 [218], GroleazNS20a [217], SacramentoSP20 [436], MelgarejoLS15 [8]
József Vánca	4	9	KovacsV06 [299], KovacsEKV05 [296], KovacsV04 [298], VanczaM01 [513]
Toby Walsh	4	2	GelainPRVW17 [199], BessiereHMQW14 [83], ChuGNSW13 [128], HebrardTW05 [234]
Felix Winter	4	0	LacknerMMWW23 [313], WinterMMW22 [537], LacknerMMWW21 [312], GeibingerKKMMW21 [194]
Francisco Yuraszeck	4	25	YuraszeckMCCR23 [547], YuraszeckMC23 [547], YuraszeckMPV22 [548], MejiaY20 [361]
Max Åstrand	4	27	Astrand0F21 [28], Astrand21 [27], AstrandJZ20 [30], AstrandJZ18 [29]

Table 8: Co-Authors of Articles/Papers

Author	Nr Works	Nr Cites	Entries
Miguel A. Salido	3	45	BartakS11 [48], BartakSR10 [49], AbrilSB05 [4]
Bruno A. Prata	3	1	PrataAN23 [423], AbreuNP23 [145], AbreuPNF23 [3]
Maliheh Aramon Bajestani	3	31	BajestaniB15 [35], BajestaniB13 [34], BajestaniB11 [33]
S��verine Betmbe Fetgo	3	1	KameugneFND23 [276], FetgoD22 [176], KameugneFGOQ18 [275]
Miquel Bofill	3	11	BofillCSV17 [92], BofillGSV15 [94], BofillEGPSV14 [93]
Thomas Bridi	3	29	BridiBLMB16 [109], BridiLBBM16 [110], BartoliniBBLM14 [51]
Cid C. de Souza	3	21	MouraSCL08 [374], MouraSCL08a [373], HeipckeCCS00 [244]
Quentin Cappart	3	8	PopovicCGNC22 [418], CappartTSR18 [117], CappartS17 [116]
Jacques Carlier	3	779	CarlierP94 [121], CarlierP90 [120], CarlierP89 [119]
Ondrej Cepek	3	36	BartakCS10 [47], VilimBC05 [523], VilimBC04 [522]
Erich Christian Teppan	3	11	Teppan22 [484], ColT22 [136], ColT19 [135]
Geoffrey Chu	3	42	ChuGNSW13 [128], SchuttCSW12 [442], BandaSC11 [146]
Giacomo Da Col	3	11	ColT22 [136], abs-2102-08778 [134], ColT19 [135]
Sophie Demassey	3	36	HermenierDL11 [247], BeldiceanuCDP11 [71], Demassey03 [151]
Alban Derrien	3	17	Derrien15 [153], DerrienP14 [154], DerrienPZ14 [155]
Ignacio E. Grossmann	3	463	MaraveliasG04 [357], HarjunkoskiG02 [228], JainG01 [266]
Jeremy Frank	3	7	TranWDRFOVB16 [505], TranDRFWOVB16 [500], FrankK05 [180]
Douglas G. Down	3	20	TranPZLDB18 [501], TerekhovTDB14 [486], TranTDB13 [502]
Michele Garraffa	3	1	AlfieriGPS23 [11], ArmstrongGOS22 [21], ArmstrongGOS21 [20]
Martin Gebser	3	0	TasselGS23 [481], abs-2306-05747 [482], KovacsTKSG21 [300]
Jean-Claude Gentina	3	8	KorbaaYG00 [291], LopezAKYG00 [343], KorbaaYG99 [290]
Hanyu Gu	3	34	ThiruvadyWGS14 [490], GuSS13 [220], GuSW12 [221]
Renaud Hartert	3	35	GayHLS15 [189], GayHS15 [190], GayHS15a [191]
Brahim Hnich	3	68	GokgurHO18 [207], OzturkTHO13 [403], RossiTHP07 [434]
Marie-Jos�� Hugu��t	3	12	AntuoriHHEN21 [17], AntuoriHHEN20 [16], HebrardHJMPV16 [233]
Andrew J. Davenport	3	13	Davenport10 [141], DavenportKRSH07 [142], BeckDF97 [56]
Willem Jan van Hoeve	3	12	HookerH18 [259], HoeveGSL07 [512], GomesHS06 [211]
Mikael Johansson	3	27	Astrand0F21 [28], AstrandJZ20 [30], AstrandJZ18 [29]
Narendra Jussien	3	13	ClercqPBJ11 [131], ElkhyariGJ02 [164], ElkhyariGJ02a [165]
Tam��s Kis	3	6	KovacsK11 [297], KeriK07 [282], KovacsEKV05 [296]
Ouajdi Korbaa	3	8	KorbaaYG00 [291], LopezAKYG00 [343], KorbaaYG99 [290]
Stefan Kreter	3	47	KreterSSZ18 [303], KreterSS17 [302], KreterSS15 [301]
Krzysztof Kuchcinski	3	24	WolinskiKG04 [540], KuchcinskiW03 [305], GruianK98 [219]
Arnaud Letort	3	23	LetortCB15 [321], LetortCB13 [320], LetortBC12 [319]
Tony Minoru Tamura Lopes	3	47	LopesCSM10 [342], MouraSCL08 [374], MouraSCL08a [373]
Christina N. Burt	3	15	BurtLPS15 [113], BlomBPS14 [89], LipovetzkyBPS14 [329]
Hiroki Nishikawa	3	3	NishikawaSTT19 [389], NishikawaSTT18 [387], NishikawaSTT18a [388]
Erwin Pesch	3	1045	MullerMKP22 [375], BlazewiczEP19 [87], BruckerDMNP99 [111]
Eric Pinson	3	779	CarlierP94 [121], CarlierP90 [120], CarlierP89 [119]
Levi Ribeiro de Abreu	3	11	AbreuNP23 [145], AbreuN22 [144], AbreuAPNM21 [143]
Mark S. Fox	3	27	BeckF00 [59], BeckF98 [58], BeckDF97 [56]
Jens Schulz	3	40	HeinzSB13 [241], HeinzS11 [240], BertholdHLMS10 [82]
Marcelo Seido Nagano	3	11	AbreuNP23 [145], AbreuN22 [144], AbreuAPNM21 [143]
Paul Shaw	3	809	LaborieRSV18 [311], VilimLS15 [524], Shaw98 [455]
Kana Shimada	3	3	NishikawaSTT19 [389], NishikawaSTT18 [387], NishikawaSTT18a [388]
Gilles Simonin	3	8	GodetLHS20 [205], SimoninAHL15 [462], SimoninAHL12 [461]
Tiago Stegun Vaquero	3	29	TranVNB17 [503], TranVNB17a [504], LouieVNB14 [345]
Josep Suy	3	11	BofillCSV17 [92], BofillGSV15 [94], BofillEGPSV14 [93]
Ittetsu Taniguchi	3	3	NishikawaSTT19 [389], NishikawaSTT18 [387], NishikawaSTT18a [388]
Pierre Tassel	3	0	TasselGS23 [481], abs-2306-05747 [482], KovacsTKSG21 [300]
Daria Terekhov	3	20	TerekhovTDB14 [486], TranTDB13 [502], TerekhovDOB12 [485]
Hiroyuki Tomiyama	3	3	NishikawaSTT19 [389], NishikawaSTT18 [387], NishikawaSTT18a [388]
Seyda Topaloglu Yildiz	3	20	IsikYA23 [265], YunusogluY22 [546], KucukY19 [307]
Sascha Van Cauwelaert	3	8	CauwelaertLS18 [124], CauwelaertDMS16 [123], DejemeppeCS15 [149]
G��rard Verfaillie	3	119	HebrardHJMPV16 [233], VerfaillieL01 [514], BensanaLV99 [81]

Table 8: Co-Authors of Articles/Papers

Author	Nr Works	Nr Cites	Entries
Arnaldo Vieira Moura	3	47	LopesCSM10 [342], MouraSCL08 [374], MouraSCL08a [373]
Mateu Villaret	3	11	BofillCSV17 [92], BofillGSV15 [94], BofillEGPSV14 [93]
Daniel Walkiewicz	3	0	LacknerMMWW23 [313], WinterMMW22 [537], LacknerMMWW21 [312]
Pascal Yim	3	8	KorbaaYG00 [291], LopezAKYG00 [343], KorbaaYG99 [290]
Alessandro Zanarini	3	25	AstrandJZ20 [30], AstrandJZ18 [29], BonfiettiZLM16 [102]
Luis Zeballos	3	35	ZeballosQH10 [553], ZeballosH05 [552], QuirogaZH05 [428]
Laurence A. Wolsey	2	50	HoundjiSWD14 [261], SadykovW06 [438]
Daniel A. Desmond	2	1	AntunesABDEGGOL20 [15], AntunesABDEGGOL18 [14]
Mark Antunes	2	1	AntunesABDEGGOL20 [15], AntunesABDEGGOL18 [14]
Valentin Antuori	2	3	AntuoriHHEN21 [17], AntuoriHHEN20 [16]
Vincent Armant	2	1	AntunesABDEGGOL20 [15], AntunesABDEGGOL18 [14]
Eddie Armstrong	2	1	ArmstrongGOS22 [21], ArmstrongGOS21 [20]
Amelia Badica	2	4	BadicaBI20 [31], BadicaBIL19 [32]
Costin Badica	2	4	BadicaBI20 [31], BadicaBIL19 [32]
Pierre Baptiste	2	13	BoucherBVB197 [105], BaptisteLV92 [42]
Nicolas Barnier	2	0	WangB23 [531], WangB20 [530]
Ondrej Benedikt	2	3	BenediktMH20 [77], BenediktSMVH18 [78]
Davide Bertozzi	2	27	RuggieroBBMA09 [435], BeniniBGM06 [79]
Jean-Charles Billaut	2	23	BillautHL12 [85], LorigeonBB02 [344]
Jacek Blazewicz	2	985	BlazewiczEP19 [87], BlazewiczLK83 [88]
Andrea Borghesi	2	23	BorghesiBLMB18 [104], BartoliniBBLM14 [51]
Dario Canut-de-Bon	2	1	YuraszekMCCR23 [549], YuraszekMC23 [547]
Amedeo Cesta	2	13	OddiPCC03 [397], CestaOS98 [126]
Elvin Coban	2	12	CireCH13 [130], CobanH10 [132]
Yves Colombani	2	9	HeipckeCCS00 [244], Colombani96 [137]
Joseph D. Scott	2	13	KameugneFSN14 [278], KameugneFSN11 [277]
Rina Dechter	2	889	FrostD98 [184], DechterMP91 [147]
Mauro Dell’Amico	2	2	MontemanniD23 [371], MontemanniD23a [370]
Minh Do	2	3	TranWDRFOVB16 [505], TranDRFWOVB16 [500]
Hani El Sakkout	2	82	KamarainenS02 [273], SakkoutW00 [439]
Abdallah Elkhyari	2	10	ElkhyariGJ02 [164], ElkhyariGJ02a [165]
Tamer Eren	2	1	GurPAE23 [222], GurEA19 [566]
Guillaume Escamocher	2	1	AntunesABDEGGOL20 [15], AntunesABDEGGOL18 [14]
Siham Essodaigui	2	3	AntuoriHHEN21 [17], AntuoriHHEN20 [16]
Caroline Even	2	3	EvenSH15 [168], EvenSH15a [169]
Minhaz F. Zibran	2	43	ZibranR11 [563], ZibranR11a [564]
Azadeh Farsi	2	25	FarsiTM22 [174], MokhtarzadehTNF20 [367]
Dominique Feillet	2	19	Acuna-AgostMFG09 [5], ArtiguesBF04 [23]
Maurizio Gabbrielli	2	10	LiuCGM17 [331], FalaschiGMP97 [171]
Michel Gamache	2	0	AalianPG23 [1], CampeauG22 [115]
Marc Garcia	2	10	BofillGSV15 [94], BofillEGPSV14 [93]
Antonio Garrido	2	27	GarridoAO09 [187], GarridoOS08 [188]
Anne-Marie George	2	1	AntunesABDEGGOL20 [15], AntunesABDEGGOL18 [14]
Eleanor Gilbert Rieffel	2	3	TranWDRFOVB16 [505], TranDRFWOVB16 [500]
Vincent Gingras	2	1	KameugneFGOQ18 [275], GingrasQ16 [202]
Arthur Godet	2	1	Godet21a [204], GodetLHS20 [205]
Adrian Goldwaser	2	8	GoldwaserS18 [209], GoldwaserS17 [208]
Arnaud Gotlieb	2	9	MossigeGSMC17 [372], AlesioNBG14 [156]
Lucas Groleaz	2	4	GroleazNS20 [218], GroleazNS20a [217]
Christelle Gu��ret	2	10	ElkhyariGJ02 [164], ElkhyariGJ02a [165]
Andy Ham	2	0	HamPK21 [225], Ham18 [224]
Vil��m Heinz	2	5	abs-2305-19888 [243], HeinzNVH22 [242]
Seyed Hossein Hashemi Doulabi	2	59	DoulabiRP16 [161], DoulabiRP14 [160]
Laurent Houssin	2	0	JuvinHHL23 [271], JuvinHL23 [272]
Georgiana Ifrim	2	12	GrimesIOS14 [216], IfrimOS12 [264]

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Author	Nr Works	Nr Cites	Entries
Mirjana Ivanovic	2	4	BadicaBI20 [31], BadicaBIL19 [32]
Carla Juvin	2	0	JuvinHHL23 [271], JuvinHL23 [272]
Chanchal K. Roy	2	43	ZibranR11 [563], ZibranR11a [564]
Lucas Kletzander	2	1	GeibingerKKMMW21 [194], KletzanderM17 [287]
Rainer Kolisch	2	844	PohlAK22 [416], KolischS97 [289]
Jan Kristof Behrens	2	12	BehrensLM19 [67], abs-1901-07914 [68]
Wen-Yang Ku	2	128	KuB16 [304], HeinzKB13 [238]
Michelle L. Blom	2	35	BlomPS16 [90], BlomBPS14 [89]
Marie-Louise Lackner	2	0	LacknerMMWW23 [313], LacknerMMWW21 [312]
Arnaud Lallouet	2	0	PerezGSL23 [410], abs-2312-13682 [411]
Evelina Lamma	2	12	LammaMM97 [315], BrusoniCLMMT96 [112]
Ralph Lange	2	12	BehrensLM19 [67], abs-1901-07914 [68]
Bruno Legeard	2	13	BoucherBVBL97 [105], BaptisteLV92 [42]
Michel Lemaître	2	110	VerfaillieL01 [514], BensanaLV99 [81]
BoonPing Lim	2	6	LimHTB16 [325], LimBTBB15 [326]
Kamol Limtanyakul	2	6	LimtanyakulS12 [328], Limtanyakul07 [327]
Yiqing Lin	2	1	AntunesABDEGGOL20 [15], AntunesABDEGGOL18 [14]
Nir Lipovetzky	2	0	BurtLPS15 [113], LipovetzkyBPS14 [329]
James Little	2	30	KrogtLPHJ07 [511], Darby-DowmanLMZ97 [140]
Shixin Liu	2	0	LiFJZLL22 [322], ZhangJZL22 [554]
Xavier Lorca	2	29	GodetLHS20 [205], HermenierDL11 [247]
Abid M. Malik	2	15	Malik08 [355], MalikMB08 [356]
Gilles Madi-Wamba	2	1	Madi-WambaLOBM17 [351], Madi-WambaB16 [350]
Adrien Maillard	2	9	HebrardALLCMR22 [232], HebrardHJMPV16 [233]
Masoumeh Mansouri	2	12	BehrensLM19 [67], abs-1901-07914 [68]
Gonzalo Mejía	2	25	YuraszeckMC23 [547], MejiaY20 [361]
Paola Mello	2	12	LammaMM97 [315], BrusoniCLMMT96 [112]
Philippe Michelon	2	25	Acuna-AgostMFG09 [5], LiessM08 [323]
Mahdi Mokhtarzadeh	2	25	FarsiTM22 [174], MokhtarzadehTNF20 [367]
Roberto Montemanni	2	2	MontemanniD23 [371], MontemanniD23a [370]
Christoph Mrkvicka	2	0	LacknerMMWW23 [313], LacknerMMWW21 [312]
István Módos	2	3	BenediktMH20 [77], BenediktSMVH18 [78]
Samba Ndojh Ndiaye	2	4	GroleazNS20 [218], GroleazNS20a [217]
Youcheu Ngo-Kateu	2	13	KameugneFSN14 [278], KameugneFSN11 [277]
Alain Nguyen	2	3	AntuoriHHEN21 [17], AntuoriHHEN20 [16]
Su Nguyen	2	0	abs-2402-00459 [386], abs-2211-14492 [472]
Antonín Novák	2	5	abs-2305-19888 [243], HeinzNVH22 [242]
Bryan O’Gorman	2	3	TranWDRFOVB16 [505], TranDRFWOVB16 [500]
Mike O’Keeffe	2	1	AntunesABDEGGOL20 [15], AntunesABDEGGOL18 [14]
Angelo Oddi	2	13	OddiPCC03 [397], CestaOS98 [126]
Eva Onaandia	2	27	GarridoAO09 [187], GarridoOS08 [188]
Cemalettin Ozturk	2	1	AntunesABDEGGOL20 [15], AntunesABDEGGOL18 [14]
Carla P. Gomes	2	0	HoeveGSL07 [512], GomesHS06 [211]
Laure Pauline Fotso	2	13	KameugneFSN14 [278], KameugneFSN11 [277]
Guillaume Perez	2	0	PerezGSL23 [410], abs-2312-13682 [411]
Enrico Pontelli	2	0	TardivoDFMP23 [480], VillaverdeP04 [525]
Luis Quesada	2	1	AntunesABDEGGOL20 [15], AntunesABDEGGOL18 [14]
Oscar Quiroga	2	35	ZeballosQH10 [553], QuirogaZH05 [428]
Günther R. Raidl	2	14	FrohnerTR19 [183], RendIPHPR12 [429]
Levi R. Abreu	2	0	PrataAN23 [423], AbreuPNF23 [3]
Philippe Refalo	2	46	GarganiR07 [186], BeckR03 [61]
Francesca Rossi	2	29	GelainPRVW17 [199], BartakSR10 [49]
Martino Ruggiero	2	27	BeniniLMR11 [80], RuggieroBBMA09 [435]
Marcelo S. Nagano	2	0	PrataAN23 [423], AbreuPNF23 [3]
Ruslan Sadykov	2	56	SadykovW06 [438], Sadykov04 [437]

Table 8: Co-Authors of Articles/Papers

Author	Nr Works	Nr Cites	Entries
Konstantin Schekotihin	2	0	TasselGS23 [481], abs-2306-05747 [482]
Gunnar Schrader	2	12	WolfS05 [539], SchuttWS05 [452]
Christian Schulte	2	5	WessenCS20 [535], FrimodigS19 [182]
Bart Selman	2	0	HoeveGSL07 [512], GomesHS06 [211]
Wijnand Suijlen	2	0	PerezGSL23 [410], abs-2312-13682 [411]
Yuan Sun	2	0	abs-2402-00459 [386], abs-2211-14492 [472]
Andreas T. Ernst	2	13	abs-2211-14492 [472], ThiruvadyBME09 [489]
Reza Tavakkoli-Moghaddam	2	25	Mehdizadeh-Somarin23 [360], MokhtarzadehTNF20 [367]
Clémentin Tayou Djamégni	2	0	KameugneFND23 [276], FetgoD22 [176]
Erich Teppan	2	3	abs-2102-08778 [134], FriedrichFMRSS14 [181]
Alexander Tesch	2	9	Tesch18 [488], Tesch16 [487]
Sylvie Thiébaux	2	6	LimHTB16 [325], LimBTBB15 [326]
Behdin Vahedi Nouri	2	25	Mehdizadeh-Somarin23 [360], MokhtarzadehTNF20 [367]
Christophe Varnier	2	13	BoucherBVBL97 [105], BaptisteLV92 [42]
Davide Venturelli	2	3	TranWDRFOVB16 [505], TranDRFWOVB16 [500]
Ruixin Wang	2	0	WangB23 [531], WangB20 [530]
Zhihui Wang	2	3	TranWDRFOVB16 [505], TranDRFWOVB16 [500]
Jean-Paul Watson	2	57	BeckFW11 [57], WatsonB08 [534]
Christine Wei Wu	2	42	WuBB09 [542], WuBB05 [541]
Christophe Wolinski	2	19	WolinskiKG04 [540], KuchcinskiW03 [305]
Farouk Yalaoui	2	3	OujanaAYB22 [402], ArbaouiY18 [19]
Neil Yorke-Smith	2	5	EfthymiouY23 [163], WallaceY20 [529]
Ziyan Zhao	2	0	LiFJZLL22 [322], ZhangJZL22 [554]
Jianyang Zhou	2	24	Zhou97 [560], Zhou96 [559]
Willem-Jan van Hoeve	2	50	GilesH16 [201], GoelSHFS15 [206]
Menkes van den Briel	2	6	LimHTB16 [325], LimBTBB15 [326]
Peter van Beek	2	16	BegB13 [66], MalikMB08 [356]
Jans, Raf	1	59	Jans09 [267]
Florian A. Herzog	1	2	KoehlerBFFHPSSS21 [288]
J. A. Hoogeveen	1	2	AkkerDH07 [509]
M. A. Hakim Newton	1	0	RiahiNS018 [430]
Viktoria A. Hauder	1	0	abs-1902-09244 [230]
Amr A. Kandil	1	24	TangLWSK18 [479]
Antonio A. Márquez	1	7	ValleMGT03 [508]
Kennedy A. G. Araújo	1	0	AbreuAPNM21 [143]
Steve A. Chien	1	0	HebrardALLCMR22 [232]
Sheila A. McIlraith	1	0	LuoVLBM16 [348]
Mehmet A. Begen	1	0	NaderiBZ22 [380]
Younes Aalian	1	0	AalianPG23 [1]
Hanaa Abohashima	1	1	AbohashimaEG21 [2]
Montserrat Abril	1	0	AbrilSB05 [4]
Rodrigo Acuna-Agost	1	3	Acuna-AgostMFG09 [5]
Joseph Adams	1	1054	AdamsBZ88 [6]
W. Adelman	1	17	EscobetPQPRA19 [167]
Michael Affenzeller	1	0	abs-1902-09244 [230]
Abderrahmane Aggoun	1	187	AggounB93 [7]
Penélope Aguiar-Melgarejo	1	14	MelgarejoLS15 [8]
Sanjay Ahire	1	0	KanetAG04 [279]
Aftab Ahmed Shaikh	1	0	ShaikhK23 [454]
Uwe Aickelin	1	0	abs-2211-14492 [472]
Ali Akbar Sadat Asl	1	55	ZarandiASC20 [551]
Mohsen Akbarpour Shirazi	1	28	ZarandiKS16 [550]
Arianna Alfieri	1	0	AlfieriGPS23 [11]
S. Ali Torabi	1	0	FarsiTM22 [174]
Samira Alizdeh	1	1	AlizdehS20 [12]

Table 8: Co-Authors of Articles/Papers

Author	Nr Works	Nr Cites	Entries
Hassane Alla	1	0	LopezAKYG00 [343]
Lionel Amodeo	1	1	OujanaAYB22 [402]
Schutt, Andreas	1	3	SchuttFSW15 [449]
Alexandru Andrei	1	9	RuggieroBBMA09 [435]
Ola Angelsmark	1	1	AngelsmarkJ00 [13]
Richard Anthony Valenzano	1	0	LuoVLBM16 [348]
M. Anton Ertl	1	14	ErtlK91 [166]
Zbigniew Antoni Banaszak	1	0	BocewiczBB09 [91]
David Applegate	1	536	ApplegateC91 [18]
Marlene Arangú	1	5	GarridoAO09 [187]
Arthur Araujo	1	72	TranAB16 [498]
Taha Arbaoui	1	2	ArbaouiY18 [19]
Martin Aronsson	1	0	AronssonBK09 [22]
M. Arslan Ornek	1	31	OzturkTHO13 [403]
Konstantin Artiouchine	1	3	ArtiouchineB05 [26]
Arezo Atighehchian	1	0	YounespourAKE19 [544]
Abdullah Ayub Khan	1	0	ShaikhK23 [454]
Emrah B. Edis	1	5	EdisO11 [162]
Amr B. Eltawil	1	1	AbohashimaEG21 [2]
Maya B. Gokhale	1	0	WolinskiKG04 [540]
David B. H. Tay	1	0	Tay92 [483]
Özalp Babaoglu	1	1	GalleguillosKSB19 [185]
Irena Bach	1	0	BocewiczBB09 [91]
Astrid Bachelu	1	0	BoucherBVBL97 [105]
Scott Backhaus	1	4	LimBTBB15 [326]
Naderi, Bahman	1	2	NaderiRR23 [381]
Egon Balas	1	1054	AdamsBZ88 [6]
Hari Balasubramanian	1	9	ShinBBHO18 [457]
Viet Bang Nguyen	1	0	LauLN08 [316]
Federico Barber	1	0	AbrilSB05 [4]
Ada Barlatt	1	1	BarlattCG08 [43]
Mohammadreza Barzegaran	1	0	BarzegaranZP20 [52]
Virginie Basini	1	8	Polo-MejiaALB20 [417]
Ralph Becket	1	344	NethercoteSBBDT07 [385]
Andreas Beham	1	0	abs-1902-09244 [230]
N Beldiceanu	1	167	BeldiceanuC94 [69]
Said Belhadji	1	3	BelhadjiI98 [74]
Sana Belmokhtar	1	16	ArtiguesBF04 [23]
Fatima Benbouzid-Si Tayeb	1	0	TouatBT22 [496]
Till Bender	1	1	BenderWS21 [75]
Belaid Benhamou	1	0	TouatBT22 [496]
Hachemi Bennaceur	1	8	KhemmoudjPB06 [284]
E. Bensana	1	99	BensanaLV99 [81]
Russell Bent	1	4	LimBTBB15 [326]
Timo Berthold	1	28	BertholdHMLS10 [82]
Christian Bessiere	1	1	BessiereHMQW14 [83]
Julien Bidot	1	58	BidotVLB09 [84]
Arthur Bit-Monnot	1	0	Bit-Monnot23 [86]
Christian Blum	1	13	ThiruvadyBME09 [489]
Grzegorz Bocewicz	1	0	BocewiczBB09 [91]
Markus Bohlin	1	0	AronssonBK09 [22]
Nicolas Bonifas	1	3	BaptisteB18 [37]
Eric Boucher	1	0	BoucherBVBL97 [105]
Raphaël Boudreault	1	0	BoudreaultSLQ22 [106]
Jean-Louis Bouquard	1	22	LorigeonBB02 [344]



Table 8: Co-Authors of Articles/Papers

Author	Nr Works	Nr Cites	Entries
Eric Bourreau	1	4	BourreauGGLT22 [107]
Sebastian Brand	1	344	NethercoteSBBDT07 [385]
Silvia Breitingner	1	0	BreitingnerL95 [108]
Kristen Brent Venable	1	1	GelainPRVW17 [199]
Dirk Briskorn	1	577	HartmannB10 [229]
D. Brodart	1	1	OujanaAYB22 [402]
Peter Brucker	1	990	BruckerDMNP99 [111]
Yuriy Brun	1	9	ShinBBHO18 [457]
Vittorio Brusoni	1	1	BrusoniCLMMT96 [112]
Josef Bürgler	1	2	KoehlerBFFHPSSS21 [288]
Cristina C. B. Cavalcante	1	5	HeipckeCCS00 [244]
Lionel C. Briand	1	3	AlesioNBG14 [156]
Eugene C. Freuder	1	0	CarchraeBF05 [118]
Kevin C. Furman	1	48	GoelSHFS15 [206]
Joseph C. Pemberton	1	26	PembertonG98 [409]
Hendrik C. R. Lock	1	0	BreitingnerL95 [108]
Eray Cakici	1	50	HamC16 [226]
Louis-Pierre Campeau	1	0	CampeauG22 [115]
Tom Carchrae	1	0	CarchraeBF05 [118]
Cid Carvalho de Souza	1	31	LopesCSM10 [342]
Yves Caseau	1	0	Caseau97 [122]
Oscar Castillo	1	55	ZarandiASC20 [551]
Yao-Ting Chang	1	2	HoYCLLC18 [249]
Nicolas Chapados	1	5	ChapadosJR11 [127]
Philippe Charlier	1	11	SimonisCK00 [467]
Mohammad Cherkaoui	1	0	FallahAC20 [172]
Han-Mo Chiu	1	2	HoYCLLC18 [249]
Yeonjun Choi	1	0	KimCMLLP23 [285]
Yingyi Chu	1	13	ChuX05 [129]
Sue-Min Chu	1	2	HoYCLLC18 [249]
Hoong Chuin Lau	1	0	LauLN08 [316]
Michael Codish	1	127	OhrimenkoSC09 [398]
Carleton Coffrin	1	14	SchausHMCMD11 [440]
Eldan Cohen	1	1	CohenHB17 [133]
Jordi Coll Caballero	1	0	Caballero23 [114]
Jordi Coll	1	1	BofillCSV17 [92]
Luca Console	1	1	BrusoniCLMMT96 [112]
E Contejean	1	167	BeldiceanuC94 [69]
William Cook	1	536	ApplegateC91 [18]
Trijntje Cornelissens	1	17	SimonisC95 [468]
Gabriella Cortellessa	1	8	OddiPCC03 [397]
Nicolás Cuneo	1	0	YuraszeckMCCR23 [549]
Alain Côté	1	0	PopovicCGNC22 [418]
Kenneth D. Young	1	6	YoungFS17 [545]
Laurent D. Michel	1	3	FontaineMH16 [178]
Steven D. Prestwich	1	6	RossiTHP07 [434]
Michael D. Moffitt	1	0	MoffittPP05 [366]
Emilie Danna	1	21	DannaP03 [139]
Ken Darby-Dowman	1	28	Darby-DowmanLMZ97 [140]
Vivian De Smedt	1	7	GaySS14 [192]
Alexis De Clercq	1	3	ClercqPBJ11 [131]
Carmelo Del Valle	1	7	ValleMGTO3 [508]
Xavier Delorme	1	0	RodriguezDG02 [432]
Alain Demeure	1	0	JourdanFRD94 [269]
Emir Demirovic	1	4	DemirovicS18 [152]

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Author	Nr Works	Nr Cites	Entries
Roberto Di Cosmo	1	0	LiuCGM17 [331]
Guido Diepen	1	2	AkkerDH07 [509]
Bistra Dilkina	1	2	DilkinaDH05 [157]
Mehmet Dincbas	1	86	DincbasSH90 [158]
Grégoire Dooms	1	1	DoomsH08 [159]
Agostino Dovier	1	0	TardivoDFMP23 [480]
Andreas Drexl	1	990	BruckerDMNP99 [111]
Yuquan Du	1	27	QinDCS20 [426]
Lei Duan	1	2	DilkinaDH05 [157]
Alexandre Duarte de Almeida Lemos	1	0	Lemos21 [318]
Didier Dubois	1	13	FortinZDF05 [179]
Pierre Dupont	1	0	MonetteDD07 [368]
David Duvivier	1	36	WangMD15 [532]
Kyle E. C. Booth	1	21	BoothNB16 [103]
Marco E. Lübbecke	1	28	BertholdHLMS10 [82]
Andrew E. Santosa	1	0	ZhuS02 [562]
Martha E. Pollack	1	0	MoffittPP05 [366]
Nikolaos Efthymiou	1	0	EfthymiouY23 [163]
Gokhan Egilmez	1	43	GedikKEK18 [193]
Péter Egri	1	2	KovacsEKV05 [296]
Nizar El Hachemi	1	32	HachemiGR11 [223]
Ghada El Khayat	1	84	KhayatLR06 [283]
Abdellah El Fallahi	1	0	FallahiAC20 [172]
Sebastian Engell	1	3	KlankeBYE21 [286]
Eyüp Ensar Isik	1	0	IsikYA23 [265]
Teresa Escobet	1	17	EscobetPQPRA19 [167]
Joan Espasa	1	3	BofillEGPSV14 [93]
Stephen F. Smith	1	5	CestaOS98 [126]
Michael F. Gorman	1	0	KanetAG04 [279]
Jacques F. Benders	1	2583	Benders62 [76]
Mohd Fadlee A. Rasid	1	0	AkramNHRSA23 [9]
François Fages	1	0	JourdanFRD94 [269]
Hamed Fahimi	1	2	FahimiOQ18 [170]
Moreno Falaschi	1	10	FalaschiGMP97 [171]
Huali Fan	1	18	FanXG21 [173]
Hélène Fargier	1	13	FortinZDF05 [179]
Soroush Fatemi-Anaraki	1	0	Fatemi-AnarakiMFN22 [175]
Filippo Focacci	1	0	FocacciLN00 [177]
Daniel Fontaine	1	3	FontaineMH16 [178]
Urs Fontana	1	2	KoehlerBFFHPSSS21 [288]
Andrea Formisano	1	0	TardivoDFMP23 [480]
Jérôme Fortin	1	13	FortinZDF05 [179]
Mehdi Foumani	1	0	Fatemi-AnarakiMFN22 [175]
Gerhard Friedrich	1	3	FriedrichFMRSS14 [181]
Sara Frimodig	1	3	FrimodigS19 [182]
Nikolaus Frohner	1	0	FrohnerTR19 [183]
Daniel Frost	1	10	FrostD98 [184]
Melanie Frühstück	1	3	FriedrichFMRSS14 [181]
Jun Fu	1	0	LiFJZLL22 [322]
Etienne Fux	1	2	KoehlerBFFHPSSS21 [288]
Ernesto G. Birgin	1	30	LunardiBLRV20 [346]
Mohamed Gaha	1	0	PopovicCGNC22 [418]
Flavius Galiber III	1	26	PembertonG98 [409]
Cristian Galleguillos	1	1	GalleguillosKSB19 [185]

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Author	Nr Works	Nr Cites	Entries
Xavier Gandibleux	1	0	RodriguezDG02 [432]
Graeme Gange	1	6	He0GLW18 [231]
Thierry Garaix	1	4	BourreauGGLT22 [107]
Maria Garcia de la Banda	1	24	BandaSC11 [146]
Antoine Gargani	1	17	GarganiR07 [186]
Serge Gaspers	1	0	ChuGNSW13 [128]
Jonathan Gaudreault	1	2	Mercier-AubinGQ20 [365]
Ridvan Gedik	1	43	GedikKEK18 [193]
Marc Geitz	1	0	GeitzGSSW22 [198]
Mirco Gelain	1	1	GelainPRVW17 [199]
Michel Gendreau	1	32	HachemiGR11 [223]
Wing-Yue Geoffrey Louie	1	16	LouieVNB14 [345]
Marcus Gerhard Müller	1	17	MullerMKP22 [375]
Patrick Gerhards	1	0	HubnerGSV21 [262]
Ulrich Geske	1	2	Geske05 [200]
Katherine Giles	1	2	GilesH16 [201]
Gaël Glorian	1	0	PerezGSL23 [410]
Gael Glorian	1	0	abs-2312-13682 [411]
Daniel Godard	1	0	GodardLN05 [203]
Vikas Goel	1	48	GoelSHFS15 [206]
Mark Goh	1	18	FanXG21 [173]
Hans-Joachim Goltz	1	7	Goltz95 [210]
Matthieu Gondran	1	4	BourreauGGLT22 [107]
Cristian Grozea	1	0	GeitzGSSW22 [198]
Flavius Gruian	1	5	GruianK98 [219]
Alessio Guerri	1	18	BeniniBGM06 [79]
Serigne Gueye	1	3	Acuna-AgostMFG09 [5]
Ying Guo	1	0	ZhouGL15 [561]
Şeyda Gür	1	0	GurEA19 [566]
Burak Gökgür	1	31	GokgurHO18 [207]
Seyda Gür	1	1	GurPAE23 [222]
Fehmi H'Mida	1	11	TrojetHL11 [506]
Rolf H. Möhring	1	28	BertholdHLMs10 [82]
John H. Drake	1	41	PourDERB18 [419]
M. H. Fazel Zarandi	1	28	ZarandiKS16 [550]
Klaus H. Ecker	1	38	BlazewiczEP19 [87]
Emile H. L. Aarts	1	0	NuijtenA94 [395]
A. H. G. Rinnooy Kan	1	947	BlazewiczLK83 [88]
Claire Hanen	1	1	HanenKP21 [227]
Jiang Hang Chen	1	27	QinDCS20 [426]
Sue Hanhilammi	1	2	KrogtLPHJ07 [511]
Mohamed Haouari	1	3	LahimerLH11 [314]
Iiro Harjunoski	1	169	HarjunoskiG02 [228]
Sönke Hartmann	1	577	HartmannB10 [229]
Fazirulhisyam Hashim	1	0	AkramNHRSA23 [9]
Shan He	1	6	He0GLW18 [231]
Ivan Heckman	1	0	HeckmanB11 [236]
Susanne Heipcke	1	5	HeipckeCCS00 [244]
Fabien Hermenier	1	28	HermenierDL11 [247]
Gerhard Hiermann	1	14	RendlPHPR12 [429]
Alessandro Hill	1	0	HillTV21 [248]
Te-Wei Ho	1	2	HoYCLLC18 [249]
Petra Hofstedt	1	1	LiuLH19 [330]
Mohammad Hossein Fazel Zarandi	1	55	ZarandiASC20 [551]

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Author	Nr Works	Nr Cites	Entries
John Hou	1	1	DavenportKRSH07 [142]
Guoyu Huang	1	1	CohenHB17 [133]
Barry Hurley	1	0	HurleyOS16 [263]
Felix Hübner	1	0	HubnerGSV21 [262]
Amar Isli	1	3	BelhadjiI98 [74]
Mustafa Ismael Salman	1	0	AkramNHRSA23 [9]
Fernando J. M. Marcellino	1	0	SerraNM12 [453]
Leon J. Osterweil	1	9	ShinBBHO18 [457]
H. J. Kim	1	12	SureshMOK06 [474]
John J. Kanet	1	0	KanetAG04 [279]
Colin J. Layfield	1	0	Layfield02 [317]
Andrew J. Mason	1	5	Mason01 [359]
Gregory J. Duck	1	344	NethercoteSBBDT07 [385]
Vipul Jain	1	279	JainG01 [266]
Jean Jaubert	1	0	PraletLJ15 [422]
Jan Jelínek	1	0	JelinekB16 [268]
Yingjun Ji	1	0	ZhangJZL22 [554]
Zixi Jia	1	0	LiFJZLL22 [322]
Yunfei Jiang	1	0	LiuJ06 [332]
Yue Jin	1	2	KrogtLPHJ07 [511]
Marc Joliveau	1	5	ChapadosJR11 [127]
Peter Jonsson	1	1	AngelsmarkJ00 [13]
Jean Jourdan	1	0	JourdanFRD94 [269]
Nicolas Jozefowicz	1	9	HebrardHJMPV16 [233]
Jae-Yoon Jung	1	1	ParkUJR19 [408]
Pascal Jungblut	1	0	JungblutK22 [270]
T. K. Satish Kumar	1	4	Kumar03 [306]
Edmund K. Burke	1	41	PourDERB18 [419]
Mustafa K. Dogru	1	8	TerekhovDOB12 [485]
T. K. Feng	1	43	BeckFW11 [57]
Jayant Kalagnanam	1	1	DavenportKRSH07 [142]
Darshan Kalathia	1	43	GedikKEK18 [193]
Olli Kamarainen	1	9	KamarainenS02 [273]
Nor Kamariah Noordin	1	0	AkramNHRSA23 [9]
Jan Karel Lenstra	1	947	BlazewiczLK83 [88]
Czerniachowska, Kateryna	1	0	CzerniachowskaWZ23 [138]
Philip Kay	1	11	SimonisCK00 [467]
Elena Kelareva	1	16	KelarevaTK13 [280]
Jan Kelbel	1	12	KelbelH11 [281]
H. Khorshidian	1	28	ZarandiKS16 [550]
Kamran Kianfar	1	0	YounespourAKE19 [544]
Philip Kilby	1	16	KelarevaTK13 [280]
Dongyun Kim	1	0	KimCMLLP23 [285]
Emre Kirac	1	43	GedikKEK18 [193]
Zeynep Kiziltan	1	1	GalleguillosKSB19 [185]
Christian Klanke	1	3	KlankeBYE21 [286]
Jana Koehler	1	2	KoehlerBFFHPSSS21 [288]
Wolfgang Kohlenbrein	1	0	KovacsTKSG21 [300]
Sebastian Kosch	1	4	KoschB14 [292]
Benjamin Kovács	1	0	KovacsTKSG21 [300]
Matthias Krainz	1	0	GeibingerKKMMW21 [194]
Andreas Krall	1	14	ErtlK91 [166]
Dieter Kranzlmüller	1	0	JungblutK22 [270]
Dominik Kress	1	17	MullerMKP22 [375]
Per Kreuger	1	0	AronssonBK09 [22]

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Author	Nr Works	Nr Cites	Entries
Żywicki, Krzysztof	1	0	CzerniachowskaWZ23 [138]
Mustafa Küçük	1	0	KucukY19 [307]
Elif Kürklü	1	4	FrankK05 [180]
András Kéri	1	1	KeriK07 [282]
Michael L. Pinedo	1	0	KimCMLLP23 [285]
Hassan L. Hijazi	1	2	LimHTB16 [325]
Philip L. Henneman	1	9	ShinBBHO18 [457]
Yiqing L. Luo	1	0	LuoB22 [349]
Philippe Lacomme	1	4	BourreauGGLT22 [107]
Daniel Lafond	1	0	BoudreaultSLQ22 [106]
Asma Lahimer	1	3	LahimerLH11 [314]
Feipei Lai	1	2	HoYCLLC18 [249]
Jui-Fen Lai	1	2	HoYCLLC18 [249]
André Langevin	1	84	KhayatLR06 [283]
Christophe Lecoutre	1	20	GayHLS15 [189]
Myungho Lee	1	0	KimCMLLP23 [285]
Kangbok Lee	1	0	KimCMLLP23 [285]
Solange Lemai-Chenevier	1	0	PraletLJ15 [422]
Xingyang Li	1	0	LiFJZLL22 [322]
Siyi Li	1	0	LiFJZLL22 [322]
Xiaodong Li	1	0	abs-2211-14492 [472]
Guipeng Li	1	0	ZhouGL15 [561]
Hong Li	1	4	SunLYL10 [473]
Nan Li	1	4	SunLYL10 [473]
Yunbo Li	1	1	Madi-WambaLOBM17 [351]
Heyse Li	1	8	TranPZLDB18 [501]
Yi Li	1	0	LuoVLBM16 [348]
Wan-Chung Liao	1	2	HoYCLLC18 [249]
Ariel Liebman	1	6	He0GLW18 [231]
Olivier Liess	1	22	LiessM08 [323]
Andrew Lim	1	5	LimRX04 [324]
Tong Liu	1	0	LiuCGM17 [331]
Lingxuan Liu	1	12	QinWSLS21 [425]
Ke Liu	1	1	LiuLH19 [330]
Rengkui Liu	1	24	TangLWSK18 [479]
Yuechang Liu	1	0	LiuJ06 [332]
Giovanni Lo Bianco	1	0	ZhangBB22 [555]
Doina Logofatu	1	2	BadicaBIL19 [32]
Thomas Lorigeon	1	22	LorigeonBB02 [344]
Roy Luo	1	0	LuoVLBM16 [348]
Arnaud Lusson	1	0	HebrardALLCMR22 [232]
Chang Lv	1	100	MengZRZL20 [363]
Zhimin Lv	1	1	ZhangLS12 [558]
Sven Löffler	1	1	LiuLH19 [330]
J. M. van den Akker	1	2	AkkerDH07 [509]
Abdulrahman M. Abdulghani	1	0	AkramNHRSA23 [9]
O. M. Alade	1	0	abs-1902-01193 [10]
Shahrzad M. Pour	1	41	PourDERB18 [419]
Franco M. Novara	1	18	NovaraNH16 [390]
Rafael M. Gasca	1	7	ValleMGTO3 [508]
Jose M. Framinan	1	0	AbreuPNF23 [3]
Andy M. Ham	1	50	HamC16 [226]
Rolf Möhring	1	990	BruckerDMNP99 [111]
Jun Ma	1	1	MakMS10 [352]
Amy Mainville Cohn	1	1	BarlattCG08 [43]

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Author	Nr Works	Nr Cites	Entries
Kai-Ling Mak	1	1	MakMS10 [352]
V. Mani	1	12	SureshMOK06 [474]
Oscar Manzano	1	1	MurphyMB15 [377]
Kourosh Marjani Rasmussen	1	41	PourDERB18 [419]
Wallace, Mark G.	1	3	SchuttFSW15 [449]
Kim Marriott	1	10	FalaschiGMP97 [171]
Fae Martin	1	11	MartinPY01 [358]
Jacopo Mauro	1	0	LiuCGM17 [331]
Jim McInnes	1	15	MalikMB08 [356]
Zahra Mehdizadeh-Somarin	1	0	Mehdizadeh-Somarin23 [360]
Haci Mehmet Alakas	1	1	GurPAE23 [222]
Haci Mehmet Alakas	1	0	GurEA19 [566]
Itay Meiri	1	879	DechterMP91 [147]
Sebastian Meiswinkel	1	0	WinterMMW22 [537]
Gonzalo Mejía	1	0	YuraszeckMPV22 [548]
Hein Meling	1	6	MossigeGSMC17 [372]
Julien Menana	1	0	Menana11 [362]
Jean-Marc Menaud	1	1	Madi-WambaLOBM17 [351]
Leilei Meng	1	100	MengZRZL20 [363]
Luc Mercier	1	32	MercierH08 [364]
Alexandre Mercier-Aubin	1	2	Mercier-AubinGQ20 [365]
Vera Mersheeva	1	3	FriedrichFMRSS14 [181]
Nadine Meskens	1	36	WangMD15 [532]
Bernd Meyer	1	13	ThiruvadyBME09 [489]
Kyung Min Kim	1	0	HamPK21 [225]
Gautam Mitra	1	28	Darby-DowmanLMZ97 [140]
Elizabeth Montero	1	0	YuraszeckMCCR23 [549]
Kyungduk Moon	1	0	KimCMLLP23 [285]
Morten Mossige	1	6	MossigeGSMC17 [372]
Alix Munier Kordon	1	1	HanenKP21 [227]
Stanislav Murin	1	2	MurinR19 [376]
Nicola Muscettola	1	14	Muscettola02 [378]
David Müller	1	17	MullerMKP22 [375]
András Márkus	1	2	VanczaM01 [513]
Marc-André Ménard	1	1	BessiereHMQW14 [83]
T. N. Wong	1	6	ZhangYW21 [556]
Sophie N. Parragh	1	0	abs-1902-09244 [230]
S. N. Omkar	1	12	SureshMOK06 [474]
Bahman Naderi	1	0	NaderiBZ22 [380]
Nina Narodytska	1	0	ChuGNSW13 [128]
Shiva Nejati	1	3	AlesioNBG14 [156]
Nicholas Nethercote	1	344	NethercoteSBBDT07 [385]
Klaus Neumann	1	990	BruckerDMNP99 [111]
Franklin Nguewo	1	0	PopovicCGNC22 [418]
Gilberto Nishioka	1	0	SerraNM12 [453]
Thierry Noulamo	1	0	KameugneFND23 [276]
Jari Nurmi	1	2	QuSN06 [427]
A. O. Amusat	1	0	abs-1902-01193 [10]
Ceyda Oguz	1	5	EdisO11 [162]
Olga Ohrimenko	1	127	OhrimenkoSC09 [398]
Bilal Omar Akram	1	0	AkramNHRSA23 [9]
Mirza Omer Beg	1	1	BegB13 [66]
Anne-Cécile Orgerie	1	1	Madi-WambaLOBM17 [351]
Gregor Ottosson	1	317	HookerO03 [258]
Mohand Ou Idir Khemmoudj	1	8	KhemmoudjPB06 [284]

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Author	Nr Works	Nr Cites	Entries
Pierre Ouellet	1	12	OuelletQ13 [399]
Soukaina Oujana	1	1	OujanaAYB22 [402]
Asma Ouled Bedhief	1	0	Bedhief21 [65]
Irem Ozkarahan	1	46	TopalogluO11 [494]
Débora P. Ronconi	1	30	LunardiBLRV20 [346]
Edward P. K. Tsang	1	1	Tsang03 [507]
W. P. M. Nuijten	1	0	NuijtenA94 [395]
Meghana Padmanabhan	1	8	TranPZLDB18 [501]
Miquel Palahí	1	3	BofillEGPSV14 [93]
Catuscia Palamidessi	1	10	FalaschiGMP97 [171]
Pere Palà-Schönwälder	1	17	EscobetPQPRA19 [167]
Vaibhav Pandey	1	3	PandeyS21a [404]
Hoonseok Park	1	1	ParkUJR19 [408]
Myoung-Ju Park	1	0	HamPK21 [225]
Erica Pastore	1	0	AlfieriGPS23 [11]
Judea Pearl	1	879	DechterMP91 [147]
Theo Pedersen	1	1	HanenKP21 [227]
Bart Peintner	1	0	MoffittPP05 [366]
Jordi Pereira	1	0	YuraszcekMPV22 [548]
Laurent Perron	1	21	DannaP03 [139]
Stuckey, Peter J.	1	3	SchuttFSW15 [449]
Mehmet Pinarbasi	1	1	GurPAE23 [222]
Arthur Pinkney	1	11	MartinPY01 [358]
David Pisinger	1	2	SacramentoSP20 [436]
Maximilian Pohl	1	4	PohlAK22 [416]
Nicola Policella	1	8	OddiPCC03 [397]
Oliver Polo-Mejía	1	8	Polo-MejiaALB20 [417]
Paul Pop	1	0	BarzegaranZP20 [52]
Louis Popovic	1	0	PopovicCGNC22 [418]
Marc Porcheron	1	8	KhemmoudjPB06 [284]
Marc Pouly	1	2	KoehlerBFFHPSSS21 [288]
Guillaume Pováda	1	0	PovedaAA23 [420]
Matthias Prandtstetter	1	14	RendlPHPR12 [429]
Patrick Prosser	1	0	BeckPS03 [60]
Jakob Puchinger	1	14	RendlPHPR12 [429]
Jean-Francois Puget	1	6	Puget95 [424]
Vicenç Puig	1	17	EscobetPQPRA19 [167]
Kenneth Pulliam	1	2	KrogtLPHJ07 [511]
Kenny Qili Zhu	1	0	ZhuS02 [562]
Ming Qin	1	12	QinWSLS21 [425]
Tianbao Qin	1	27	QinDCS20 [426]
Yang Qu	1	2	QuSN06 [427]
Yuchen Quan	1	2	ShiYXQ22 [456]
Joseba Quevedo	1	17	EscobetPQPRA19 [167]
Alain Quilliot	1	0	ArtiguesHQT21 [24]
Dominik R. Bleidorn	1	3	KlankeBYE21 [286]
Aliza R. Heching	1	10	HechingH16 [235]
Gregg R. Rabideau	1	0	HebrardALLCMR22 [232]
Wichniarek, Radosław	1	0	CzerniachowskaWZ23 [138]
Sebastian Raggl	1	0	abs-1902-09244 [230]
Vinasétan Ratheil Houndji	1	5	HoundjiSWD14 [261]
Chandra Reddy	1	1	DavenportKRSH07 [142]
Yaping Ren	1	100	MengZRZL20 [363]
Andrea Rendl	1	14	RendlPHPR12 [429]
Hamid Reza Feyzmahdavian	1	2	Astrand0F21 [28]

Table 8: Co-Authors of Articles/Papers

Author	Nr Works	Nr Cites	Entries
Vahid Riahi	1	0	RiahiNS018 [430]
Diane Riopel	1	84	KhayatLR06 [283]
Gregory Rix	1	1	PesantRR15 [412]
Robert Rodosek	1	19	RodosekW98 [431]
Brian Rodrigues	1	5	LimRX04 [324]
Joaquín Rodríguez	1	117	Rodríguez07 [433]
Joaquin Rodriguez	1	0	RodriguezDG02 [432]
Jerome Rogerie	1	148	LaborieRSV18 [311]
Mohammad Rohaninejad	1	0	Mehdizadeh-Somarin23 [360]
Maximiliano Rojel	1	0	YuraszekMCCR23 [549]
Juli Romera	1	17	EscobetPQPRA19 [167]
Roberto Rossi	1	6	RossiTHP07 [434]
François Roubellat	1	84	ArtiguesR00 [25]
Stéphanie Roussel	1	0	SquillaciPR23 [470]
Didier Rozzonelli	1	0	JourdanFRD94 [269]
Ruiz, Rubén	1	2	NaderiRR23 [381]
Hana Rudová	1	2	MurinR19 [376]
Martin Ruskowski	1	1	ParkUJR19 [408]
Anna Ryabokon	1	3	FriedrichFMRSS14 [181]
William S. Havens	1	2	DilkinaDH05 [157]
Mohamed S. Gheith	1	1	AbohashimaEG21 [2]
Erlendur S. Thorsteinsson	1	67	Thorsteinsson01 [491]
David Sacramento	1	2	SacramentoSP20 [436]
Shahram Saeidi	1	1	AlizadehS20 [12]
Poonam Saini	1	3	PandeyS21a [404]
Fabio Salassa	1	0	AlfieriGPS23 [11]
Sophia Saller	1	2	KoehlerBFFHPSSS21 [288]
Anastasia Salyaeva	1	2	KoehlerBFFHPSSS21 [288]
Maria Sander	1	3	FriedrichFMRSS14 [181]
Eric Sanlaville	1	7	PoderBS04 [415]
Óscar Sapena	1	22	GarridoOS08 [188]
Özge Satir Akpunar	1	0	IsikYA23 [265]
Abdul Sattar	1	0	RiahiNS018 [430]
Peter Scheiblechner	1	2	KoehlerBFFHPSSS21 [288]
Klaus Schild	1	23	SchildW00 [441]
Thomas Schlechte	1	10	HeinzSSW12 [239]
Thorsten Schmidt	1	1	BenderWS21 [75]
Günter Schmidt	1	38	BlazewiczEP19 [87]
Philipp Schrott-Kostwein	1	0	KovacsTKSG21 [300]
Uwe Schwiigelshohn	1	4	LimtanyakulS12 [328]
Lena Secher Ejlersen	1	41	PourDERB18 [419]
Evgeny Selensky	1	0	BeckPS03 [60]
Thiago Serra	1	0	SerraNM12 [453]
Mei Sha	1	27	QinDCS20 [426]
Yufen Shao	1	48	GoelSHFS15 [206]
Ganquan Shi	1	2	ShiYXQ22 [456]
Zhongshun Shi	1	12	QinWSLS21 [425]
Leyuan Shi	1	12	QinWSLS21 [425]
Stuart Siegel	1	1	DavenportKRSH07 [142]
Maria Silvia Pini	1	1	GelainPRVW17 [199]
Vanessa Simard	1	0	BoudreaultSLQ22 [106]
Paweł Sitek	1	0	WikarekS19 [536]
M. Slusky	1	48	GoelSHFS15 [206]
Juha-Pekka Soininen	1	2	QuSN06 [427]
Xiaoqing Song	1	1	ZhangLS12 [558]



Table 8: Co-Authors of Articles/Papers

Author	Nr Works	Nr Cites	Entries
Shahabeddin Sotudian	1	55	ZarandiASC20 [551]
Francis Sourd	1	7	SourdN00 [469]
Helge Spieker	1	6	MossigeGSMC17 [372]
Arno Sprecher	1	840	KolischS97 [289]
Samuel Squillaci	1	0	SquillaciPR23 [470]
Andreas Starzacher	1	3	FriedrichFMRSST14 [181]
Wolfgang Steigerwald	1	0	GeitzGSSW22 [198]
Rüdiger Stephan	1	10	HeinzSSW12 [239]
Malgorzata Sterna	1	38	BlazewiczEP19 [87]
Robin Stöhr	1	0	GeitzGSSW22 [198]
Christian Stürck	1	0	HubnerGSV21 [262]
Kaile Su	1	0	RiahiNS018 [430]
Wei Su	1	1	MakMS10 [352]
Kemal Subulan	1	5	SubulanC22 [471]
Premysl Sucha	1	2	BenediktSMVH18 [78]
Quanxin Sun	1	24	TangLWSK18 [479]
Zheng Sun	1	4	SunLYL10 [473]
Suresh Sundaram	1	12	SureshMOK06 [474]
Pavel Surynek	1	2	BartakCS10 [47]
Jirí Svancara	1	0	SvancaraB22 [475]
Ria Szeredi	1	9	SzerediS16 [476]
Alina Sirbu	1	1	GalleguillosKSB19 [185]
Christos T. Maravelias	1	15	MaraveliasG04 [357]
Willian T. Lunardi	1	30	LunardiBLRV20 [346]
Guido Tack	1	344	NethercoteSBBDT07 [385]
Eric Taillard	1	1568	Taillard93 [477]
Siyu Tang	1	7	VlkHT21 [526]
Yuanjie Tang	1	24	TangLWSK18 [479]
Fabio Tardivo	1	0	TardivoDFMP23 [480]
Armagan Tarim	1	6	RossiTHP07 [434]
Ehsan Tarkesh Esfahani	1	0	YounespourAKE19 [544]
Reza Tavakkoli-Moghaddam	1	0	Fatemi-AnarakiMFN22 [175]
Nikolay Tchernev	1	4	BourreauGGLT22 [107]
Paolo Terenziani	1	1	BrusoniCLMMT96 [112]
Willian Tessaro Lunardi	1	0	Lunardi20 [347]
Stephan Teuschl	1	0	FrohnerTR19 [183]
Feydy, Thibaut	1	3	SchuttFSW15 [449]
Charles Thomas	1	6	CappartTSR18 [117]
Jordan Ticktin	1	0	HillTV21 [248]
Kevin Tierney	1	16	KelarevaTK13 [280]
Christian Timpe	1	42	Timpe02 [492]
Mary Tom	1	0	Tom19 [493]
Seyda Topaloglu	1	46	TopalogluO11 [494]
Miguel Toro	1	7	ValleMGTO3 [508]
Philippe Torres	1	26	TorresL00 [495]
Meriem Touat	1	0	TouatBT22 [496]
Touraivane	1	2	Touraivane95 [497]
Hélène Toussaint	1	0	ArtiguesHQT21 [24]
Mariem Trojet	1	11	TrojetHL11 [506]
Semra Tunali	1	31	OzturkTHO13 [403]
Paul Tyler	1	0	HebrardTW05 [234]
Jumyung Um	1	1	ParkUJR19 [408]
J. V. Moccellini	1	0	AbreuAPNM21 [143]
Behdin Vahedi-Nouri	1	0	Fatemi-AnarakiMFN22 [175]
Roshanaei, Vahid	1	2	NaderiRR23 [381]

Table 8: Co-Authors of Articles/Papers

Author	Nr Works	Nr Cites	Entries
Sasha Van Cauwelaert	1	2	CauwelaertDS20 [125]
Thierry Vidal	1	58	BidotVLB09 [84]
Karen Villaverde	1	0	VillaverdeP04 [525]
Mariona Vilà	1	0	YuraszeckMPV22 [548]
Rebekka Volk	1	0	HubnerGSV21 [262]
Holger Voos	1	30	LunardiBLRV20 [346]
Thomas W. M. Vossen	1	0	HillTV21 [248]
Kai Waelti	1	2	KoehlerBFFHPSSS21 [288]
Runsen Wang	1	12	QinWLS21 [425]
Futian Wang	1	24	TangLWSK18 [479]
Shouyang Wang	1	49	ZhangW18 [557]
Tao Wang	1	36	WangMD15 [532]
Ezra Wari	1	11	WariZ19 [533]
Jan Weglarz	1	38	BlazewiczEP19 [87]
Kong Wei Lye	1	0	LauLN08 [316]
Johan Wessén	1	2	WessenCS20 [535]
Jaroslav Wikarek	1	0	WikarekS19 [536]
Campbell Wilson	1	6	He0GLW18 [231]
Michael Winkler	1	10	HeinzSSW12 [239]
David Wittwer	1	1	BenderWS21 [75]
Jörg Würtz	1	23	SchildW00 [441]
Quanshi Xia	1	13	ChuX05 [129]
Hegen Xiong	1	18	FanXG21 [173]
Zhou Xu	1	5	LimRX04 [324]
Yang Xu	1	2	ShiYXQ22 [456]
Tanya Y. Tang	1	6	TangB20 [478]
El Yaakoubi Anass	1	0	FallahiAC20 [172]
Hong Yan	1	8	HookerY02 [260]
Moli Yang	1	1	YangSS19 [543]
Zhouwang Yang	1	2	ShiYXQ22 [456]
Jia-Sheng Yao	1	2	HoYCLLC18 [249]
Min Yao	1	4	SunLYL10 [473]
Seung Yeob Shin	1	9	ShinBBHO18 [457]
Vassilios Yfantis	1	3	KlankeBYE21 [286]
Maryam Younespour	1	0	YounespourAKE19 [544]
Chunxia Yu	1	6	ZhangYW21 [556]
Xinghuo Yu	1	11	MartinPY01 [358]
Oleg Yu. Gusikhin	1	1	BarlattCG08 [43]
Peter Yun Zhang	1	8	TranPZLDB18 [501]
Pinar Yunusoglu	1	20	YunusogluY22 [546]
Marco Zaffalon	1	28	Darby-DowmanLMZ97 [140]
Stéphane Zampelli	1	3	DerrienPZ14 [155]
Bahram Zarrin	1	0	BarzegaranZP20 [52]
Daniel Zawack	1	1054	AdamsBZ88 [6]
Mengjie Zhang	1	0	abs-2402-00459 [386]
Haotian Zhang	1	0	ZhangJZL22 [554]
Luping Zhang	1	6	ZhangYW21 [556]
Chaoyong Zhang	1	100	MengZRZL20 [363]
Biao Zhang	1	100	MengZRZL20 [363]
Sicheng Zhang	1	49	ZhangW18 [557]
Xujun Zhang	1	1	ZhangLS12 [558]
Lihui Zhang	1	0	ZouZ20 [565]
Jiachen Zhang	1	0	ZhangBB22 [555]
Guoqing Zhang	1	0	NaderiBZ22 [380]
Jinlian Zhou	1	0	ZhouGL15 [561]

Table 8: Co-Authors of Articles/Papers

Author	Nr Works	Nr Cites	Entries
Weihang Zhu	1	11	WariZ19 [533]
Pawel Zielinski	1	13	FortinZDF05 [179]
Jürgen Zimmermann	1	25	KreterSSZ18 [303]
Xin Zou	1	0	ZouZ20 [565]
Mathijs de Weerd	1	1	BogaerdW19 [510]
Bruno de Athayde Prata	1	0	AbreuAPNM21 [143]
Roman van der Krogt	1	2	KrogtLPHJ07 [511]
Pim van den Bogaerd	1	1	BogaerdW19 [510]
Stefano Di Alesio	1	3	AlesioNBG14 [156]
Ulas Özen	1	8	TerekhovDOB12 [485]
Selin Özpeynirci	1	31	GokgurHO18 [207]
Cemalettin Öztürk	1	31	OzturkTHO13 [403]
Nahum Álvarez	1	0	PovedaAA23 [420]
Seán Óg Murphy	1	1	MurphyMB15 [377]
Gizem Çakir	1	5	SubulanC22 [471]

## 5 Problem Classification

Table 9: 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

## 6 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.

## 6.1 Concept Type Concepts

Table 10: Works for Concepts of Type Concepts

Type	Keyword	High	Medium	Low
Concepts	Allen's algebra			DechterMP91 [147]
Concepts	BOM	SubulanC22 [471]		abs-1902-01193 [10]
Concepts	activity	TardivoDFMP23 [480], AalianPG23 [1], PovedaAA23 [420], TouatBT22 [496], CampeauG22 [115], SubulanC22 [471], SvancaraB22 [475], BenderWS21 [75], KlankeBYE21 [286], HubnerGSV21 [262], Astrand21 [27], Godet21a [204], BadicaBI20 [31], ZouZ20 [565], ZarandiASC20 [551], CauwelaertDS20 [125], Polo-MejiaALB20 [417], AstrandJZ20 [30], BadicaBIL19 [32], abs-1902-09244 [230], abs-1911-04766 [195], GeibingerMM19 [196], MurinR19 [376], YounespourAKE19 [544], LaborieRSV18 [311], GokgurHO18 [207], BorghesiBLMB18 [104], TangLWSK18 [479], MusliuSS18 [379]... (Total: 143)	YuraszeckMCCR23 [549], Bit-Monnot23 [86], BoudreaultSLQ22 [106], PopovicCGNC22 [418], LunardiBLRV20 [346], Lunardi20 [347], YangSS19 [543], EscobetPQPRA19 [167], Novas19 [391], ShinBBHO18 [457], SchuttS16 [450], TranWDRFOVB16 [505], BoothNB16 [103], VilimLS15 [524], Derrien15 [153], GoelSHFS15 [206], DoulabiRP14 [160], LombardiM13 [341], BonfiettiM12 [101], ChapadosJR11 [127], ZibranR11 [563], SchuttFSW09 [445], PoderB08 [414], GarridoOS08 [188], KrogtLPHJ07 [511], Simonis07 [466], KhayatLR06 [283], Geske05 [200], MoffittPP05 [366]... (Total: 36)	PrataAN23 [423], CzerniachowskaWZ23 [138], ShaikhK23 [454], abs-2312-13682 [411], SquillaciPR23 [470], abs-2305-19888 [243], PerezGSL23 [410], HeinzNVH22 [242], PohlAK22 [416], abs-2211-14492 [472], HebrardALLCMR22 [232], OuelletQ22 [401], MullerMKP22 [375], YunusogluY22 [546], ZhangYW21 [556], HillTV21 [248], GeibingerMM21 [197], PandeyS21a [404], Astrand0F21 [28], QinDCS20 [426], Mercier-AubinGQ20 [365], SacramentoSP20 [436], NishikawaSTT19 [389], abs-1902-01193 [10], Tom19 [493], GalleguillosKSB19 [185], CauwelaertLS18 [124], NishikawaSTT18 [387], NishikawaSTT18a [388]... (Total: 78)
Concepts	batch process	LacknerMMWW23 [313], LacknerMMWW21 [312], QinWSLS21 [425], ZarandiASC20 [551], NovaraNH16 [390], KoschB14 [292], Malapert11 [353]	TangB20 [478], NovasH10 [392], Vilim02 [515], SimonisC95 [468]	PrataAN23 [423], IsikYA23 [265], YuraszeckMCCR23 [549], YunusogluY22 [546], MullerMKP22 [375], SvancaraB22 [475], OujanaAYB22 [402], LuoB22 [349], LiFJZLL22 [322], ColT22 [136], AbreuN22 [144], GeitzGSSW22 [198], FanXG21 [173], ZhangYW21 [556], KlankeBYE21 [286], Lunardi20 [347], CauwelaertDS20 [125], MengZRZL20 [363], EscobetPQPRA19 [167], Ham18 [224], FahimiOQ18 [170], LaborieRSV18 [311], CauwelaertDMS16 [123], Dejemeppe16 [148], GrimesH10 [212], Simonis07 [466], VilimBC05 [523], ArtiguesBF04 [23], Vilim04 [517]
Concepts	bill of material			Simonis07 [466]
Concepts	buffer-capacity		SureshMOK06 [474]	LiFJZLL22 [322], OujanaAYB22 [402], RiahiNS018 [430], BonfiettiLBM14 [98], NovasH14 [394], TerekhovTDB14 [486], ZeballosH05 [552]
Concepts	cmax	JuvinHHL23 [271], YuraszeckMCCR23 [549], AbreuNP23 [145], YuraszeckMC23 [547], KameugneFND23 [276], NaderiRRR23 [381], abs-2305-19888 [243], IsikYA23 [265], YunusogluY22 [546], FetgoD22 [176], ZhangBB22 [555], AbreuN22 [144], abs-2211-14492 [472], Godet21a [204], QinWSLS21 [425], AbohashimaEG21 [2], ArmstrongGOS21 [20], Polo-MejiaALB20 [417], QinDCS20 [426], MejiaY20 [361], MengZRZL20 [363], GodetLHS20 [205], Lunardi20 [347], WikarekS19 [536], YounespourAKE19 [544], MalapertN19 [354], Ham18 [224], GedikKEK18 [193], KameugneFGOQ18 [275]... (Total: 46)	Mehdizadeh-Somarin23 [360], BoudreaultSLQ22 [106], MullerMKP22 [375], ArmstrongGOS22 [21], HamPK21 [225], AbreuAPNM21 [143], ParkUJR19 [408], Novas19 [391], ArbaouiY18 [19], WangMD15 [532], ZhouGL15 [561], ZhangLS12 [558], BeckFW11 [57], BartakSR10 [49], MoffittPP05 [366], Muscettola02 [378], ArtiguesR00 [25], SourdN00 [469], BlazewiczLK83 [88]	JuvinHL23 [272], Teppan22 [484], ZhangYW21 [556], HanenKP21 [227], HubnerGSV21 [262], ZarandiASC20 [551], GokgurHO18 [207], LiuCGM17 [331], BofilCSV17 [92], SialaAH15 [460], KoschB14 [292], SchuttFSW13 [448], GuSW12 [221], abs-1009-0347 [446], WatsonB08 [534], LiessM08 [323], AkkerDH07 [509], KeriK07 [282], KhayatLR06 [283], Laborie03 [308], BaptisteP00 [40], FocacciLN00 [177]

Table 10: Works for Concepts of Type Concepts

Type	Keyword	High	Medium	Low
Concepts	completion-time	PrataAN23 [423], JuvinHL23 [272], AbreuNP23 [145], Mehdizadeh-Somarin23 [360], AlfieriGPS23 [11], NaderiRR23 [381], KameugneFND23 [276], YuraszckMPV22 [548], AbreuN22 [144], YunusogluY22 [546], SubulanC22 [471], OuelletQ22 [401], NaderiBZ22 [380], FetgoD22 [176], KlankeBYE21 [286], Astrand21 [27], Bedhief21 [65], ArmstrongGOS21 [20], MejiaY20 [361], LunardiBLRV20 [346], QinDCS20 [426], CauwelaertDS20 [125], ZarandiASC20 [551], Lunardi20 [347], YounespourAKE19 [544], FahimiOQ18 [170], RiahiNS018 [430], ZhangW18 [557], ArbaouiY18 [19]... (Total: 63)	CzerniachowskaWZ23 [138], abs-2305-19888 [243], MullerMKP22 [375], ColT22 [136], Teppan22 [484], ZhangBB22 [555], TouatBT22 [496], OujanaAYB22 [402], HeinzNVH22 [242], abs-2211-14492 [472], LiFJZLL22 [322], AbreuAPNM21 [143], HanenKP21 [227], FanXG21 [173], GeibingerMM21 [197], QinWLS21 [425], NattafM20 [384], Mercier-AubinGQ20 [365], Polo-MejiaALB20 [417], YangSS19 [543], abs-1902-09244 [230], BogaerdTW19 [510], abs-1911-04766 [195], MalapertN19 [354], GeibingerMM19 [196], ParkUJR19 [408], Ham18 [224], OuelletQ18 [400], KreterSS17 [302]... (Total: 57)	abs-2402-00459 [386], TasselGS23 [481], MontemanniD23a [370], AkramNHRSa23 [9], IsikYA23 [265], abs-2306-05747 [482], PerezGSL23 [410], JuvinHHL23 [271], FarsiTM22 [174], PopovicCGNC22 [418], PohlAK22 [416], GeitzGSSW22 [198], CampeauG22 [115], ZhangJZL22 [554], WinterMMW22 [537], ArmstrongGOS22 [21], HubnerGSV21 [262], VlkHT21 [526], Godet21a [204], PandeyS21a [404], HamPK21 [225], WessenCS20 [535], BadicaBI20 [31], MengZRZL20 [363], MokhtarzadehTNF20 [367], AntuoriHHEN20 [16], GodetLHS20 [205], SacramentoSP20 [436], ZouZ20 [565]... (Total: 91)
Concepts	continuous-process			FarsiTM22 [174], Dejemeppe16 [148], GaySS14 [192], Bartak02 [45], SimonisC95 [468], Benders62 [76]
Concepts	distributed	PrataAN23 [423], NaderiRR23 [381], ZarandiASC20 [551], MengZRZL20 [363], He0GLW18 [231], TranPZLDB18 [501], BridiLBBM16 [110], BridiBLMB16 [109], ZhouGL15 [561], TerekhovTDB14 [486], BonfiettiLM14 [100], BartakS11 [48], BartakSR10 [49], RuggieroBBMA09 [435], HoeveGSL07 [512], RossiTHP07 [434], BeckW07 [64], SureshMOK06 [474], GomesHS06 [211], Geske05 [200], BeckW04 [62], Beck99 [53], LammaMM97 [315]	IsikYA23 [265], ShaikhK23 [454], AbreuNP23 [145], OujanaAYB22 [402], JungblutK22 [270], AbreuN22 [144], YuraszckMPV22 [548], Godet21a [204], AbreuAPNM21 [143], MokhtarzadehTNF20 [367], ZouZ20 [565], NishikawaSTT19 [389], BorghesiBLMB18 [104], ZhangW18 [557], ZarandiKS16 [550], AlesioNBG14 [156], TranTDB13 [502], BegB13 [66], HermenierDL11 [247], LopesCSM10 [342], Lombardi10 [333], SunLYL10 [473], BeniniBGM06 [79], ZhuS02 [562], SchildW00 [441], Wallace96 [528]	YuraszckMC23 [547], KimCMLLP23 [285], Bit-Monnot23 [86], AlfieriGPS23 [11], MontemanniD23 [371], abs-2305-19888 [243], SquillaciPR23 [470], GurPAE23 [222], AkramNHRSa23 [9], abs-2211-14492 [472], NaderiBZ22 [380], ZhangBB22 [555], HeinzNVH22 [242], TouatBT22 [496], BoudreaultSLQ22 [106], Teppan22 [484], ColT22 [136], LiFJZLL22 [322], FarsiTM22 [174], WinterMMW22 [537], HamPK21 [225], Astrand21 [27], GeibingerKKMMW21 [194], PandeyS21a [404], FanXG21 [173], BenderWS21 [75], Lemos21 [318], KovacsTKSG21 [300], ZhangYW21 [556]... (Total: 115)
Concepts	due-date	OujanaAYB22 [402], ColT22 [136], NaderiBZ22 [380], FanXG21 [173], AntuoriHHEN21 [17], Lunardi20 [347], AntuoriHHEN20 [16], ZarandiASC20 [551], TangB20 [478], Mercier-AubinGQ20 [365], abs-1902-09244 [230], Novas19 [391], abs-1911-04766 [195], GoldwaserS18 [209], Tesch18 [488], GoldwaserS17 [208], Dejemeppe16 [148], NovaraNH16 [390], BajestaniB15 [35], DoulabiRP14 [160], KoschB14 [292], HoundjiSWD14 [261], BajestaniB13 [34], LimtanyakulS12 [328], KelbelH11 [281], BajestaniB11 [33], NovasH10 [392], ZeballosQH10 [553], BartakSR10 [49]... (Total: 42)	PrataAN23 [423], LacknerMMWW23 [313], IsikYA23 [265], NaderiRR23 [381], YunusogluY22 [546], abs-2211-14492 [472], WinterMMW22 [537], Godet21a [204], LacknerMMWW21 [312], GeibingerMM21 [197], GroleazNS20a [217], GeibingerMM19 [196], FahimiOQ18 [170], ZarandiKS16 [550], GrimesIOS14 [216], HeinzSB13 [241], GrimesH11 [213], Malapert11 [353], LombardiM10a [337], MakMS10 [352], Lombardi10 [333], SchuttW10 [451], Davenport10 [141], ThiruvadyBME09 [489], abs-0907-0939 [413], MouraSCL08a [373], Limtanyakul07 [327], SadykovW06 [438], Hooker05a [253]... (Total: 38)	abs-2402-00459 [386], YuraszckMC23 [547], KimCMLLP23 [285], JuvinHHL23 [271], ZhangJZL22 [554], SubulanC22 [471], TouatBT22 [496], YuraszckMPV22 [548], MullerMKP22 [375], Astrand21 [27], KlankeBYE21 [286], HubnerGSV21 [262], Bedhief21 [65], KovacsTKSG21 [300], VlkHT21 [526], HanenKP21 [227], LunardiBLRV20 [346], MejiaY20 [361], Polo-MejiaALB20 [417], GroleazNS20 [218], AstrandJZ20 [30], ParkUJR19 [408], EscobetPQPRA19 [167], GokgurHO18 [207], GedikKEK18 [193], LaborieRSV18 [311], Laborie18a [310], Ham18 [224], Pralet17 [421]... (Total: 74)
Concepts	earliness	PrataAN23 [423], KimCMLLP23 [285], TouatBT22 [496], PohlAK22 [416], ZarandiASC20 [551], abs-1902-09244 [230], LaborieRSV18 [311], Dejemeppe16 [148], ZarandiKS16 [550], LombardiM12 [340], KelbelH11 [281], GrimesH11 [213], Laborie09 [309], MonetteDH09 [369], KeriK07 [282], DannaP03 [139], BeckR03 [61]	FarsiTM22 [174], MengZRZL20 [363], KovacsB11 [295], Davenport10 [141]	abs-2402-00459 [386], NaderiRR23 [381], AbreuNP23 [145], IsikYA23 [265], AlfieriGPS23 [11], LacknerMMWW23 [313], YunusogluY22 [546], FanXG21 [173], LacknerMMWW21 [312], Polo-MejiaALB20 [417], Mercier-AubinGQ20 [365], ColT19 [135], GokgurHO18 [207], ZhangW18 [557], NovaraNH16 [390], Siala15a [459], VilimLS15 [524], LimBTBB15 [326], SialaAH15 [460], BajestaniB13 [34], HeinzB12 [237], EdisO11 [162], KovacsK11 [297], ZeballosQH10 [553], NovasH10 [392], KovacsB07 [293], KovacsV06 [299], GodardLN05 [203], QuirogaZH05 [428]... (Total: 34)

Table 10: Works for Concepts of Type Concepts

Type	Keyword	High	Medium	Low
Concepts	flow-shop	PrataAN23 [423], CzerniachowskaWZ23 [138], NaderiRR23 [381], AlfieriGPS23 [11], IsikYA23 [265], JuvinHL23 [272], AbreuNP23 [145], ArmstrongGOS22 [21], OujanaAYB22 [402], ColT22 [136], ZhangJZL22 [554], AbreuN22 [144], LiFJZLL22 [322], Astrand21 [27], QinWSLS21 [425], ArmstrongGOS21 [20], Bedhief21 [65], AbreuAPNM21 [143], ZarandiASC20 [551], MengZRZL20 [363], Lunardi20 [347], AstrandJJ20 [30], Novas19 [391], ParkUJR19 [408], ZhangW18 [557], ZhouGL15 [561], BajestaniB15 [35], TerekhovTDB14 [486], Malapert11 [353]... (Total: 32)	Mehdizadeh-Somarin23 [360], NaderiBZ22 [380], YuraszeckMPV22 [548], Godet21a [204], KoehlerBFFHPSSS21 [288], FanXG21 [173], TangB20 [478], abs-1902-09244 [230], LaborieRSV18 [311], Dejemeppe16 [148], GrimesH11 [213], KovacsB11 [295], BartakSR10 [49], AggounB93 [7], BlazewiczLK83 [88]	TasselGS23 [481], AalianPG23 [1], YuraszeckMCCR23 [549], abs-2305-19888 [243], JuvinHHL23 [271], abs-2306-05747 [482], abs-2211-14492 [472], TouatBT22 [496], HeinzNVH22 [242], Teppan22 [484], LacknerMMWW21 [312], HillTV21 [248], abs-2102-08778 [134], KovacsTKSG21 [300], PandeyS21a [404], HamPK21 [225], WallaceY20 [529], SacramentoSP20 [436], LunardiBLRV20 [346], WikarekS19 [536], RiahiNS018 [430], HookerH18 [259], GokgurHO18 [207], GoldwaserS18 [209], ZarandiKS16 [550], TranTDB13 [502], OzturkTHO13 [403], LombardiM12 [340], BillautHL12 [85]... (Total: 51)
Concepts	flow-time	YuraszeckMPV22 [548], FanXG21 [173], ZarandiASC20 [551], NattafM20 [384], MalapertN19 [354], ZhangW18 [557], TerekhovTDB14 [486], TranTDB13 [502]	PrataAN23 [423], AlfieriGPS23 [11], YunusogluY22 [546], Malapert11 [353], BeckW07 [64]	TasselGS23 [481], abs-2306-05747 [482], YuraszeckMC23 [547], YuraszeckMCCR23 [549], LiFJZLL22 [322], AbreuN22 [144], KoehlerBFFHPSSS21 [288], MengZRZL20 [363], ParkUJR19 [408], Novas19 [391], BajestaniB15 [35], KovacsB11 [295], EdisO11 [162], QuirogaZH05 [428], BeckPS03 [60], BeckR03 [61]
Concepts	inventory	SubulanC22 [471], Astrand21 [27], GilesH16 [201], GoelSHFS15 [206], SerraNM12 [453], LopesCSM10 [342], RossiTHP07 [434], Timpe02 [492], Beck99 [53], BeckDF97 [56]	ZarandiASC20 [551], Novas19 [391], BajestaniB13 [34], MakMS10 [352], LauLN08 [316], MouraSCL08a [373], DavenportKRS07 [142], GarganiR07 [186], BeckF00 [59], Simonis99 [465], Simonis95a [463]	PrataAN23 [423], PerezGSL23 [410], abs-2312-13682 [411], AlfieriGPS23 [11], GurPAE23 [222], AbreuN22 [144], PohlAK22 [416], YunusogluY22 [546], HubnerGSV21 [262], KovacsTKSG21 [300], GroleazNS20a [217], GroleazNS20 [218], abs-1902-09244 [230], YounespourAKE19 [544], WikarekS19 [536], Ham18 [224], LaborieRSV18 [311], ShinBBHO18 [457], SchuttS16 [450], SimoninAHL15 [462], TerekhovTDB14 [486], HoundjiSWD14 [261], KelarevaTK13 [280], HeinzSSW12 [239], LombardiM12 [340], KelbelH11 [281], BajestaniB11 [33], Malapert11 [353], Lombardi10 [333]... (Total: 38)
Concepts	job	PrataAN23 [423], abs-2402-00459 [386], KimCMLLP23 [285], JuvinHHL23 [271], AlfieriGPS23 [11], YuraszeckMC23 [547], AbreuNP23 [145], IsikYA23 [265], WangB23 [531], LacknerMMWW23 [313], Bit-Monnot23 [86], CzerniachowskaWZ23 [138], abs-2306-05747 [482], NaderiRR23 [381], JuvinHL23 [272], TasselGS23 [481], Mehdizadeh-Somarin23 [360], YuraszeckMCCR23 [549], LiFJZLL22 [322], TouatBT22 [496], YunusogluY22 [546], GeitzGSSW22 [198], MullerMKP22 [375], WinterMMW22 [537], ArmstrongGOS22 [21], OujanaAYB22 [402], AbreuN22 [144], ZhangBB22 [555], ZhangJZL22 [554]... (Total: 214)	EfthymiouY23 [163], ShaikhK23 [454], abs-2305-19888 [243], HeinzNVH22 [242], BourreauGGLT22 [107], LuoB22 [349], HanenKP21 [227], Lemos21 [318], Mercier-AubinGQ20 [365], MokhtarzadehTNF20 [367], Tom19 [493], EscobetPQPRA19 [167], GurEA19 [566], PourDERB18 [419], CappartS17 [116], NattafAL17 [383], ZarandiKS16 [550], Madi-WambaB16 [350], TranWDRFOVB16 [505], LetortCB15 [321], Derrien15 [153], ZhouGL15 [561], PraletLJ15 [422], BonfiettiLBM14 [98], BonfiettiLM14 [100], ThiruvadyWGS14 [490], LombardiM12 [340], KovacsK11 [297], Rodriguez07 [433]... (Total: 44)	PovedaAA23 [420], CampeauG22 [115], PohlAK22 [416], KlankeBYE21 [286], HubnerGSV21 [262], AntuoriHHEN21 [17], BenderWS21 [75], WessenCS20 [535], AntuoriHHEN20 [16], QinDCS20 [426], Polo-MejiaALB20 [417], FrimodigS19 [182], CauwelaertLS18 [124], TangLWSK18 [479], HoYCLLC18 [249], BaptisteB18 [37], ShinBBHO18 [457], TranVNB17 [503], HechingH16 [235], NovaraNH16 [390], BurtLPS15 [113], WangMD15 [532], LimBTBB15 [326], BartakV15 [50], LombardiBM15 [334], MelgarejoLS15 [8], BessiereHMQW14 [83], DerrienPZ14 [155], KameugneFSN14 [278]... (Total: 75)



Table 10: Works for Concepts of Type Concepts

Type	Keyword	High	Medium	Low
Concepts	job-shop	abs-2402-00459 [386], PrataAN23 [423], abs-2306-05747 [482], Mehdizadeh-Somarin23 [360], KimCMLLP23 [285], CzerniachowskaWZ23 [138], JuvinHHL23 [271], Bit-Monnot23 [86], NaderiRR23 [381], AbreuNP23 [145], YuraszeckMCCR23 [549], TasselGS23 [481], MullerMKP22 [375], Teppan22 [484], OujanaAYB22 [402], ZhangBB22 [555], abs-2211-14492 [472], YuraszeckMPV22 [548], LiFJZLL22 [322], GeitzGSSW22 [198], ColT22 [136], Astrand21 [27], HamPK21 [225], KovacsTKSG21 [300], abs-2102-08778 [134], AbreuAPNM21 [143], FanXG21 [173], ZhangYW21 [556], MengZRZL20 [363]... (Total: 104)	IsikYA23 [265], EfthymiouY23 [163], AlfieriGPS23 [11], NaderiBZ22 [380], TouatBT22 [496], YunusogluY22 [546], AbreuN22 [144], LuoB22 [349], QinWSLS21 [425], ArmstrongGOS21 [20], AstrandOF21 [28], KoehlerBFFHPSSS21 [288], Godet21a [204], GroleazNS20 [218], MejiaY20 [361], SacramentoSP20 [436], EscobetPQPRA19 [167], WikarekS19 [536], GokgurHO18 [207], MossigeGSMC17 [372], CappartS17 [116], Derrien15 [153], BonfiettiLM14 [100], GaySS14 [192], BonfiettiLBM14 [98], BajestaniB13 [34], LombardiM12 [340], Lombardi10 [333], AronssonBK09 [22]... (Total: 43)	ShaikhK23 [454], YuraszeckMC23 [547], PovedaAA23 [420], LacknerMMWW23 [313], JuvinHL23 [272], HanenKP21 [227], Lemos21 [318], KlankeBYE21 [286], AntuoriHHEN21 [17], BenediktMH20 [77], WessenCS20 [535], AntuoriHHEN20 [16], Mercier-AubinGQ20 [365], WallaceY20 [529], Tom19 [493], GurEA19 [566], FrimodigS19 [182], BogaerdtW19 [510], abs-1902-09244 [230], ParkUJR19 [408], BenediktSMVH18 [78], Ham18 [224], CauwelaertLS18 [124], TranWDRFOVB16 [505], TranDRFWOVB16 [500], LuoVLBM16 [348], ZarandiKS16 [550], PraletLJ15 [422], LimBTBB15 [326]... (Total: 81)
Concepts	lateness	FahimiOQ18 [170], Dejemeppe16 [148], KoschB14 [292], Malapert11 [353], BartakSR10 [49], Geske05 [200], ArtiguesR00 [25]	PrataAN23 [423], PohlAK22 [416], ZarandiASC20 [551], ZhangW18 [557], AkkerDH07 [509], Sadykov04 [437], BlazewiczLK83 [88]	LacknerMMWW23 [313], YunusogluY22 [546], NaderiBZ22 [380], ZhangBB22 [555], GeitzGSSW22 [198], ColT22 [136], KoehlerBFFHPSSS21 [288], HanenKP21 [227], QinWSLS21 [425], LacknerMMWW21 [312], Godet21a [204], Lunardi20 [347], Novas19 [391], ParkUJR19 [408], Tesch18 [488], BartakV15 [50], EdisO11 [162], NovasH10 [392], SadykovW06 [438], Bartak02 [45], CarlierP90 [120], WangB23 [531], TardivoDFMP23 [480], KameugneFND23 [276], FetgoD22 [176], GeibingerMM21 [197], Godet21a [204], HillTV21 [248], GodetLHS20 [205], WallaceY20 [529], Mercier-AubinGQ20 [365], YangSS19 [543], BaptisteB18 [37], GoldwaserS18 [209], YoungFS17 [545], BofillCSV17 [92], GoldwaserS17 [208], PesantRR15 [412], GuSW12 [221], LombardiM12 [340], GrimesH11 [213], Lombardi10 [333], SchuttW10 [451]
Concepts	lazy clause generation	KreterSS17 [302], Siala15a [459], KreterSS15 [301], SchuttFS13 [444], SchuttFSW13 [448], KelarevaTK13 [280], SchuttFS13a [443], SchuttFSW11 [447], abs-1009-0347 [446], OhrimenkoSC09 [398], SchuttFSW09 [445]	PovedaAA23 [420], Bit-Monnot23 [86], BoudreaultSLQ22 [106], GeitzGSSW22 [198], OuelletQ22 [401], FahimiOQ18 [170], SchuttS16 [450], SzerediS16 [476], SialaAH15 [460], BofillEGPSV14 [93], GuSS13 [220], SchuttCSW12 [442]	WangB23 [531], TardivoDFMP23 [480], KameugneFND23 [276], FetgoD22 [176], GeibingerMM21 [197], Godet21a [204], HillTV21 [248], GodetLHS20 [205], WallaceY20 [529], Mercier-AubinGQ20 [365], YangSS19 [543], BaptisteB18 [37], GoldwaserS18 [209], YoungFS17 [545], BofillCSV17 [92], GoldwaserS17 [208], PesantRR15 [412], GuSW12 [221], LombardiM12 [340], GrimesH11 [213], Lombardi10 [333], SchuttW10 [451]
Concepts	machine	abs-2402-00459 [386], PrataAN23 [423], IsikYA23 [265], CzerniachowskaWZ23 [138], YuraszeckMCCR23 [549], AbreuNP23 [145], NaderiRR23 [381], TasselGS23 [481], Mehdizadeh-Somarin23 [360], AalianPG23 [1], JuvinHL23 [272], PerezGSL23 [410], JuvinHHL23 [271], abs-2312-13682 [411], LacknerMMWW23 [313], EfthymiouY23 [163], abs-2306-05747 [482], AlfieriGPS23 [11], YuraszeckMC23 [547], abs-2305-19888 [243], KimCMLLP23 [285], LiFJZLL22 [322], ArmstrongGOS22 [21], JungblutK22 [270], abs-2211-14492 [472], GeitzGSSW22 [198], YuraszeckMPV22 [548], ZhangJZL22 [554], AbreuN22 [144]... (Total: 201)	Bit-Monnot23 [86], AkramNHRSA23 [9], GurPAE23 [222], LuoB22 [349], HillTV21 [248], KlankeBYE21 [286], Lemos21 [318], AbohashimaEG21 [2], AntuoriHHEN20 [16], Polo-MejiaALB20 [417], BehrensLM19 [67], GoldwaserS18 [209], BaptisteB18 [37], HeOGLW18 [231], Ham18 [224], ShinBBHO18 [457], MusliuSS18 [379], FahimiOQ18 [170], GoldwaserS17 [208], KreterSS17 [302], CohenHB17 [133], Pralet17 [421], BridiLBBM16 [110], SchuttS16 [450], CauwelaertDMS16 [123], ZarandiKS16 [550], TranWDRFOVB16 [505], SialaAH15 [460], DejemeppeCS15 [149]... (Total: 59)	KameugneFND23 [276], MontemanniD23 [371], ShaikhK23 [454], BoudreaultSLQ22 [106], PopovicCGNC22 [418], SubulanC22 [471], PohlAK22 [416], GeibingerMM21 [197], WallaceY20 [529], WangB20 [530], BarzegaranZP20 [52], Mercier-AubinGQ20 [365], YangSS19 [543], BadicaBIL19 [32], NishikawaSTT19 [389], Tom19 [493], YounespourAKE19 [544], HoYCLLC18 [249], PourDERB18 [419], Laborie18a [310], CauwelaertLS18 [124], BofillCSV17 [92], CappartS17 [116], TranVNB17 [503], TranVNB17a [504], KletzanderM17 [287], YoungFS17 [545], LiuCGM17 [331], LimHTB16 [325]... (Total: 109)
Concepts	make to order			OujanaAYB22 [402], DavenportKRSH07 [142], Simonis07 [466]
Concepts	make to stock			

Table 10: Works for Concepts of Type Concepts

Type	Keyword	High	Medium	Low
Concepts	make-span	PrataAN23 [423], JuvinHL23 [272], AbreuNP23 [145], EfthymiouY23 [163], PovedaAA23 [420], AlfieriGPS23 [11], abs-2305-19888 [243], NaderiRR23 [381], TasselGS23 [481], Bit-Monnot23 [86], abs-2306-05747 [482], AalianPG23 [1], CzerniachowskaWZ23 [138], LacknerMMWW23 [313], JuvinHHL23 [271], YuraszeckMC23 [547], IsikYA23 [265], Mehdizadeh-Somarin23 [360], HeinzNVH22 [242], AbreuN22 [144], GeitzGSSW22 [198], BoudreaultSLQ22 [106], YunusogluY22 [546], SubulanC22 [471], ArmstrongGOS22 [21], ZhangBB22 [555], TouatBT22 [496], ColT22 [136], FarsiTM22 [174]... (Total: 154)	YuraszeckMCCR23 [549], abs-2312-13682 [411], PerezGSL23 [410], KameugneFND23 [276], MullerMKP22 [375], SvancaraB22 [475], OujanaAYB22 [402], ZhangJZL22 [554], abs-2211-14492 [472], YuraszeckMPV22 [548], LiFJZLL22 [322], PandeyS21a [404], FanXG21 [173], QinDCS20 [426], AstrandJZ18 [29], KreterSS17 [302], YoungFS17 [545], BonfiettiZLM16 [102], GingrasQ16 [202], SialaAH15 [460], DejemeppeCS15 [149], GayHLS15 [189], BajestaniB15 [35], BonfiettiLBM14 [98], ThiruvadyWGS14 [490], KameugneFSN14 [278], GuSS13 [220], LombardiM12 [340], BillautHL12 [85]... (Total: 46)	KimCMLLP23 [285], TardivoDFMP23 [480], Teppan22 [484], PopovicCGNC22 [418], CampeauG22 [115], JungblutK22 [270], FetgoD22 [176], NaderiBZ22 [380], HanenKP21 [227], KoehlerBFFHPSSS21 [288], HubnerGSV21 [262], Mercier-AubinGQ20 [365], TangB20 [478], CauwelaertDS20 [125], NattafM20 [384], SacramentoSP20 [436], NishikawaSTT19 [389], MurinR19 [376], abs-1911-04766 [195], BadicaBIL19 [32], Tom19 [493], GeibingerMM19 [196], NishikawaSTT18 [387], BorghesiBLMB18 [104], ArbaouiY18 [19], Ham18 [224], NishikawaSTT18a [388], OuelletQ18 [400], TranPZLDB18 [501]... (Total: 89)
Concepts	manpower	NovaraNH16 [390]	LaborieRSV18 [311]	BourreauGGLT22 [107], BadicaBI20 [31], MokhtarzadehTNF20 [367], WikarekS19 [536], BaptisteB18 [37], MusliuSS18 [379], SchuttS16 [450], HechingH16 [235], GayHS15a [191], GaySS14 [192], LombardiM12 [340], Menana11 [362], Vilim11 [521], NovasH10 [392], Simonis99 [465], NuijtenP98 [396], SimonisC95 [468], Simonis95a [463], Puget95 [424]
Concepts	multi-agent	SvancaraB22 [475], ZarandiASC20 [551], BehrensLM19 [67], He0GLW18 [231], HoeveGSL07 [512]	Lemos21 [318], MokhtarzadehTNF20 [367], abs-1901-07914 [68], TranVNB17 [503], LimHTB16 [325], BartakSR10 [49], BocewiczBB09 [91]	abs-2402-00459 [386], Mehdizadeh-Somarin23 [360], SquillaciPR23 [470], AbreuAPNM21 [143], ZhangYW21 [556], MejiaY20 [361], WessenCS20 [535], WikarekS19 [536], BadicaBIL19 [32], ZhangW18 [557], HookerH18 [259], LimBTBB15 [326], KoschB14 [292], BartakS11 [48], GomesHS06 [211], AbrilSB05 [4], Beck99 [53], BeckF98 [58], Wallace96 [528]
Concepts	no preempt			ColT22 [136], TouatBT22 [496], FanXG21 [173], Bedhief21 [65], Lunardi20 [347], MengZRZL20 [363], ParkUJR19 [408], TerekhovTDB14 [486], MonetteDD07 [368], BeckW07 [64], ArtiguesR00 [25], BlazewiczLK83 [88]
Concepts	open-shop	PrataAN23 [423], Bit-Monnot23 [86], AbreuNP23 [145], NaderiRR23 [381], YuraszeckMPV22 [548], AbreuN22 [144], AbreuAPNM21 [143], ZarandiASC20 [551], MejiaY20 [361], Lunardi20 [347], FahimiOQ18 [170], Siala15a [459], Malapert11 [353], GrimesHM09 [215], OhrimenkoSC09 [398], MonetteDD07 [368], LorigeonBB02 [344], FocacciLN00 [177]	Godet21a [204], Astrand21 [27], SacramentoSP20 [436], MengZRZL20 [363], Dejemeppe16 [148], GrimesH10 [212], Vilim05 [518], Demasse03 [151], BlazewiczLK83 [88]	YuraszeckMCCR23 [549], YuraszeckMC23 [547], KimCMLLP23 [285], ShaikhK23 [454], NaderiBZ22 [380], OujanaAYB22 [402], ColT22 [136], Astrand0F21 [28], abs-2102-08778 [134], AstrandJZ20 [30], ParkUJR19 [408], HookerH18 [259], SialaAH15 [460], Derrien15 [153], BonfiettiLM14 [100], AlesioNBG14 [156], BillautHL12 [85], SchuttFSW11 [447], GrimesH11 [213], BartakSR10 [49], SchuttFSW09 [445], ThiruvadyBME09 [489], VilimBC05 [523], ArtiouchineB05 [26], HentenryckM04 [245], VilimBC04 [522], Vilim03 [516], ElkhyariGJ02a [165], VerfaillieL01 [514], SourdN00 [469]

Table 10: Works for Concepts of Type Concepts

Type	Keyword	High	Medium	Low
Concepts	order	abs-2402-00459 [386], PrataAN23 [423], EfthymiouY23 [163], AbreuNP23 [145], AlfieriGPS23 [11], abs-2312-13682 [411], CzerniachowskaWZ23 [138], TasselGS23 [481], AalianPG23 [1], abs-2306-05747 [482], Bit-Monnot23 [86], JuvinHL23 [272], WangB23 [531], KameugneFND23 [276], LacknerMMWW23 [313], PerezGSL23 [410], JuvinHHL23 [271], SquillaciPR23 [470], IsikYA23 [265], YuraszeckMCCR23 [549], KimCMLLP23 [285], PovedaAA23 [420], PopovicCGNC22 [418], BoudreaultSLQ22 [106], LuoB22 [349], CampeauG22 [115], YunusogluY22 [546], AbreuN22 [144], BourreauGGLT22 [107]... (Total: 336)	MontemanniD23a [370], ShaikhK23 [454], abs-2305-19888 [243], NaderiRR23 [381], TardivoDFMP23 [480], YuraszeckMC23 [547], GurPAE23 [222], OuelletQ22 [401], SvancaraB22 [475], ZhangBB22 [555], ArmstrongGOS22 [21], WinterMMW22 [537], HeinzNVH22 [242], JungblutK22 [270], TouatBT22 [496], BenderWS21 [75], GeibingerMM21 [197], HillTV21 [248], HeinzNVH22 [242], JungblutK22 [270], WallaceY20 [529], ZouZ20 [565], TangB20 [478], ColT19 [135], BogaerdtW19 [510], FrohnerTR19 [183], YounespourAKE19 [544], DemirovicS18 [152], ShinBBHO18 [457]... (Total: 94)	MontemanniD23 [371], AkramNHRSA23 [9], Mehdizadeh-Somarin23 [360], ZhangJZL22 [554], AbohashimaEG21 [2], ZhangYW21 [556], MokhtarzadehTNF20 [367], KucukY19 [307], abs-1902-01193 [10], GalleguillosKSB19 [185], ArbaouiY18 [19], BenediktSMVH18 [78], He0GLW18 [231], TranVNB17a [504], Hooker17 [256], Bonfietti16 [95], SzerediS16 [476], HechingH16 [235], BridiLBBM16 [110], HurleyOS16 [263], Derrien15 [153], GayHS15a [191], ThiruvadyWGS14 [490], DoulabiRP14 [160], GuSS13 [220], LombardiM13 [341], SchuttFS13 [444], BonfiettiLM13 [99], HeinzKB13 [238]... (Total: 57)
Concepts	precedence	abs-2402-00459 [386], PovedaAA23 [420], YuraszeckMCCR23 [549], NaderiRR23 [381], IsikYA23 [265], AlfieriGPS23 [11], JuvinHHL23 [271], FetgoD22 [176], PohlAK22 [416], CampeauG22 [115], YunusogluY22 [546], ZhangBB22 [555], BoudreaultSLQ22 [106], Godet21a [204], GeibingerMM21 [197], HamPK21 [225], HanenKP21 [227], Astrand0F21 [28], Astrand21 [27], HillTV21 [248], KoehlerBFFHPSSS21 [288], FanXG21 [173], HubnerGSV21 [262], ArmstrongGOS21 [20], ZhangYW21 [556], GroleazNS20 [218], SacramentoSP20 [436], Polo-MejiaALB20 [417], AstrandJZ20 [30]... (Total: 143)	Bit-Monnot23 [86], KameugneFND23 [276], TardivoDFMP23 [480], OujanaAYB22 [402], SubulanC22 [471], ColT22 [136], VlkHT21 [526], AntuoriHHEN21 [17], WessenCS20 [535], MokhtarzadehTNF20 [367], QinDCS20 [426], GeibingerMM19 [196], Novas19 [391], abs-1911-04766 [195], ColT19 [135], BogaerdtW19 [510], MurinR19 [376], Ham18 [224], KameugneFGOQ18 [275], Madi-WambaLOBM17 [351], MossigeGSMC17 [372], Madi-WambaB16 [350], GayHLS15 [189], VilimLS15 [524], BurtLPS15 [113], LombardiBM15 [334], BartakV15 [50], WangMD15 [532], BonfiettiLM14 [100]... (Total: 62)	PrataAN23 [423], KimCMLLP23 [285], JuvinHL23 [272], TasselGS23 [481], abs-2305-19888 [243], Mehdizadeh-Somarin23 [360], abs-2306-05747 [482], YuraszeckMC23 [547], MullerMKP22 [375], WinterMMW22 [537], abs-2211-14492 [472], HeinzNVH22 [242], BourreauGGLT22 [107], ZhangJZL22 [554], GeitzGSSW22 [198], TouatBT22 [496], Lemos21 [318], KovacsTKSG21 [300], PandeyS21a [404], AbreuAPNM21 [143], TangB20 [478], GroleazNS20a [217], BaptisteB18 [37], He0GLW18 [231], OuelletQ18 [400], GokgurHO18 [207], DemirovicS18 [152], TranVNB17 [503], CappartS17 [116]... (Total: 92)
Concepts	preempt	JuvinHHL23 [271], PovedaAA23 [420], SubulanC22 [471], Godet21a [204], HanenKP21 [227], Polo-MejiaALB20 [417], ZarandiASC20 [551], BaptisteB18 [37], GokgurHO18 [207], FahimiOQ18 [170], Dejemeppe16 [148], ZarandiKS16 [550], EvenSH15 [168], EvenSH15a [169], AlesioNBG14 [156], LombardiM12 [340], BeldiceanuCDP11 [71], KovacsB11 [295], BartakSR10 [49], Lombardi10 [333], KovacsB07 [293], MonetteDD07 [368], Wolf03 [538], BaptisteP00 [40], PapaB98 [407], PembertonG98 [409], BaptisteP97 [39], CarlierP90 [120], BlazewiczLK83 [88]	PrataAN23 [423], abs-2305-19888 [243], OuelletQ22 [401], FetgoD22 [176], HeinzNVH22 [242], Astrand21 [27], SacramentoSP20 [436], Mercier-AubinGQ20 [365], Lunardi20 [347], LunardiBLRV20 [346], YoungFS17 [545], NattafAL15 [382], SimoninAHL15 [462], TerekhovTDB14 [486], OzturkTHO13 [403], BajestaniB13 [34], SimoninAHL12 [461], SchuttFSW11 [447], Malapert11 [353], SchuttFSW09 [445], Laborie09 [309], KovacsB08 [294], ArtiouchineB05 [26], SourdN00 [469], Beck99 [53], NuijtenP98 [396]	NaderiRR23 [381], TasselGS23 [481], AalianPG23 [1], TardivoDFMP23 [480], YuraszeckMC23 [547], YuraszeckMCCR23 [549], KameugneFND23 [276], AkramNHRSA23 [9], AbreuNP23 [145], abs-2306-05747 [482], IsikYA23 [265], Mehdizadeh-Somarin23 [360], AbreuN22 [144], ZhangBB22 [555], TouatBT22 [496], Teppan22 [484], GeitzGSSW22 [198], BoudreaultSLQ22 [106], ColT22 [136], MullerMKP22 [375], YunusogluY22 [546], OujanaAYB22 [402], JungblutK22 [270], Bedhief21 [65], BenderWS21 [75], FanXG21 [173], QinWSLS21 [425], KovacsTKSG21 [300], HubnerGSV21 [262]... (Total: 127)
Concepts	producer/consumer	SchuttS16 [450], PoderBS04 [415], Kumar03 [306], Beck99 [53], SimonisC95 [468]	HermenierDL11 [247], BeldiceanuC02 [70], Simonis99 [465], Simonis95a [463]	GeitzGSSW22 [198], KlankeBYE21 [286], CappartTSR18 [117], LombardiM12a [339], PoderB08 [414], Simonis07 [466], Timpe02 [492], Simonis95 [464]

Table 10: Works for Concepts of Type Concepts

Type	Keyword	High	Medium	Low
Concepts	re-scheduling	Astrand21 [27], Lemos21 [318], HamPK21 [225], BarzegaranZP20 [52], ZarandiASC20 [551], ZhangW18 [557], Madi-WambaLOBM17 [351], CappartS17 [116], BartakV15 [50], GrimesIOS14 [216], TranTDB13 [502], BajestaniB13 [34], RendlPHPR12 [429], LombardiM12 [340], IfrimOS12 [264], NovasH10 [392], BidotVLB09 [84], Laborie03 [308], MartinPY01 [358], ArtiguesR00 [25]	Mehdizadeh-Somarin23 [360], KovacsTKSG21 [300], AstrandJZ20 [30], TranPZLDB18 [501], HoYCLLC18 [249], LimHTB16 [325], HurleyOS16 [263], LimBTBB15 [326], Lombardi10 [333], CobanH10 [132], Acuna-AgostMFG09 [5], Beck99 [53]	PrataAN23 [423], abs-2312-13682 [411], abs-2306-05747 [482], EfthymiouY23 [163], ShaikhK23 [454], abs-2305-19888 [243], TasselGS23 [481], GurPAE23 [222], NaderiRR23 [381], PerezGSL23 [410], BourreauGGLT22 [107], FarsiTM22 [174], YunusogluY22 [546], HeinzNVH22 [242], ArmstrongGOS22 [21], LuoB22 [349], PohlAK22 [416], YuraszeckMPV22 [548], KlankeBYE21 [286], PandeyS21a [404], ZhangYW21 [556], Lunardi20 [347], BenediktMH20 [77], MejiaY20 [361], LunardiBLRV20 [346], NishikawaSTT19 [389], YounespourAKE19 [544], GalleguillosKSB19 [185], Tom19 [493]... (Total: 75)
Concepts	release-date	WinterMMW22 [537], YunusogluY22 [546], YuraszeckMPV22 [548], HanenKP21 [227], Bedhief21 [65], Polo-MejiaALB20 [417], EscobetPQPRA19 [167], Tesch18 [488], KameugneFSN14 [278], LimtanyakulS12 [328], SerraNM12 [453], KameugneFSN11 [277], KovacsB11 [295], Lombardi10 [333], LombardiM10a [337], BartakSR10 [49], abs-0907-0939 [413], KovacsB07 [293], AkkerDH07 [509], SadykovW06 [438], ArtiouchineB05 [26], Hooker05 [252], SchuttWS05 [452], Hooker04 [251], Zhou97 [560], Zhou96 [559], Colombani96 [137]	PrataAN23 [423], LacknerMMWW23 [313], LacknerMMWW21 [312], Godet21a [204], AntuoriHHEN20 [16], GroleazNS20 [218], ZarandiASC20 [551], GroleazNS20a [217], abs-1911-04766 [195], GeibingerMM19 [196], Dejemeppe16 [148], HeinzSB13 [241], KelbelH11 [281], Laborie09 [309], Limtanyakul07 [327], Simonis07 [466], Hooker06 [254], Hooker05a [253], WuBB05 [541], Sadykov04 [437], SourdN00 [469], Beck99 [53], BeckF98 [58]	PovedaAA23 [420], IsikYA23 [265], YuraszeckMC23 [547], TouatBT22 [496], PohlAK22 [416], AntuoriHHEN21 [17], GeibingerMM21 [197], ZhangYW21 [556], HillTV21 [248], AbreuAPNM21 [143], KovacsTKSG21 [300], Astrand21 [27], GodetLHS20 [205], Lunardi20 [347], MejiaY20 [361], Novas19 [391], abs-1902-09244 [230], LaborieRSV18 [311], Laborie18a [310], GokgurHO18 [207], HookerH18 [259], NattafAL17 [383], NattafAL15 [382], DejemeppeCS15 [149], KoschB14 [292], TerekhovTDB14 [486], HeinzKB13 [238], SchuttFSW13 [448], BillautHL12 [85]... (Total: 59)
Concepts	resource	PrataAN23 [423], abs-2402-00459 [386], JuvinHHL23 [271], KameugneFND23 [276], PovedaAA23 [420], YuraszeckMCCR23 [549], abs-2305-19888 [243], CzerniachowskaWZ23 [138], ShaikhK23 [454], AlfieriGPS23 [11], NaderiRR23 [381], AalianPG23 [1], WangB23 [531], TardivoDFMP23 [480], GurPAE23 [222], NaderiBZ22 [380], BourreauGGLT22 [107], HeinzNVH22 [242], ZhangBB22 [555], GeitzGSSW22 [198], LuoB22 [349], AbreuN22 [144], BoudreaaultSLQ22 [106], TouatBT22 [496], YunusogluY22 [546], CampeauG22 [115], SubulanC22 [471], OuelletQ22 [401], FarsiTM22 [174]... (Total: 328)	Caballero23 [114], PerezGSL23 [410], abs-2312-13682 [411], IsikYA23 [265], abs-2306-05747 [482], TasselGS23 [481], Bit-Monnot23 [86], AbreuNP23 [145], abs-2211-14492 [472], PohlAK22 [416], YuraszeckMPV22 [548], MullerMKP22 [375], WinterMMW22 [537], SvancaraB22 [475], AstrandOF21 [28], KlankeBYE21 [286], MokhtarzadehTNF20 [367], TangB20 [478], LunardiBLRV20 [346], WallaceY20 [529], FrimodigS19 [182], abs-1902-01193 [10], ParkUJR19 [408], HoYCLLC18 [249], GedikKEK18 [193], Ham18 [224], BenediktSMVH18 [78], GelainPRVW17 [199], GoldwasserS17 [208]... (Total: 56)	MontemanniD23 [371], AkramNHRSA23 [9], SquillaciPR23 [470], Teppan22 [484], PopovicCGNC22 [418], ArmstrongGOS22 [21], JungblutK22 [270], ZhangJZL22 [554], AntuoriHHEN21 [17], HamPK21 [225], AbreuAPNM21 [143], AbohashimaEG21 [2], KoehlerBFFHPSSS21 [288], ArmstrongGOS21 [20], FanXG21 [173], abs-2102-08778 [134], MejiaY20 [361], BarzegaranZP20 [52], NattafM20 [384], BadicaBIL19 [32], KucukY19 [307], ColT19 [135], AstrandJZ18 [29], ZhangW18 [557], KletzanderM17 [287], TranVNB17a [504], Hooker17 [256], ZarandiKS16 [550], BajestaniB15 [35]... (Total: 60)
Concepts	scheduling	abs-2402-00459 [386], PrataAN23 [423], AbreuNP23 [145], TasselGS23 [481], Bit-Monnot23 [86], IsikYA23 [265], AalianPG23 [1], abs-2305-19888 [243], abs-2312-13682 [411], PerezGSL23 [410], abs-2306-05747 [482], JuvinHHL23 [271], TardivoDFMP23 [480], YuraszeckMC23 [547], Mehdizadeh-Somarin23 [360], MontemanniD23 [371], KimCMLLP23 [285], AkramNHRSA23 [9], ShaikhK23 [454], KameugneFND23 [276], LacknerMMWW23 [313], GurPAE23 [222], PovedaAA23 [420], EfthymiouY23 [163], AlfieriGPS23 [11], SquillaciPR23 [470], Caballero23 [114], CzerniachowskaWZ23 [138], YuraszeckMCCR23 [549]... (Total: 472)	HebrardALLCMR22 [232], GayHS15 [190], Kameugne15 [274], BessiereHMQW14 [83], HoundjiSWD14 [261], LetortCB13 [320], LetortBC12 [319], ChapadosJR11 [127], ClercqPBj11 [131], Baptiste09 [36], Acuna-AgostMFG09 [5], abs-0907-0939 [413], GomesHS06 [211], MoffittPP05 [366], WuBB05 [541], DilkinaDH05 [157], HebrardTW05 [234], Vilim03 [516], ValleMGT03 [508], Vilim02 [515], HookerY02 [260], RodriguezDG02 [432], CestaOS98 [126], FrostD98 [184], Touraivane95 [497]	Hooker17 [256], RossiTHP07 [434], AbrilSB05 [4], VanczaM01 [513], DechterMP91 [147]

Table 10: Works for Concepts of Type Concepts

Type	Keyword	High	Medium	Low	
Concepts	sequence setup	dependent	GedikKEK18 [193], TranB12 [499], FocacciLN00 [177]	IsikYA23 [265], YuraszeckMPV22 [548], GeitzGSSW22 [198], MengZRZL20 [363], CauwelaertDS20 [125], ZarandiASC20 [551], RiahiNS018 [430], Dejemeppe16 [148], LombardiM12 [340], Simonis07 [466], ArtiguesBF04 [23]	PrataAN23 [423], NaderiRR23 [381], abs-2305-19888 [243], YunusogluY22 [546], PohlAK22 [416], HeinzNVH22 [242], OujanaAYB22 [402], Bedhief21 [65], HamPK21 [225], ArmstrongGOS21 [20], Astrand21 [27], Mercier-AubinGQ20 [365], MejiaY20 [361], MalapertN19 [354], Novas19 [391], KucukY19 [307], ArbaouiY18 [19], LaborieRSV18 [311], Ham18 [224], FahimiOQ18 [170], HookerH18 [259], Pralet17 [421], CauwelaertDMS16 [123], NovaraNH16 [390], DejemeppeCS15 [149], BajestaniB15 [35], Siala15a [459], KovacsK11 [297], GrimesH10 [212]... (Total: 35)
Concepts	setup-time		PrataAN23 [423], LacknerMMWW23 [313], IsikYA23 [265], abs-2305-19888 [243], AbreuNP23 [145], NaderiRR23 [381], YuraszeckMPV22 [548], PohlAK22 [416], GeitzGSSW22 [198], NaderiBZ22 [380], WinterMMW22 [537], HeinzNVH22 [242], AbreuN22 [144], OujanaAYB22 [402], YunusogluY22 [546], ColT22 [136], LacknerMMWW21 [312], Astrand21 [27], Lunardi20 [347], NattafM20 [384], MejiaY20 [361], GroleazNS20 [218], Mercier-AubinGQ20 [365], QinDCS20 [426], LunardiBLRV20 [346], CauwelaertDS20 [125], ZarandiASC20 [551], GroleazNS20a [217], MengZRZL20 [363]... (Total: 49)	AlferiGPS23 [11], CzerniachowskaWZ23 [138], KimCMLLP23 [285], LiFJZLL22 [322], Bedhief21 [65], AbreuAPNM21 [143], ArmstrongGOS21 [20], FanXG21 [173], AstrandJZ20 [30], LaborieRSV18 [311], HookerH18 [259], NovaraNH16 [390], GaySS14 [192], OzturkTHO13 [403], KelarevaTK13 [280], Malapert11 [353], ThiruvadyBME09 [489], BeniniBGM06 [79], Timpe02 [492], Vilim02 [515]	YuraszeckMCCR23 [549], JuvinHHL23 [271], JuvinHL23 [272], Mehdizadeh-Somarin23 [360], EfthymiouY23 [163], abs-2211-14492 [472], ZhangJZL22 [554], MullerMKP22 [375], Teppan22 [484], HamPK21 [225], ZhangYW21 [556], AbohashimaEG21 [2], BenderWS21 [75], GodetLHS20 [205], MokhtarzadehTNF20 [367], Polo-MejiaALB20 [417], BehrensLM19 [67], abs-1902-09244 [230], KucukY19 [307], WikarekS19 [536], GokgurHO18 [207], CappartTSR18 [117], FahimiOQ18 [170], TranVNB17a [504], GilesH16 [201], Siala15a [459], ZhouGL15 [561], BajestaniB15 [35], MelgarejoLS15 [8]... (Total: 56)
Concepts	stock level		LopesCSM10 [342], SimonisC95 [468]	RossiTHP07 [434], Timpe02 [492], Simonis99 [465]	KhemmoudjPB06 [284], Beck99 [53], Simonis95a [463]
Concepts	tardiness		PrataAN23 [423], IsikYA23 [265], AlferiGPS23 [11], KimCMLLP23 [285], LacknerMMWW23 [313], NaderiRR23 [381], WinterMMW22 [537], TouatBT22 [496], YunusogluY22 [546], AbreuN22 [144], OujanaAYB22 [402], NaderiBZ22 [380], PohlAK22 [416], abs-2211-14492 [472], FanXG21 [173], AntuoriHHEN21 [17], LacknerMMWW21 [312], ZarandiASC20 [551], GroleazNS20a [217], Mercier-AubinGQ20 [365], AntuoriHHEN20 [16], MengZRZL20 [363], TangB20 [478], abs-1902-09244 [230], ParkUJR19 [408], BogaerdtW19 [510], LaborieRSV18 [311], NovaraNH16 [390], Dejemeppe16 [148]... (Total: 50)	abs-2402-00459 [386], AbreuNP23 [145], SubulanC22 [471], FarsiTM22 [174], ColT22 [136], KovacsTKSG21 [300], AbreuAPNM21 [143], GroleazNS20 [218], Lunardi20 [347], GedikKEK18 [193], GokgurHO18 [207], Hooker17 [256], ThiruvadyWGS14 [490], TerekhovTDB14 [486], BajestaniB13 [34], Malapert11 [353], NovasH10 [392], BartakSR10 [49], Beck06 [54], QuirogaZH05 [428], Hooker05 [252], GodardLN05 [203], BeckPS03 [60]	Mehdizadeh-Somarin23 [360], JuvinHL23 [272], abs-2306-05747 [482], TasselGS23 [481], LiFJZLL22 [322], ZhangJZL22 [554], VlKHT21 [526], HanenKP21 [227], KoehlerBFFHPSSS21 [288], HamPK21 [225], GeibingerMM21 [197], Astrand21 [27], HubnerGSV21 [262], QinWSLS21 [425], Bedhief21 [65], QinDCS20 [426], Polo-MejiaALB20 [417], MejiaY20 [361], LunardiBLRV20 [346], Tom19 [493], Novas19 [391], RiahiNS018 [430], HookerH18 [259], ZhangW18 [557], DejemeppeCS15 [149], MelgarejoLS15 [8], ZhouGL15 [561], BurtLPS15 [113], LimBTBB15 [326]... (Total: 58)

Table 10: Works for Concepts of Type Concepts

Type	Keyword	High	Medium	Low
Concepts	task	PrataAN23 [423], abs-2402-00459 [386], JuvinHL23 [272], CzerniachowskaWZ23 [138], JuvinHHL23 [271], WangB23 [531], YuraszeckMCCR23 [549], PovedaAA23 [420], abs-2305-19888 [243], KameugneFND23 [276], AkramNHRSA23 [9], LiFJZLL22 [322], CampeauG22 [115], ColT22 [136], SubulanC22 [471], OuelletQ22 [401], FetgoD22 [176], abs-2211-14492 [472], GeitzGSSW22 [198], TouatBT22 [496], HeinzNVH22 [242], JungblutK22 [270], BoudreaultSLQ22 [106], Astrand0F21 [28], HanenKP21 [227], Astrand21 [27], KoehlerBFFHPSSS21 [288], KlankeBYE21 [286], HillTV21 [248]... (Total: 215)	MontemanniD23a [370], Bit-Monnot23 [86], IsikYA23 [265], MontemanniD23 [371], LacknerMMWW23 [313], ShaikhK23 [454], SquillaciPR23 [470], YuraszeckMPV22 [548], PopovicCGNC22 [418], MullerMKP22 [375], WinterMMW22 [537], AbreuN22 [144], FarsiTM22 [174], SvancaraB22 [475], OujanaAYB22 [402], BenderWS21 [75], HubnerGSV21 [262], GeibingerMM21 [197], ZouZ20 [565], BarzegaranZP20 [52], Polo-MejiaALB20 [417], AntuoriHHEN20 [16], BadicaBI20 [31], WallaceY20 [529], WikarekS19 [536], HookerH18 [259], DemirovicS18 [152], GoldwaserS18 [209], MusliusS18 [379]... (Total: 54)	NaderiRR23 [381], TasselGS23 [481], EftymiouY23 [163], PerezGSL23 [410], abs-2312-13682 [411], Mehdizadeh-Somarin23 [360], TardivoDFMP23 [480], abs-2306-05747 [482], Teppan22 [484], ZhangJZL22 [554], ZhangBB22 [555], ArmstrongGOS22 [21], ZhangYW21 [556], abs-2102-08778 [134], FanXG21 [173], AbreuAPNM21 [143], AntuoriHHEN21 [17], LacknerMMWW21 [312], HamPK21 [225], AstrandJZ20 [30], SacramentoSP20 [436], FallahiAC20 [172], BenediktMH20 [77], MengZRZL20 [363], CauwelaertDS20 [125], ParkUJR19 [408], MurinR19 [376], abs-1902-09244 [230], FrimodigS19 [182]... (Total: 93)
Concepts	temporal constraint reasoning			BartakSR10 [49], KeriK07 [282], FortinZDF05 [179]
Concepts	transportation	CzerniachowskaWZ23 [138], ArmstrongGOS22 [21], PohlAK22 [416], BourreauGGLT22 [107], GeitzGSSW22 [198], Lemos21 [318], ArmstrongGOS21 [20], QinDCS20 [426], Lunardi20 [347], SacramentoSP20 [436], MurinR19 [376], Ham18 [224], CappartTSR18 [117], PourDERB18 [419], TangLWSK18 [479], GoelSHFS15 [206], NovasH14 [394], KelarevaTK13 [280], NovasH12 [393], HachemiGR11 [223], LopesCSM10 [342], BocewiczBB09 [91], Rodriguez07 [433], ZeballosH05 [552]	NaderiRR23 [381], KimCMLLP23 [285], AbreuN22 [144], SubulanC22 [471], NaderiBZ22 [380], PopovicCGNC22 [418], Astrand21 [27], Godet21a [204], AbohashimaEG21 [2], MengZRZL20 [363], MejiaY20 [361], ZarandiASC20 [551], FallahiAC20 [172], LaborieRSV18 [311], EvenSH15 [168], MelgarejoLS15 [8], RendlPHPR12 [429], Malapert11 [353], MakMS10 [352], MouraSCL08a [373], MouraSCL08 [374], LimRX04 [324], Mason01 [359], ArtiguesR00 [25], Simonis99 [465], Wallace96 [528], BlazewiczLK83 [88]	AalianPG23 [1], IsikYA23 [265], AbreuNP23 [145], abs-2312-13682 [411], WangB23 [531], MontemanniD23a [370], PerezGSL23 [410], AlfieriGPS23 [11], ColT22 [136], BoudreaultSLQ22 [106], abs-2211-14492 [472], ZhangJZL22 [554], YuraszeckMPV22 [548], LiFJZLL22 [322], YunusogluY22 [546], AntuoriHHEN21 [17], Bedhief21 [65], HubnerGSV21 [262], GroleazNS20a [217], WallaceY20 [529], CauwelaertDS20 [125], Novas19 [391], abs-1902-09244 [230], Tom19 [493], GoldwaserS18 [209], HookerH18 [259], GokgurHO18 [207], ZhangW18 [557], ShinBBHO18 [457]... (Total: 72)

## 6.2 Concept Type Classification

Table 11: Works for Concepts of Type Classification

Type	Keyword	High	Medium	Low
Classification	2BPHFSP	TangB20 [478]		
Classification	BPCTOP	KelarevaTK13 [280]		
Classification	Bulk Port Cargo Throughput Optimi- sation Problem			KelarevaTK13 [280]
Classification	CECSP	NattafAL17 [383], NattafAL15 [382]		
Classification	CHSP	EfthymiouY23 [163], WallaceY20 [529]		
Classification	CTW	KoehlerBFFHPSSS21 [288]	Lombardi10 [333]	
Classification	CuSP	KameugneFND23 [276], FetgoD22 [176], Tesch18 [488], KameugneFGOQ18 [275], Tesch16 [487], NattafAL15 [382], Derrien15 [153], DerrienPZ14 [155], KameugneFSN14 [278], KameugneFSN11 [277], SchuttW10 [451], DemasseY03 [151]	GingrasQ16 [202], OuelletQ13 [399]	TardivoDFMP23 [480], HanenKP21 [227], DerrienP14 [154]
Classification	EOSP		SquillaciPR23 [470]	
Classification	Earth Observation Scheduling Problem		SquillaciPR23 [470]	
Classification	FJS	WangB23 [531], YuraszeckMCCR23 [549], MullerMKP22 [375], Teppan22 [484], HamPK21 [225], Lunardi20 [347], LunardiBLRV20 [346], WangB20 [530], ZarandiASC20 [551], MengZRZL20 [363], Novas19 [391], MossigeGSMC17 [372]	OujanaAYB22 [402], abs-1902-09244 [230], ZhangW18 [557], SchuttFS13 [444]	NaderiRR23 [381], ColT22 [136], ZhouGL15 [561]
Classification	Fixed Job Scheduling	WangB20 [530]	WangB23 [531]	
Classification	GCSP	GroleazNS20 [218]		
Classification	HFF	ArmstrongGOS22 [21], OujanaAYB22 [402], ArmstrongGOS21 [20], ZhouGL15 [561]		
Classification	JSPT		MurinR19 [376]	
Classification	JSSP	JuvinHHL23 [271], YuraszeckMC23 [547], TasselGS23 [481], YuraszeckMCCR23 [549], abs-2306-05747 [482], ColT22 [136], YuraszeckMPV22 [548], GeitzGSSW22 [198], Teppan22 [484], Godet21a [204], abs-2102-08778 [134], ZarandiASC20 [551], ColT19 [135], Pralet17 [421], KelbelH11 [281], BidotVLB09 [84], GodardLN05 [203], SourdN00 [469], PapaB98 [407], NuijtenP98 [396], NuijtenA94 [395]	GalleguillosKSB19 [185], LombardiBM15 [334], SialaAH15 [460], BelhadjiI98 [74]	EfthymiouY23 [163], Mehdizadeh-Somarin23 [360], CzerniachowskaWZ23 [138], WikarekS19 [536], PraletLJ15 [422], BajestaniB11 [33]
Classification	KRFP	KamarainenS02 [273], SakkoutW00 [439]		
Classification	LSFRP	KelarevaTK13 [280]		
Classification	Liner Shipping Fleet Repositioning Problem		KelarevaTK13 [280]	
Classification	MGAP	Darby-DowmanLMZ97 [140]		
Classification	Modified Generalized Assignment Problem			
Classification	OSP	NaderiRR23 [381], LacknerMMWW23 [313], Bit-Monnot23 [86], LacknerMMWW21 [312], GayHLS15 [189], Siala15a [459]	SquillaciPR23 [470], GrimesHM09 [215], MonetteDD07 [368]	MengZRZL20 [363]
Classification	OSSP	YuraszeckMC23 [547], AbreuNP23 [145], YuraszeckMPV22 [548], ColT22 [136], AbreuN22 [144], AbreuAPNM21 [143], MejiaY20 [361]		YuraszeckMCCR23 [549], ZarandiASC20 [551]

Table 11: Works for Concepts of Type Classification

Type	Keyword	High	Medium	Low
Classification	Open Shop Scheduling Problem	AbreuNP23 [145], AbreuN22 [144], AbreuAPNM21 [143], MejiaY20 [361], ZarandiASC20 [551]	Malapert11 [353], LorigeonBB02 [344]	PrataAN23 [423], Bit-Monnot23 [86], YuraszeckMCCR23 [549], NaderiRR23 [381], YuraszeckMPV22 [548], ColT22 [136], MengZRZL20 [363], SacramentoSP20 [436], HookerH18 [259], GrimesH10 [212], GrimesHM09 [215], OhrimenkoSC09 [398], MonetteDD07 [368], VerfailleL01 [514]
Classification	PJSSP		PapaB98 [407]	
Classification	PMSP	NaderiRR23 [381], YunusogluY22 [546], WinterMMW22 [537], Godet21a [204], PandeyS21a [404], GodetLHS20 [205], MalapertN19 [354], GedikKEK18 [193], TranB12 [499]	VlkHT21 [526], NattafM20 [384]	OujanaAYB22 [402], ColT22 [136], ZarandiASC20 [551]
Classification	PP-MS-MMRCPP			
Classification	PTC	NattafM20 [384], MalapertN19 [354]	NaderiRR23 [381]	CzerniachowskaWZ23 [138], Teppan22 [484], Dejemeppe16 [148]
Classification	Pre-emptive Job-Shop scheduling Problem			
Classification	RCPSP	YuraszeckMCCR23 [549], PovedaAA23 [420], CampeauG22 [115], BoudreaultSLQ22 [106], SubulanC22 [471], FetgoD22 [176], BenderWS21 [75], GeibingerMM21 [197], HillTV21 [248], HubnerGSV21 [262], Godet21a [204], ZarandiASC20 [551], Polo-MejiaALB20 [417], GeibingerMM19 [196], abs-1902-09244 [230], abs-1911-04766 [195], LaborieRSV18 [311], TangLWSK18 [479], KameugneFGOQ18 [275], Pralet17 [421], KreterSS17 [302], YoungFS17 [545], BofillCSV17 [92], MossigeGSMC17 [372], SzerediS16 [476], SchuttS16 [450], KreterSS15 [301], VilimLS15 [524], BonfiettiLM13 [99]... (Total: 46)	TardivoDFMP23 [480], Caballero23 [114], KameugneFND23 [276], KovacsTKSG21 [300], GroleazNS20a [217], BaptisteB18 [37], Tesch18 [488], CauwelaertLS18 [124], Dejemeppe16 [148], LombardiBM15 [334], NattafAL15 [382], GayHLS15 [189], KameugneFSN14 [278], LombardiM13 [341], KameugneFSN11 [277], HeinzS11 [240], abs-1009-0347 [446], KeriK07 [282], KovacsV06 [299], HeipckeCCS00 [244], ArtiguesR00 [25]	NaderiRR23 [381], GeitzGSSW22 [198], TouatBT22 [496], HanenKP21 [227], Astrand21 [27], ZhangYW21 [556], Lemos21 [318], Mercier-AubinGQ20 [365], WikarekS19 [536], OuelletQ18 [400], HookerH18 [259], FahimiOQ18 [170], GingrasQ16 [202], BonfiettiZLM16 [102], Tesch16 [487], SialaAH15 [460], Siala15a [459], GayHS15a [191], DerrienPZ14 [155], BonfiettiLM14 [100], BonfiettiLBM14 [98], KoschB14 [292], SchuttFS13a [443], OuelletQ13 [399], SchuttFS13 [444], LetortCB13 [320], BonfiettiM12 [101], BonfiettiLBM12 [97], LombardiBMB11 [335]... (Total: 40)
Classification	RCPSPDC			CampeauG22 [115], HubnerGSV21 [262]
Classification	Resource-constrained Project Scheduling Problem with Discounted Cashflow			
Classification	SBSFMMAL	OzturkTHO13 [403]		
Classification	SCC	KimCMLLP23 [285], WolinskiKG04 [540]	SchuttFSW13 [448], Lombardi10 [333], abs-1009-0347 [446]	PohlAK22 [416], BeniniLMR11 [80], SchausHMCMD11 [440]
Classification	SMSDP			
Classification	Steel-making and continuous casting			
Classification	TCSP	BelhadjiI98 [74], DechterMP91 [147]		BartakSR10 [49], Lombardi10 [333], LombardiM10a [337], Demasse03 [151]
Classification	TMS	PopovicCGNC22 [418]	BegB13 [66]	CappartS17 [116], Siala15a [459]
Classification	Temporal Constraint Satisfaction Problem		BelhadjiI98 [74]	BartakSR10 [49], MoffittPP05 [366], DechterMP91 [147]



Table 11: Works for Concepts of Type Classification

Type	Keyword	High	Medium	Low
Classification	parallel machine	PrataAN23 [423], abs-2305-19888 [243], IsikYA23 [265], CzerniachowskaWZ23 [138], NaderiRR23 [381], ZhangJZL22 [554], WinterMMW22 [537], HeinzNVH22 [242], OujanaAYB22 [402], YunusogluY22 [546], PandeyS21a [404], Astrand21 [27], Godet21a [204], Lunardi20 [347], GodetLHS20 [205], ZarandiASC20 [551], MengZRZL20 [363], NattafM20 [384], MalapertN19 [354], GedikKEK18 [193], ArbaouiY18 [19], GokgurHO18 [207], HebrardHJMPV16 [233], TranB12 [499], EdisO11 [162]	AbreuNP23 [145], Teppan22 [484], NaderiBZ22 [380], ColT22 [136], Bedhief21 [65], SacramentoSP20 [436], MejiaY20 [361], MokhtarzadehTNF20 [367], ParkUJR19 [408], Novas19 [391], BogaerdtW19 [510], BenediktSMVH18 [78], ZhouGL15 [561], TerekhovTDB14 [486], TranTDB13 [502], BajestaniB13 [34], KovacsB11 [295], AkkerDH07 [509], SadykovW06 [438], Thorsteinsson01 [491]	KimCMLLP23 [285], JuvinHHL23 [271], LacknerMMWW23 [313], Mehdizadeh-Somarin23 [360], AlfieriGPS23 [11], ArmstrongGOS22 [21], HamPK21 [225], LacknerMMWW21 [312], HanenKP21 [227], FanXG21 [173], AbohashimaEG21 [2], AbreuAPNM21 [143], AstrandJZ20 [30], GroleazNS20a [217], QinDCS20 [426], NishikawaSTT19 [389], Ham18 [224], LaborieRSV18 [311], BaptisteB18 [37], HookerH18 [259], KletzanderM17 [287], KreterSS17 [302], FontaineMH16 [178], BurtLPS15 [113], KreterSS15 [301], NovasH14 [394], LombardiM12 [340], LahimerLH11 [314], KovacsB07 [293]... (Total: 32)
Classification	psplib	TardivoDFMP23 [480], OuelletQ18 [400], GayHS15a [191], LetortCB15 [321], Derrien15 [153], KameugneFSN14 [278], DerrienP14 [154], SchuttFSW13 [448], SchuttFS13a [443], HeinzSB13 [241], SchuttFSW11 [447], BertholdHLMS10 [82], SchuttFSW09 [445], DemasseY03 [151]	KameugneFND23 [276], BoudreaultSLQ22 [106], HillTV21 [248], BadicaBI20 [31], Tesch18 [488], FahimiOQ18 [170], BaptisteB18 [37], SzerediS16 [476], Tesch16 [487], GingrasQ16 [202], GayHLS15 [189], VilimLS15 [524], LombardiBM15 [334], BonfiettiLM14 [100], LetortCB13 [320], LombardiM12a [339], LetortBC12 [319], HeinzS11 [240], Vilim11 [521], SchuttW10 [451], abs-1009-0347 [446]	Godet21a [204], LaborieRSV18 [311], CauwelaertLS18 [124], Pralet17 [421], YoungFS17 [545], BofillCSV17 [92], Dejemeppe16 [148], ThiruvadyWGS14 [490], LombardiM13 [341], OuelletQ13 [399], LombardiM12 [340], KameugneFSN11 [277], LiessM08 [323], FortinZDF05 [179], ElkhyariGJ02a [165]
Classification	single machine	PrataAN23 [423], AlfieriGPS23 [11], LacknerMMWW23 [313], TouatBT22 [496], HamPK21 [225], ZarandiASC20 [551], BenediktMH20 [77], BogaerdtW19 [510], BajestaniB15 [35], BajestaniB13 [34], KovacsB11 [295], ThiruvadyBME09 [489], KovacsB07 [293], SadykovW06 [438], SourdN00 [469]	NaderiBZ22 [380], YuraszeckMPV22 [548], ZhangBB22 [555], PandeyS21a [404], Astrand21 [27], Bedhief21 [65], HillTV21 [248], KoehlerBFFHPSSS21 [288], AbreuAPNM21 [143], LacknerMMWW21 [312], NattafM20 [384], Lunardi20 [347], BenediktSMVH18 [78], Tesch18 [488], TranPZLDB18 [501], KoschB14 [292], BillautHL12 [85], TranB12 [499], KovacsK11 [297], Malapert11 [353], AkkerDH07 [509], Sadykov04 [437], OddiPCC03 [397], SchildW00 [441], BeckF98 [58]	abs-2402-00459 [386], IsikYA23 [265], NaderiRR23 [381], Mehdizadeh-Somarin23 [360], GeitzGSSW22 [198], AbreuN22 [144], ColT22 [136], abs-2211-14492 [472], PohlAK22 [416], ZhangJZL22 [554], LiFJZLL22 [322], Godet21a [204], FanXG21 [173], QinWSLS21 [425], KovacsTKSG21 [300], TangB20 [478], GodetLHS20 [205], ParkUJR19 [408], Tom19 [493], MalapertN19 [354], GedikKEK18 [193], AstrandJZ18 [29], ArbaouiY18 [19], GokgurHO18 [207], MossigeGSMC17 [372], Dejemeppe16 [148], TranWDRFOVB16 [505], DoulabiRP16 [161], ZarandiKS16 [550]... (Total: 62)

## 6.3 Concept Type Constraints

Table 12: Works for Concepts of Type Constraints

Type	Keyword	High	Medium	Low
Constraints	alldifferent	JuvinHHL23 [271], Lemos21 [318], KoehlerBFFHPSSS21 [288], Godet21a [204], CauwelaertLS18 [124], Dejemeppe16 [148], Derrien15 [153], Siala15a [459], Malapert11 [353], Menana11 [362], OhrimenkoSC09 [398], Simonis07 [466]	GodetLHS20 [205], HookerH18 [259], BessiereHMQW14 [83], KelarevaTK13 [280]	WangB23 [531], ColT22 [136], BourreauGGLT22 [107], FarsiTM22 [174], Astrand21 [27], AstrandJZ20 [30], WangB20 [530], AntuoriHHEN20 [16], Lunardi20 [347], MokhtarzadehTNF20 [367], FahimiOQ18 [170], MelgarejoLS15 [8], AlesioNBG14 [156], ChuGNSW13 [128], ClercqPBJ11 [131], HermenierDL11 [247], HachemiGR11 [223], TrojetHL11 [506], LopesCSM10 [342], Malik08 [355], Thorsteinsson01 [491], Simonis99 [465], BeldiceanuC94 [69]
Constraints	alternative constraint	LaborieRSV18 [311]	abs-2305-19888 [243], MurinR19 [376], GokgurHO18 [207]	LacknerMMWW23 [313], NaderiRR23 [381], WinterMMW22 [537], ZhangJZL22 [554], SvancaraB22 [475], HeinzNVH22 [242], ArmstrongGOS21 [20], HubnerGSV21 [262], PandeyS21a [404], VlKHT21 [526], HillTV21 [248], MengZRZL20 [363], Polo-MejiaALB20 [417], SacramentoSP20 [436], YounespourAKE19 [544], EscobetPQPRA19 [167], GeibingerMM19 [196], NishikawaSTT19 [389], GalleguillosKSB19 [185], MalapertN19 [354], abs-1911-04766 [195], ArbaouiY18 [19], Laborie18a [310], NishikawaSTT18a [388], NishikawaSTT18 [387], CohenHB17 [133], TranVNB17a [504], TranVNB17 [503], CappartS17 [116]... (Total: 35)
Constraints	alwaysIn	PopovicCGNC22 [418], SerraNM12 [453]	AalianPG23 [1], LuoB22 [349], TangB20 [478], Polo-MejiaALB20 [417], MalapertN19 [354], LaborieRSV18 [311], GoelSHFS15 [206]	CampeauG22 [115], KreterSS17 [302], BajestaniB13 [34]
Constraints	bin-packing	Godet21a [204], TangB20 [478], CauwelaertLS18 [124], LetortCB15 [321], LetortCB13 [320], HeinzSSW12 [239], LetortBC12 [319], Malapert11 [353], SchausHMCMD11 [440]	LuoB22 [349], BadicaBI20 [31], FrimodigS19 [182], BaptisteB18 [37], GarganiR07 [186], SakkoutW00 [439], SchildW00 [441]	abs-2402-00459 [386], LacknerMMWW23 [313], AkramNHRSA23 [9], abs-2211-14492 [472], YunusogluY22 [546], ArmstrongGOS21 [20], GodetLHS20 [205], HookerH18 [259], TranPZLDB18 [501], Madi-WambaLOBM17 [351], DoulabiRP16 [161], KoschB14 [292], DoulabiRP14 [160], LimtanyakulS12 [328], EdisO11 [162], HermenierDL11 [247], BeldiceanuCDP11 [71], Lombardi10 [333], KovacsB08 [294], HentenryckM08 [246], Simonis07 [466], DavenportKRSH07 [142], BeldiceanuC94 [69], AggounB93 [7]
Constraints	circuit	MontemanniD23a [370], KlankeBYE21 [286], Mercier-AubinGQ20 [365], MokhtarzadehTNF20 [367], HookerH18 [259], Lombardi10 [333], RuggieroBBMA09 [435], Rodriguez07 [433], RodriguezDG02 [432], GruianK98 [219], Wallace96 [528], BeldiceanuC94 [69]	WessenCS20 [535], AntuoriHHEN20 [16], Siala15a [459], TranB12 [499], Malapert11 [353], KrogtLPHJ07 [511], KuchcinskiW03 [305], HookerO03 [258], Thorsteinsson01 [491], Simonis99 [465], Simonis95a [463], DincbasSH90 [158]	PrataAN23 [423], IsikYA23 [265], MontemanniD23 [371], JungblutK22 [270], FarsiTM22 [174], ColT22 [136], MullerMKP22 [375], KoehlerBFFHPSSS21 [288], ArmstrongGOS21 [20], Astrand21 [27], WallaceY20 [529], GroleazNS20 [218], EscobetPQPRA19 [167], CauwelaertLS18 [124], TangLWSK18 [479], CappartTSR18 [117], Hooker17 [256], HechingH16 [235], Dejemeppe16 [148], Bonfietti16 [95], BridiBLMB16 [109], MelgarejoLS15 [8], MurphyMB15 [377], Derrien15 [153], BajestaniB15 [35], HoundjiSWD14 [261], BonfiettiLBM14 [98], CireCH13 [130], SchuttsFS13a [443]... (Total: 50)

Table 12: Works for Concepts of Type Constraints

Type	Keyword	High	Medium	Low
Constraints	cumulative	PovedaAA23 [420], TardivoDFMP23 [480], NaderiRR23 [381], AalianPG23 [1], KameugneFND23 [276], IsikYA23 [265], LacknerMMWW23 [313], FetgoD22 [176], PohlAK22 [416], OuelletQ22 [401], ZhangJZL22 [554], LuoB22 [349], BoudreaultSLQ22 [106], Lemos21 [318], LacknerMMWW21 [312], HanenKP21 [227], KovacsTKSG21 [300], Godet21a [204], SacramentoSP20 [436], Polo-MejiaALB20 [417], Mercier-AubinGQ20 [365], WallaceY20 [529], GodetLHS20 [205], GroleazNS20a [217], GroleazNS20 [218], YangSS19 [543], abs-1911-04766 [195], Novas19 [391], MalapertN19 [354]... (Total: 138)	PrataAN23 [423], abs-2402-00459 [386], EfthymiouY23 [163], abs-2312-13682 [411], PerezGSL23 [410], ColT22 [136], YunusogluY22 [546], CampeauG22 [115], GeitzGSSW22 [198], AbreuN22 [144], HubnerGSV21 [262], HillTV21 [248], KlankeBYE21 [286], NattafM20 [384], GalleguillosKSB19 [185], NishikawaSTT19 [389], BorghesiBLMB18 [104], GedikKEK18 [193], TranVNB17a [504], BoothNB16 [103], BonfiettiZLM16 [102], LimHTB16 [325], Bonfietti16 [95], HurleyOS16 [263], GayHLS15 [189], BurtLPS15 [113], ThiruvadyWGS14 [490], GuSS13 [220], BonfiettiLM13 [99]... (Total: 47)	GurPAE23 [222], TasselGS23 [481], abs-2306-05747 [482], abs-2305-19888 [243], Bit-Monnot23 [86], YuraszeckMCCR23 [549], JuvinHHL23 [271], HeinzNVH22 [242], PopovicCGNC22 [418], abs-2211-14492 [472], SubulanC22 [471], HebrardALLCMR22 [232], ArmstrongGOS22 [21], Astrand21 [27], PandeyS21a [404], KoehlerBFFHPSSS21 [288], GeibingerMM21 [197], ArmstrongGOS21 [20], ZouZ20 [565], CauwelaertDS20 [125], abs-1902-09244 [230], FrimodigS19 [182], WikarekS19 [536], YounespourAKE19 [544], Laborie18a [310], AstrandJZ18 [29], ZhangW18 [557], Ham18 [224], ArbaouiY18 [19]... (Total: 92)
Constraints	cycle	AalianPG23 [1], Astrand0F21 [28], Astrand21 [27], AntuoriHHEN21 [17], AbohashimaEG21 [2], GroleazNS20a [217], AntuoriHHEN20 [16], WallaceY20 [529], AstrandJZ20 [30], ParkUJR19 [408], BorghesiBLMB18 [104], AstrandJZ18 [29], Dejemeppe16 [148], BridiBLMB16 [109], BonfiettiLBM14 [98], BessiereHMOW14 [83], BegB13 [66], Malapert11 [353], LombardiBMB11 [335], SunLYL10 [473], BocewiczBB09 [91], RuggieroBBMA09 [435], MalikMB08 [356], Malik08 [355], RossiTHP07 [434], WolinskiKG04 [540], KuchcinskiW03 [305], Kumar03 [306], ArtiguesR00 [25]... (Total: 36)	ArmstrongGOS21 [20], Simonis07 [466], BeldiceanuC94 [69]	Bit-Monnot23 [86], AkramNHRSA23 [9], ZhangBB22 [555], BourreauGGLT22 [107], AbreuN22 [144], HamPK21 [225], ArmstrongGOS21 [20], AbreuAPNM21 [143], FanXG21 [173], FallahiAC20 [172], TangB20 [478], Mercier-AubinGQ20 [365], QinDCS20 [426], BadicaBI20 [31], MokhtarzadehTNF20 [367], Novas19 [391], BadicaBIL19 [32], abs-1902-09244 [230], KucukY19 [307], EscobetPQPRA19 [167], TangLWSK18 [479], MusliuSS18 [379], LaborieRSV18 [311], Ham18 [224], KreterSS17 [302], Pralet17 [421], DoulabiRP16 [161], TranDRFVOVB16 [500], BonfiettiZLM16 [102]... (Total: 70)
Constraints	diffn	ArmstrongGOS21 [20], Simonis07 [466], BeldiceanuC94 [69]	BeldiceanuCDP11 [71]	LuoB22 [349], BourreauGGLT22 [107], KreterSS17 [302], KreterSS15 [301], TrojetHL11 [506], Malapert11 [353], Timpe02 [492], Simonis99 [465], GruianK98 [219], SimonisC95 [468], Simonis95a [463], Simonis95 [464]
Constraints	disjunctive	JuvinHHL23 [271], NaderiRR23 [381], Bit-Monnot23 [86], YuraszeckMPV22 [548], BourreauGGLT22 [107], ZhangBB22 [555], Astrand21 [27], Godet21a [204], KoehlerBFFHPSSS21 [288], GodetLHS20 [205], LaborieRSV18 [311], HookerH18 [259], FahimiOQ18 [170], GokgurHO18 [207], NattafAL17 [383], Pralet17 [421], MossigeGSMC17 [372], FontaineMH16 [178], GoelSHFS15 [206], Siala15a [459], GayHS15a [191], MelgarejoLS15 [8], SialaAH15 [460], SchuttFS13 [444], OzturkTHO13 [403], SchuttFS13a [443], LombardiM12 [340], BeldiceanuCDP11 [71], SchuttFSW11 [447]... (Total: 62)	BoudreaultSLQ22 [106], Astrand0F21 [28], GeibingerMM21 [197], SacramentoSP20 [436], AstrandJZ20 [30], MejiaY20 [361], Polo-MejiaALB20 [417], YangSS19 [543], CauwelaertLS18 [124], DemirovicS18 [152], KameugneFGOQ18 [275], Dejemeppe16 [148], SimoninAHL15 [462], EvenSH15 [168], EvenSH15a [169], GayHS15 [190], VilimLS15 [524], LipovetzkyBPS14 [329], KameugneFSN14 [278], GaySS14 [192], KelbelH11 [281], HeinzS11 [240], GrimesH11 [213], LiessM08 [323], MouraSCL08a [373], MouraSCL08 [374], MonetteDD07 [368], ArtiouchineB05 [26], BeckR03 [61]... (Total: 35)	abs-2402-00459 [386], LacknerMMWW23 [313], TardivoDFMP23 [480], abs-2306-05747 [482], KameugneFND23 [276], PovedaAA23 [420], EfthymiouY23 [163], TasselGS23 [481], NaderiBZ22 [380], MullerMKP22 [375], OuelletQ22 [401], ColT22 [136], abs-2211-14492 [472], OujanaAYB22 [402], KlankeBYE21 [286], ZhangYW21 [556], Lunardi20 [347], ZarandiASC20 [551], Mercier-AubinGQ20 [365], CauwelaertDS20 [125], WallaceY20 [529], KucukY19 [307], abs-1911-04766 [195], WikarekS19 [536], ColT19 [135], AstrandJZ18 [29], OuelletQ18 [400], CappartTSR18 [117], Ham18 [224]... (Total: 117)

Table 12: Works for Concepts of Type Constraints

Type	Keyword	High	Medium	Low
Constraints	endBeforeStart	SubulanC22 [471], QinDCS20 [426]	NaderiRR23 [381], IsikYA23 [265], PandeyS21a [404], LunardiBLRV20 [346], Lunardi20 [347], MengZRZL20 [363], LaborieRSV18 [311], NovaraNH16 [390], Laborie09 [309]	JuvinHHL23 [271], YuraszeckMCCR23 [549], CzerniachowskaWZ23 [138], LacknerMMWW23 [313], JuvinHL23 [272], AalianPG23 [1], Teppan22 [484], YunusogluY22 [546], CampeauG22 [115], ZhangJZL22 [554], HamPK21 [225], HubnerGSV21 [262], ZhangYW21 [556], LacknerMMWW21 [312], TangB20 [478], ZouZ20 [565], SacramentoSP20 [436], BenediktMH20 [77], Polo-MejiaALB20 [417], MurinR19 [376], abs-1902-09244 [230], ParkUJR19 [408], GeibingerMM19 [196], abs-1911-04766 [195], Novas19 [391], NishikawaSTT18a [388], NishikawaSTT18 [387], Ham18 [224]
Constraints	geost	BeldiceanuCDP11 [71]	LetortBC12 [319], PembertonG98 [409]	Malapert11 [353], BeldiceanuCP08 [72]
Constraints	noOverlap	abs-2305-19888 [243], NaderiRR23 [381], IsikYA23 [265], JuvinHHL23 [271], HeinzNVH22 [242], ColT22 [136], PopovicCGNC22 [418], VlKHT21 [526], LunardiBLRV20 [346], Lunardi20 [347], QinDCS20 [426], GedikKEK18 [193], MelgarejoLS15 [8]	KimCMLLP23 [285], abs-2306-05747 [482], LacknerMMWW23 [313], TasselGS23 [481], AbreuN22 [144], YuraszeckMPV22 [548], PohlAK22 [416], SvancaraB22 [475], KlankeBYE21 [286], Bedhief21 [65], BenderWS21 [75], BenediktMH20 [77], MengZRZL20 [363], ZouZ20 [565], SacramentoSP20 [436], YounespourAKE19 [544], MalapertN19 [354], MurinR19 [376], abs-1911-04766 [195], EscobetPQPRA19 [167], Novas19 [391], LaborieRSV18 [311], ZhangW18 [557], ArbaouiY18 [19], Ham18 [224], TranVNB17 [503], CohenHB17 [133], NovaraNH16 [390], BoothNB16 [103]... (Total: 32)	AbreuNP23 [145], JuvinHL23 [272], YuraszeckMC23 [547], AalianPG23 [1], CzerniachowskaWZ23 [138], SquillaciPR23 [470], Teppan22 [484], YunusogluY22 [546], WinterMMW22 [537], CampeauG22 [115], OujanaAYB22 [402], ArmstrongGOS22 [21], TouatBT22 [496], ZhangJZL22 [554], NaderiBZ22 [380], HamPK21 [225], AbreuAPNM21 [143], LacknerMMWW21 [312], GroleazNS20 [218], GroleazNS20a [217], NattafM20 [384], Polo-MejiaALB20 [417], BogaerdtW19 [510], ColT19 [135], GeibingerMM19 [196], KucukY19 [307], ParkUJR19 [408], BenediktSMVH18 [78], CappartTSR18 [117]... (Total: 34)
Constraints	regular expression		FrimodigS19 [182]	HookerH18 [259]
Constraints	span constraint		CappartS17 [116], SchuttFS13 [444], LombardiM10a [337], Lombardi10 [333], Darby-DowmanLMZ97 [140]	OujanaAYB22 [402], ZhangBB22 [555], TangB20 [478], ZouZ20 [565], YounespourAKE19 [544], LaborieRSV18 [311], SimoninAHL15 [462], SimoninAHL12 [461], SchuttFSW11 [447]
Constraints	table constraint	Lombardi10 [333], LombardiM10a [337], PapaB98 [407]	JelinekB16 [268]	PerezGSL23 [410], abs-2312-13682 [411], ArmstrongGOS21 [20], CauwelaertLS18 [124], Siala15a [459], GayHS15 [190], PesantRR15 [412], MelgarejoLS15 [8], LimtanyakulS12 [328], BeniniLMR11 [80], BeckFW11 [57], HermenierDL11 [247], LopesCSM10 [342], MouraSCL08 [374], GodardLN05 [203], Laborie03 [308], ElkhyariGJ02 [164]

## 6.4 Concept Type ProgLanguages

Table 13: Works for Concepts of Type ProgLanguages

Type	Keyword	High	Medium	Low
ProgLanguages	C	KoehlerBFFHPSSS21 [288]		HubnerGSV21 [262], BogaerdtW19 [510], TangLWSK18 [479], LaborieRSV18 [311], HoYCLLC18 [249], Lombardi10 [333], LombardiM10a [337], Laborie09 [309], GarridoOS08 [188], Layfield02 [317]
ProgLanguages	C++		BourreauGGLT22 [107], NethercoteSBBDT07 [385], Demassey03 [151]	TardivoDFMP23 [480], JuvinHHL23 [271], PopovicCGNC22 [418], ColT22 [136], Astrand21 [27], AntuoriHHEN21 [17], QinWSLS21 [425], AbreuAPNM21 [143], Lemos21 [318], Polo-MejiaALB20 [417], AstrandJZ20 [30], Mercier-AubinGQ20 [365], abs-1902-01193 [10], LaborieRSV18 [311], ArbaouiY18 [19], TranPZLDB18 [501], NattafAL17 [383], BoothNB16 [103], Tesch16 [487], Bonfietti16 [95], NattafAL15 [382], TranTDB13 [502], SchuttFSW13 [448], GuSW12 [221], TranB12 [499], LombardiBMB11 [335], LahimerLH11 [314], BeckFW11 [57], KovacsK11 [297]... (Total: 58)
ProgLanguages	Java	abs-2102-08778 [134], Malapert11 [353]	KuchcinskiW03 [305]	abs-2306-05747 [482], AlfieriGPS23 [11], TasselGS23 [481], KameugneFND23 [276], MullerMKP22 [375], FetgoD22 [176], ColT22 [136], YuraszcekMPV22 [548], OuelletQ22 [401], Teppan22 [484], FanXG21 [173], AntuoriHHEN21 [17], Lemos21 [318], ArmstrongGOS21 [20], CauwelaertDS20 [125], MejiaY20 [361], SacramentoSP20 [436], TangB20 [478], BarzegaranZP20 [52], abs-1911-04766 [195], FrohnerTR19 [183], Tom19 [493], ColT19 [135], GeibingerMM19 [196], CauwelaertLS18 [124], OuelletQ18 [400], LaborieRSV18 [311], KameugneFGOQ18 [275], Madi-WambaB16 [350]... (Total: 49)
ProgLanguages	Julia			HebrardALLCMR22 [232], Astrand21 [27]
ProgLanguages	Lisp			Wallace96 [528]
ProgLanguages	Prolog	ArmstrongGOS21 [20], Simonis99 [465], FalaschiGMP97 [171], Zhou97 [560], LammaMM97 [315], Wallace96 [528], Touraivane95 [497], Simonis95a [463], Simonis95 [464], DincbasSH90 [158]	BadicaBI20 [31], MossigeGSMC17 [372], Madi-WambaLOBM17 [351], Malapert11 [353], MartinPY01 [358], RodosekW98 [431], Zhou96 [559], SimonisC95 [468], BeldiceanuC94 [69], AggounB93 [7]	PopovicCGNC22 [418], ArmstrongGOS22 [21], ZarandiASC20 [551], abs-1902-01193 [10], YangSS19 [543], CauwelaertLS18 [124], JelinekB16 [268], LetortCB15 [321], LetortCB13 [320], LetortBC12 [319], TrojetHL11 [506], BeldiceanuCDP11 [71], Menana11 [362], BartakCS10 [47], AronssonBK09 [22], BeldiceanuCP08 [72], KrogtLPHJ07 [511], Simonis07 [466], QuSN06 [427], Geske05 [200], PoderBS04 [415], Bartak02 [45], BeldiceanuC02 [70], Beck99 [53], KorbAAYG99 [290], BeckF98 [58], Darby-DowmanLMZ97 [140], BrusoniCLMMT96 [112], Goltz95 [210], Ertik91 [166]
ProgLanguages	Python	KoehlerBFFHPSSS21 [288]	abs-2211-14492 [472], AbreuN22 [144], AbreuAPNM21 [143], LaborieRSV18 [311]	EfthymiouY23 [163], SquillaciPR23 [470], Mehdizadeh-Somarin23 [360], AbreuNP23 [145], KimCMLLP23 [285], MontemanniD23 [371], PovedaAA23 [420], MontemanniD23a [370], AkramNHRSA23 [9], NaderiRR23 [381], FetgoD22 [176], PohlAK22 [416], MullerMKP22 [375], ZhangBB22 [555], LuoB22 [349], CampeauG22 [115], KlankeBYE21 [286], FanXG21 [173], Lemos21 [318], HanenKP21 [227], BenderWS21 [75], AbohashimaEG21 [2], Lunardi20 [347], LunardiBLRV20 [346], Mercier-AubinGQ20 [365], FrimodigS19 [182], BehrensLM19 [67], FrohnerTR19 [183], GalleguillosKSB19 [185]... (Total: 37)

## 6.5 Concept Type CPSystems

Table 14: Works for Concepts of Type CPSystems

Type	Keyword	High	Medium	Low
CPSystems	CHIP	TrojetHL11 [506], Simonis07 [466], Simonis99 [465], GruianK98 [219], Wallace96 [528], Simonis95 [464], Goltz95 [210], SimonisC95 [468], Simonis95a [463], BeldiceanuC94 [69], AggounB93 [7], DincbasSH90 [158]	ArmstrongGOS21 [20], YangSS19 [543], LaborieRSV18 [311], HookerH18 [259], Geske05 [200], PoderBS04 [415], Timpe02 [492], Beck99 [53], RodosekW98 [431], Zhou97 [560], LammaMM97 [315]	PrataAN23 [423], TardivoDFMP23 [480], KameugneFND23 [276], LuoB22 [349], FetgoD22 [176], BourreauGGLT22 [107], PopovicCGNC22 [418], Godet21a [204], KlankeBYE21 [286], GodetLHS20 [205], abs-1902-01193 [10], BaptisteB18 [37], KameugneFGOQ18 [275], CauwelaertLS18 [124], GoldwaserS18 [209], GokgurHO18 [207], MossigeGSMC17 [372], Pralet17 [421], KreterSS17 [302], Madi-WambaB16 [350], Dejemeppe16 [148], FontaineMH16 [178], ZhouGL15 [561], SimoninAHL15 [462], LetortCB15 [321], Siala15a [459], KreterSS15 [301], GrimesIOS14 [216], KameugneFSN14 [278]... (Total: 61)
CPSystems	CPO	NaderiRR23 [381], LacknerMMWW23 [313], JuvinHHL23 [271], Bit-Monnot23 [86], CzerniachowskaWZ23 [138], WinterMMW22 [537], ZhangBB22 [555], ColT22 [136], NaderiBZ22 [380], LacknerMMWW21 [312], ArmstrongGOS21 [20], Lunardi20 [347], NattafM20 [384], GroleazNS20 [218], Polo-MejiaALB20 [417], GroleazNS20a [217], SacramentoSP20 [436], GeibingerMM19 [196], ColT19 [135], MalapertN19 [354], LaborieRSV18 [311], CappartTSR18 [117], KreterSS17 [302], GoelSHFS15 [206], PraletLJ15 [422], Laborie09 [309]	AalianPG23 [1], abs-1911-04766 [195], Dejemeppe16 [148], NuijtenA94 [395]	JuvinHL23 [272], PovedaAA23 [420], OujanaAYB22 [402], GeibingerMM21 [197], abs-2102-08778 [134], TangB20 [478], Laborie18a [310], Pralet17 [421], VilimLS15 [524], BartakSR10 [49], GarridoAO09 [187], Vilim09 [519], GarridoOS08 [188], BeldiceanuC94 [69]
CPSystems	Choco Solver	TasselGS23 [481], abs-2306-05747 [482], Godet21a [204], LetortCB15 [321], Derrien15 [153], LetortCB13 [320], OuelletQ13 [399], LetortBC12 [319], Menana11 [362], Malapert11 [353], GrimesHM09 [215], abs-0907-0939 [413], GarridoAO09 [187], GarridoOS08 [188]	KameugneFND23 [276], MullerMKP22 [375], FetgoD22 [176], AntuoriHHEN21 [17], AntuoriHHEN20 [16], LiuLH19 [330], FahimiOQ18 [170], KameugneFGOQ18 [275], LaborieRSV18 [311], GayHS15 [190], KoschB14 [292], DerrienPZ14 [155], DerrienP14 [154], HermenierDL11 [247], ClercqPBJ11 [131]	BourreauGGLT22 [107], OuelletQ22 [401], GodetLHS20 [205], YangSS19 [543], OuelletQ18 [400], GingrasQ16 [202], Madi-WambaB16 [350], EvenSH15a [169], MurphyMB15 [377], EvenSH15 [168], BessiereHMQW14 [83], BartakSR10 [49], RossiTHP07 [434], NethercoteSBBDT07 [385]
CPSystems	Chuffed	LacknerMMWW23 [313], PovedaAA23 [420], BoudreaultSLQ22 [106], MullerMKP22 [375], LacknerMMWW21 [312], GeibingerMM21 [197], ArmstrongGOS21 [20], Godet21a [204], KoehlerBFFHPSSS21 [288], WallaceY20 [529], GodetLHS20 [205], abs-1911-04766 [195], YoungFS17 [545], KreterSS17 [302], SzerediS16 [476], KreterSS15 [301]	GoldwaserS18 [209]	SchutzS16 [450]
CPSystems	Claire	Siala15a [459], Malapert11 [353], DemasseY03 [151], BaptisteP00 [40]	Menana11 [362], BaptisteP97 [39]	HebrardALLCMR22 [232], HanenKP21 [227], Godet21a [204], Derrien15 [153], PapaB98 [407]

Table 14: Works for Concepts of Type CPSystems

Type	Keyword	High	Medium	Low
CPSystems	Cplex	CzerniachowskaWZ23 [138], NaderiRR23 [381], SubulanC22 [471], NaderiBZ22 [380], BourreauGGLT22 [107], MullerMKP22 [375], WinterMMW22 [537], HubnerGSV21 [262], GeibingerKKMMW21 [194], KoehlerBFFHPSSS21 [288], PandeyS21a [404], Bedhief21 [65], Lemos21 [318], HamPK21 [225], QinDCS20 [426], ZouZ20 [565], SacramentoSP20 [436], MejiaY20 [361], LunardiBLRV20 [346], Lunardi20 [347], MengZRZL20 [363], MurinR19 [376], GeibingerMM19 [196], abs-1911-04766 [195], NishikawaSTT19 [389], GurEA19 [566], LaborieRSV18 [311], NishikawaSTT18 [387], NishikawaSTT18a [388]... (Total: 40)	LacknerMMWW23 [313], MehdiZadeh-Somarin23 [360], AbreuNP23 [145], IsikYA23 [265], CampeauG22 [115], YunusogluY22 [546], LuoB22 [349], ColT22 [136], TouatBT22 [496], LacknerMMWW21 [312], KovacsTKSG21 [300], QinWSLS21 [425], ArmstrongGOS21 [20], MokhtarzadehTNF20 [367], NattafM20 [384], WallaceY20 [529], abs-1902-09244 [230], MalapertN19 [354], Novas19 [391], DoulabiRP16 [161], HechingH16 [235], VilimLS15 [524], BofilIGSV15 [94], NattafAL15 [382], PraletLJ15 [422], BofilEGPSV14 [93], GrimesIOS14 [216], HeinzKB13 [238], HeinzB12 [237]... (Total: 43)	AlfieriGPS23 [11], JuvinHL23 [272], SquillaciPR23 [470], GurPAE23 [222], PovedaAA23 [420], YuraszeckMCCR23 [549], AalianPG23 [1], FarsiTM22 [174], abs-2211-14492 [472], YuraszeckMPV22 [548], PohlAK22 [416], PopovicCGNC22 [418], AbreuN22 [144], ZhangYW21 [556], abs-2102-08778 [134], GeibingerMM21 [197], FanXG21 [173], Astrand21 [27], VlkHT21 [526], KlankeBYE21 [286], AbreuAPNM21 [143], TangB20 [478], Polo-MejiaALB20 [417], GroleazNS20a [217], FrimodigS19 [182], BogaerdTW19 [510], EscobetQPRA19 [167], KucukY19 [307], TranPZLDB18 [501]... (Total: 88)
CPSystems	ECLiPSe	BadicaBI20 [31], BadicaBIL19 [32], NethercoteSBBDT07 [385], RodosekW98 [431]	Malapert11 [353], SchuttFSW11 [447], KamarainenS02 [273], Simonis99 [465], Darby-DowmanLMZ97 [140], Wallace96 [528]	FanXG21 [173], MejiaY20 [361], WikarekS19 [536], HookerH18 [259], ZeballosQH10 [553], SchuttFSW09 [445], BeniniBGM06 [79], ChuX05 [129], QuirogaZH05 [428], MartinPY01 [358], LammaMM97 [315]
CPSystems	Gecode	TardivoDFMP23 [480], Astrand21 [27], BadicaBI20 [31], AstrandJZ20 [30], BadicaBIL19 [32], SzerediS16 [476], ZhouGL15 [561], GayHS15 [190], KameugneFSN14 [278], OhrimenkoSC09 [398], NethercoteSBBDT07 [385]	MullerMKP22 [375], AntuoriHHEN21 [17], GeibingerKKMMW21 [194], AstrandOF21 [28], FrohnerTR19 [183], abs-1911-04766 [195], GeibingerMM19 [196], LaborieRSV18 [311], BurtLPS15 [113], BofilEGPSV14 [93], KovacsK11 [297], KameugneFSN11 [277], Malapert11 [353], ThiruvadyBME09 [489]	ArmstrongGOS21 [20], WessenCS20 [535], WallaceY20 [529], MengZRZL20 [363], FrimodigS19 [182], YangSS19 [543], MusliuSS18 [379], CauwelaertLS18 [124], AstrandJZ18 [29], GoldwasserS18 [209], GoldwasserS17 [208], Dejemeppe16 [148], PesantRR15 [412], MonetteDD07 [368]
CPSystems	Gurobi	WangB23 [531], NaderiRR23 [381], LacknerMMWW23 [313], WinterMMW22 [537], ZhangBB22 [555], KovacsTKSG21 [300], GeibingerKKMMW21 [194], KoehlerBFFHPSSS21 [288], LacknerMMWW21 [312], Lemos21 [318], WangB20 [530], WallaceY20 [529], FrohnerTR19 [183], MusliuSS18 [379]	VlkHT21 [526], GoldwasserS18 [209], GoldwasserS17 [208], FontaineMH16 [178]	KimCMLLP23 [285], abs-2305-19888 [243], MontemanniD23 [371], HeinzNVH22 [242], PohlAK22 [416], HubnerGSV21 [262], FanXG21 [173], KlankeBYE21 [286], AbohashimaEG21 [2], BenediktMH20 [77], MengZRZL20 [363], He0GLW18 [231], DemirovicS18 [152], BenediktSMVH18 [78], BurtLPS15 [113], PesantRR15 [412]
CPSystems	Ilog Scheduler	GrimesH11 [213], Malapert11 [353], ZeballosQH10 [553], Laborie03 [308]	LaborieRSV18 [311], NovasH12 [393], HeinzB12 [237], LimtanyakulS12 [328], HeckmanB11 [236], BeckFW11 [57], GrimesHM09 [215], WatsonB08 [534], ZeballosH05 [552], BeckR03 [61], Beck99 [53], NuijtenP98 [396]	Laborie18a [310], SchuttS16 [450], TranWDRFOVB16 [505], TerekhovTDB14 [486], NovasH14 [394], BeniniLMR11 [80], KovacsB11 [295], SchuttFSW11 [447], LahimerLH11 [314], HachemiGR11 [223], LopesCSM10 [342], abs-1009-0347 [446], NovasH10 [392], Vilim09a [520], RuggieroBBMA09 [435], BidotVLB09 [84], KovacsB08 [294], MouraSCL08a [373], MouraSCL08 [374], HoeveGSL07 [512], Beck07 [55], Rodriguez07 [433], Simonis07 [466], BeckW07 [64], KovacsV06 [299], Beck06 [54], Hooker06 [254], WuBB05 [541], ArtiouchineB05 [26]... (Total: 45)
CPSystems	Ilog Solver		GrimesH11 [213], ZeballosQH10 [553]	abs-1902-01193 [10], LaborieRSV18 [311], HookerH18 [259], Dejemeppe16 [148], ZarandiKS16 [550], Siala15a [459], PesantRR15 [412], BonfiettiLBM14 [98], NovasH14 [394], OzturkTHO13 [403], BonfiettiLBM12 [97], NovasH12 [393], HeinzB12 [237], LombardiM12a [339], KelbelH11 [281], BonfiettiLBM11 [96], BajestaniB11 [33], KovacsK11 [297], KovacsB11 [295], TopalogluO11 [494], LombardiM10 [338], abs-1009-0347 [446], LopesCSM10 [342], Lombardi10 [333], LombardiM09 [336], RuggieroBBMA09 [435], MouraSCL08a [373], MouraSCL08 [374], KovacsB08 [294]... (Total: 52)

Table 14: Works for Concepts of Type CPSystems

Type	Keyword	High	Medium	Low
CPSystems	MiniZinc	LacknerMMWW23 [313], TardivoDFMP23 [480], ColT22 [136], BoudreaultSLQ22 [106], MullerMKP22 [375], JungblutK22 [270], ArmstrongGOS21 [20], KoehlerBFFHPSSS21 [288], LacknerMMWW21 [312], Mercier-AubinGQ20 [365], WallaceY20 [529], abs-1911-04766 [195], ColT19 [135], FrohnerTR19 [183], GeibingerMM19 [196], HookerH18 [259], YoungFS17 [545], LiuCGM17 [331], SzerediS16 [476], BofilLEGPSV14 [93], KelarevaTK13 [280], NethercoteSBBDT07 [385]	PovedaAA23 [420], Godet21a [204], MusliuSS18 [379], KreterSS17 [302], KreterSS15 [301]	Bit-Monnot23 [86], OuelletQ22 [401], GeibingerKKMMW21 [194], abs-2102-08778 [134], abs-1901-07914 [68], FrimodigS19 [182], BehrensLM19 [67], DemirovicS18 [152], CappartTSR18 [117], TranVNB17 [503], FontaineMH16 [178], SchuttS16 [450], BurtLPS15 [113], HeinzSB13 [241], SchuttFS13 [444]
CPSystems	Mistral	JuvinHHL23 [271], Siala15a [459], Malapert11 [353], GrimesHM09 [215]	Bit-Monnot23 [86], BillautHL12 [85]	SialaAH15 [460]
CPSystems	OPL	LacknerMMWW23 [313], YunusogluY22 [546], MullerMKP22 [375], TouatBT22 [496], ColT22 [136], LacknerMMWW21 [312], PandeyS21a [404], KoehlerBFFHPSSS21 [288], QinDCS20 [426], Novas19 [391], EscobetPQPRA19 [167], TangLWSK18 [479], LaborieRSV18 [311], NovaraNH16 [390], Dejemeppe16 [148], AlesioNBG14 [156], NovasH12 [393], HachemiGR11 [223], ZeballosQH10 [553], Laborie09 [309], KhayatLR06 [283], AggounB93 [7]	SubulanC22 [471], Teppan22 [484], Mercier-AubinGQ20 [365], ZarandiASC20 [551], ZouZ20 [565], MurinR19 [376], HookerH18 [259], Laborie18a [310], CappartTSR18 [117], LimBTBB15 [326], WangMD15 [532], EvenSH15a [169], NovasH14 [394], OzturkTHO13 [403], SerraNM12 [453], HeinzB12 [237], TopalogluO11 [494], EdisO11 [162], KelbelH11 [281], ZibranR11a [564], Menana11 [362], NovasH10 [392], Simonis07 [466], GarganiR07 [186], KrogtLPHJ07 [511], NethercoteSBBDT07 [385], Hooker06 [254], ZeballosH05 [552], QuirogaZH05 [428]... (Total: 35)	abs-2402-00459 [386], GurPAE23 [222], CzerniachowskaWZ23 [138], MontemanniD23 [371], IsikYA23 [265], EfthymiouY23 [163], YuraszeckMCCR23 [549], PerezGSL23 [410], AbreuNP23 [145], abs-2312-13682 [411], GeitzGSSW22 [198], ArmstrongGOS22 [21], ZhangBB22 [555], BoudreaultSLQ22 [106], OujanaAYB22 [402], LiFJZLL22 [322], VlkHT21 [526], Astrand21 [27], Bedhief21 [65], HamPK21 [225], QinWSLS21 [425], Godet21a [204], abs-2102-08778 [134], HubnerGSV21 [262], Lemos21 [318], Lunardi20 [347], WallaceY20 [529], MengZRZL20 [363], BogaerdW19 [510]... (Total: 88)
CPSystems	OR-Tools	abs-2402-00459 [386], LacknerMMWW23 [313], abs-2211-14492 [472], ColT22 [136], MullerMKP22 [375], abs-2102-08778 [134], KovacsTKSG21 [300], LacknerMMWW21 [312], KoehlerBFFHPSSS21 [288], FallahiAC20 [172], ColT19 [135], GayHS15 [190]	EfthymiouY23 [163], BoudreaultSLQ22 [106], GeibingerKKMMW21 [194], Godet21a [204], BarzegaranZP20 [52], LiuCGM17 [331], Dejemeppe16 [148]	Bit-Monnot23 [86], KimCMLLP23 [285], MontemanniD23 [371], AkramNHRSA23 [9], MontemanniD23a [370], Teppan22 [484], KlankeBYE21 [286], MengZRZL20 [363], GroleazNS20 [218], GalleguillosKSB19 [185], BehrensLM19 [67], abs-1901-07914 [68], YangSS19 [543], PourDERB18 [419], BonfiettiZLM16 [102], ZhouGL15 [561], LombardiM12 [340]
CPSystems	OZ	PrataAN23 [423], NaderiRR23 [381], CzerniachowskaWZ23 [138], IsikYA23 [265], NaderiBZ22 [380], YunusogluY22 [546], ZarandiASC20 [551], WikarekS19 [536], GokgurHO18 [207], CohenHB17 [133], TopalogluO11 [494], NovasH10 [392], Lombardi10 [333], RuggieroBBMA09 [435], Demassey03 [151], Layfield02 [317], VanczaM01 [513], SchildW00 [441], Simonis99 [465], BeldiceanuC94 [69]	GeitzGSSW22 [198], BourreauGGLT22 [107], AbreuN22 [144], SubulanC22 [471], PohlAK22 [416], Astrand21 [27], FanXG21 [173], Godet21a [204], CauwelaertDS20 [125], GodetLHS20 [205], AstrandJZ20 [30], WessenCS20 [535], abs-1901-07914 [68], LiuLH19 [330], Novas19 [391], BehrensLM19 [67], CauwelaertLS18 [124], HookerH18 [259], Hooker17 [256], BridiBLMB16 [109], HebrardHJMPV16 [233], Dejemeppe16 [148], BajestaniB13 [34], EdisO11 [162], Menana11 [362], GrimesH11 [213], ZeballosQH10 [553], BocewiczBB09 [91], LiessM08 [323]... (Total: 33)	Mehdizadeh-Somarin23 [360], GurPAE23 [222], MullerMKP22 [375], CampeauG22 [115], HebrardALLCMR22 [232], ZhangJZL22 [554], ArmstrongGOS22 [21], FetgoD22 [176], TouatBT22 [496], abs-2211-14492 [472], LiFJZLL22 [322], PopovicCGNC22 [418], AbreuAPNM21 [143], ArmstrongGOS21 [20], Bedhief21 [65], LacknerMMWW21 [312], QinWSLS21 [425], Lemos21 [318], PandeyS21a [404], WangB20 [530], SacramentoSP20 [436], FallahiAC20 [172], abs-1911-04766 [195], GurEA19 [566], Tom19 [493], abs-1902-09244 [230], FrimodigS19 [182], NishikawaSTT19 [389], GalleguillosKSB19 [185]... (Total: 87)
CPSystems	SICStus	ArmstrongGOS21 [20], LetortCB15 [321], LetortCB13 [320], LetortBC12 [319]	MossigeGSMC17 [372], Malapert11 [353], SchuttFSW11 [447], QuSN06 [427]	ArmstrongGOS22 [21], PopovicCGNC22 [418], YangSS19 [543], Madi-WambaLOBM17 [351], JelinekB16 [268], BeldiceanuCDP11 [71], TrojetHL11 [506], BartakCS10 [47], SchuttFSW09 [445], BeldiceanuCP08 [72], Geske05 [200], Bartak02 [45], BeldiceanuC02 [70], Simonis99 [465]



Table 14: Works for Concepts of Type CPSystems

Type	Keyword	High	Medium	Low
CPSystems	Z3	KoehlerBFFHPSSS21 [288], YounespourAKE19 [544], Menana11 [362], SureshMOK06 [474]	NaderiRR23 [381], VlKHT21 [526], WikarekS19 [536], Zhou97 [560]	ZhangW18 [557], BofillCSV17 [92], BertholdHLMS10 [82], Rodriguez07 [433], Layfield02 [317], Zhou96 [559]

## 6.6 Concept Type ApplicationAreas

Table 15: Works for Concepts of Type ApplicationAreas

Type	Keyword	High	Medium	Low
ApplicationAreas	COVID		GeibingerKKMMW21 [194]	Mehdizadeh-Somarin23 [360], GurPAE23 [222], OujanaAYB22 [402], Lemos21 [318]
ApplicationAreas	HVAC	LimHTB16 [325], LimBTBB15 [326], GrimesIOS14 [216]		
ApplicationAreas	agriculture			AkramNHRSA23 [9], BenderWS21 [75], HamPK21 [225], Astrand21 [27], QinWSLS21 [425], Astrand0F21 [28], MejiaY20 [361]
ApplicationAreas	aircraft	PohlAK22 [416], WangB20 [530], TranDRFWOVB16 [500], BajestaniB13 [34], LombardiM12 [340], BajestaniB11 [33], FrankK05 [180], ArtiouchineB05 [26], Simonis99 [465]	WangB23 [531], Ham18 [224], Simonis07 [466], SakkoutW00 [439], Simonis95a [463]	PrataAN23 [423], PovedaAA23 [420], ZarandiASC20 [551], abs-1902-09244 [230], HookerH18 [259], LaborieRSV18 [311], Lombardi10 [333], Laborie09 [309], KovacsB08 [294], KrogLPHJ07 [511], MartinPY01 [358], GruianK98 [219], Darby-DowmanLMZ97 [140], Wallace96 [528], Simonis95 [464], SimonisC95 [468]
ApplicationAreas	automotive		YuraszeckMPV22 [548], LimtanyakulS12 [328], SunLYL10 [473], Lombardi10 [333], BarlattCG08 [43], SchildW00 [441]	PovedaAA23 [420], NaderiRR23 [381], CzerniachowskaWZ23 [138], NaderiBZ22 [380], AntuoriHHEN21 [17], HubnerGSV21 [262], AbreuAPNM21 [143], KoehlerBFFHPSSS21 [288], VlKHT21 [526], BarzegaranZP20 [52], GeibingerMM19 [196], abs-1911-04766 [195], BonfiettiZLM16 [102], Siala15a [459], AlesioNBG14 [156], BeniniBGM06 [79], KovacsV06 [299], Wallace96 [528]
ApplicationAreas	cable tree	KoehlerBFFHPSSS21 [288]		BeldiceanuC94 [69]
ApplicationAreas	car manufacturing		AntuoriHHEN21 [17]	abs-2312-13682 [411], PerezGSL23 [410], TouatBT22 [496], CauwelaertDS20 [125], WallaceY20 [529], ZarandiASC20 [551], FallahiAC20 [172], CauwelaertDMS16 [123], Dejemeppe16 [148], DejemeppeCS15 [149], NovasH12 [393], LimRX04 [324]
ApplicationAreas	container terminal	QinDCS20 [426], SacramentoSP20 [436]	LaborieRSV18 [311]	NaderiRR23 [381], WangB23 [531], NaderiBZ22 [380], HeinzNVH22 [242], Lemos21 [318], MokhtarzadehTNF20 [367], TangLWSK18 [479], HookerH18 [259], DoulabiRP16 [161], LipovetzkyBPS14 [329], HachemiGR11 [223], BeldiceanuC02 [70], Bartak02 [45], Bartak02a [44]
ApplicationAreas	crew-scheduling	ZarandiASC20 [551], PourDERB18 [419]	BourreauGGLT22 [107], Mason01 [359], Touraivane95 [497]	
ApplicationAreas	dairies			
ApplicationAreas	dairy	EscobetPQPRA19 [167]	PrataAN23 [423]	
ApplicationAreas	datacenter	HermenierDL11 [247]		GalleguillosKSB19 [185], Madi-WambaLOBM17 [351], IfrimOS12 [264], LetortBC12 [319]
ApplicationAreas	datacentre		HurleyOS16 [263]	
ApplicationAreas	day-ahead market			
ApplicationAreas	deep space			HebrardALLCMR22 [232]
ApplicationAreas	drone	MontemanniD23a [370], MontemanniD23 [371], Ham18 [224]		ShaikhK23 [454], Astrand21 [27], Astrand0F21 [28], AntuoriHHEN21 [17], ZarandiASC20 [551]
ApplicationAreas	earth observation	SquillaciPR23 [470], KucukY19 [307], VerfaillieL01 [514]	BensanaLV99 [81]	HebrardHJMPV16 [233], PraletLJ15 [422], SimoninAHL15 [462], KelarevaTK13 [280], OddiPCC03 [397]
ApplicationAreas	earth orbit			SquillaciPR23 [470]
ApplicationAreas	electroplating		RodosekW98 [431]	EfthymiouY23 [163], WallaceY20 [529], NovasH12 [393]
ApplicationAreas	emergency service		EvenSH15a [169], TopalogluO11 [494]	EvenSH15 [168], SakkoutW00 [439]
ApplicationAreas	energy-price	GrimesIOS14 [216], IfrimOS12 [264]	HurleyOS16 [263]	PrataAN23 [423], EscobetPQPRA19 [167], BenediktSMVH18 [78], He0GLW18 [231], LimHTB16 [325]
ApplicationAreas	farming			WinterMMW22 [537], Astrand0F21 [28]
ApplicationAreas	forestry	HachemiGR11 [223]		Astrand0F21 [28]
ApplicationAreas	hoist	EfthymiouY23 [163], WallaceY20 [529], RodosekW98 [431]	NovasH12 [393], BonfiettiLBM11 [96]	AstrandJZ18 [29], BonfiettiLBM14 [98], BonfiettiM12 [101], BonfiettiLBM12 [97], LombardiBMB11 [335], BeckR03 [61], KorbaaYG99 [290], PapaB98 [407]

Table 15: Works for Concepts of Type ApplicationAreas

Type	Keyword	High	Medium	Low
ApplicationAreas	medical	ShinBBHO18 [457], Dejemeppe16 [148], WangMD15 [532], TopalogluO11 [494]	ZarandiASC20 [551], HechingH16 [235], DejemeppeD14 [150], RendlPHPR12 [429]	ShaikhK23 [454], AbreuNP23 [145], AkramNHRSA23 [9], IsikYA23 [265], FarsiTM22 [174], YunusogluY22 [546], AbreuN22 [144], Lemos21 [318], GeibingerKKMMW21 [194], AbreuAPNM21 [143], Bedhief21 [65], FallahiAC20 [172], abs-1902-01193 [10], FrimodigS19 [182], Novas19 [391], GurEA19 [566], YounespourAKE19 [544], CappartTSR18 [117], HoYCLLC18 [249], GedikKEK18 [193], TranVNB17 [503], TranVNB17a [504], DoulabiRP16 [161], BridiBLMB16 [109], BoothNB16 [103], BonfiettiLBM14 [98], DoulabiRP14 [160], Lombardi10 [333], Simonis07 [466], Beck99 [53]
ApplicationAreas	nurse	GurPAE23 [222], FarsiTM22 [174], ZarandiASC20 [551], abs-1902-01193 [10], HoYCLLC18 [249], ShinBBHO18 [457], LuoVLBM16 [348], WangMD15 [532], RendlPHPR12 [429], Menana11 [362], Simonis07 [466], Mason01 [359]	OuelletQ22 [401], GeibingerKKMMW21 [194], GeibingerMM21 [197], YounespourAKE19 [544], FrohnerTR19 [183]	PerezGSL23 [410], abs-2312-13682 [411], NaderiBZ22 [380], BourreauGGLT22 [107], FallahiAC20 [172], FrimodigS19 [182], GedikKEK18 [193], NishikawaSTT18a [388], HookerH18 [259], MusliuSS18 [379], DoulabiRP16 [161], Dejemeppe16 [148], DoulabiRP14 [160], TopalogluO11 [494], Simonis99 [465]
ApplicationAreas	offshore		SubulanC22 [471]	BoudreaultSLQ22 [106]
ApplicationAreas	operating room	GurPAE23 [222], NaderiRR23 [381], NaderiBZ22 [380], FarsiTM22 [174], YounespourAKE19 [544], GurEA19 [566], DoulabiRP16 [161], WangMD15 [532], DoulabiRP14 [160]	ZarandiASC20 [551], HookerH18 [259]	PerezGSL23 [410], abs-2312-13682 [411], WangB23 [531], GeibingerMM21 [197], MusliuSS18 [379]
ApplicationAreas	oven scheduling	LacknerMMWW23 [313], LacknerMMWW21 [312]		ColT22 [136]
ApplicationAreas	patient	GurPAE23 [222], FarsiTM22 [174], GurEA19 [566], FrimodigS19 [182], YounespourAKE19 [544], ShinBBHO18 [457], CappartTSR18 [117], HechingH16 [235], Dejemeppe16 [148], DoulabiRP16 [161], WangMD15 [532], DejemeppeD14 [150], RendlPHPR12 [429], TopalogluO11 [494]	GeibingerKKMMW21 [194]	AlferiGPS23 [11], NaderiBZ22 [380], AbreuAPNM21 [143], CauwelaertDS20 [125], MurinR19 [376], HoYCLLC18 [249], DoulabiRP14 [160], Malapert11 [353], Simonis07 [466]
ApplicationAreas	perfect-square	BeldiceanuCDP11 [71], BeldiceanuCP08 [72], AggounB93 [7]		
ApplicationAreas	physician	GeibingerKKMMW21 [194], ShinBBHO18 [457]	Dejemeppe16 [148]	GurPAE23 [222], FarsiTM22 [174], FrimodigS19 [182], HookerH18 [259], WangMD15 [532], TopalogluO11 [494]
ApplicationAreas	pipeline	BegB13 [66], LopesCSM10 [342], Lombardi10 [333], RuggieroBBMA09 [435], MouraSCL08 [374], MouraSCL08a [373], Malik08 [355], ErtlK91 [166]	ZouZ20 [565], TangLWSK18 [479], MalikMB08 [356], BeniniBGM06 [79], WolinskiKG04 [540], BeldiceanuC94 [69]	EfthymiouY23 [163], PopovicCGNC22 [418], HanenKP21 [227], NishikawaSTT19 [389], NishikawaSTT18 [387], NishikawaSTT18a [388], LaborieRSV18 [311], Bonfietti16 [95], GilesH16 [201], GoelSHFS15 [206], SimoninAHL15 [462], BonfiettiLBM14 [98], BeniniLMR11 [80], NovasH10 [392], BarlattCG08 [43], KuchcinskiW03 [305], Wolf03 [538], Simonis99 [465], GruianK98 [219], Darby-DowmanLMZ97 [140], SimonisC95 [468], Simonis95a [463]
ApplicationAreas	radiation therapy	FrimodigS19 [182]		HookerH18 [259]
ApplicationAreas	railway	SvancaraB22 [475], Lemos21 [318], PourDERB18 [419], CappartS17 [116], Acuna-AgostMFG09 [5], AronssonBK09 [22], Rodriguez07 [433], Geske05 [200], RodriguezDG02 [432], MartinPY01 [358], LammaMM97 [315]	ZarandiASC20 [551], LaborieRSV18 [311], TangLWSK18 [479], Mason01 [359], BrusoniCLMMT96 [112]	LuoB22 [349], Godet21a [204], BogaerdTW19 [510], ZhouGL15 [561], BajestaniB15 [35], BajestaniB13 [34], BajestaniB11 [33], AbrilSB05 [4], Wallace96 [528]
ApplicationAreas	real-time pricing		He0GLW18 [231], GrimesIOS14 [216]	LimHTB16 [325]
ApplicationAreas	rectangle-packing	YangSS19 [543], AggounB93 [7]	LuoB22 [349], Malapert11 [353]	MossigeGSMC17 [372], DoulabiRP16 [161], Siala15a [459], VilimLS15 [524], BeldiceanuCDP11 [71], SchuttW10 [451], BeldiceanuCP08 [72]

Table 15: Works for Concepts of Type ApplicationAreas

Type	Keyword	High	Medium	Low
ApplicationAreas	robot	IsikYA23 [265], LiFJZLL22 [322], ArmstrongGOS21 [20], Astrand21 [27], KoehlerBFFHPSSS21 [288], WessenCS20 [535], ZarandiASC20 [551], MokhtarzadehTNF20 [367], Lunardi20 [347], MurinR19 [376], abs-1901-07914 [68], BehrensLM19 [67], LaborieRSV18 [311], TranVNB17 [503], MossigeGSMC17 [372], TranVNB17a [504], BoothNB16 [103], NovasH14 [394], NovasH12 [393], BartakSR10 [49], BidotVLB09 [84], ValleMGT03 [508], BeckF98 [58]	PrataAN23 [423], Mehdizadeh-Somarin23 [360], CzerniachowskaWZ23 [138], TouatBT22 [496], YunusogluY22 [546], OujanaAYB22 [402], Astrand0F21 [28], WallaceY20 [529], WikarekS19 [536], NishikawaSTT19 [389], NishikawaSTT18a [388], NishikawaSTT18 [387], Dejemeppe16 [148], VanczaM01 [513], BeckF00 [59], Beck99 [53]	abs-2305-19888 [243], MontemanniD23 [371], HeinzNVH22 [242], FarsiTM22 [174], GeitzGSSW22 [198], MullerMKP22 [375], ColT22 [136], YuraszeckMPV22 [548], HamPK21 [225], ZhangYW21 [556], Godet21a [204], VlkHT21 [526], Bedhief21 [65], FallahiAC20 [172], MengZRZL20 [363], BenediktMH20 [77], MejiaY20 [361], AstrandJZ20 [30], BarzegaranZP20 [52], Novas19 [391], GokgurHO18 [207], Ham18 [224], ZhangW18 [557], AstrandJZ18 [29], ZarandiKS16 [550], TranWDRFOVB16 [505], DoulabiRP16 [161], Derrien15 [153], BajestaniB15 [35]... (Total: 52)
ApplicationAreas	satellite	SquillaciPR23 [470], Godet21a [204], GodetLHS20 [205], KucukY19 [307], LaborieRSV18 [311], HebrardHJMPV16 [233], PraletLJ15 [422], KelarevaTK13 [280], VerfaillieL01 [514], BensanaLV99 [81], PembertonG98 [409]	Laborie09 [309], FrankK05 [180]	EfthymiouY23 [163], TouatBT22 [496], Astrand21 [27], Astrand0F21 [28], ZarandiASC20 [551], TranVNB17 [503], Pralet17 [421], TranWDRFOVB16 [505], SimoninAHL15 [462], BessiereHMQW14 [83], HeinzSB13 [241], SimoninAHL12 [461], RuggieroBBMA09 [435], Rodriguez07 [433], OddiPCC03 [397], NuijtenP98 [396]
ApplicationAreas	semiconductor	ZarandiASC20 [551], MalapertN19 [354], BajestaniB15 [35], NovasH12 [393]	QinWSLS21 [425], GokgurHO18 [207], Davenport10 [141], KrogtLPHJ07 [511]	LacknerMMWW23 [313], YuraszeckMPV22 [548], abs-2211-14492 [472], MullerMKP22 [375], ColT22 [136], ZhangJZL22 [554], FanXG21 [173], LacknerMMWW21 [312], HamPK21 [225], Astrand21 [27], PandeyS21a [404], MengZRZL20 [363], NattafM20 [384], TangB20 [478], Novas19 [391], LaborieRSV18 [311], Ham18 [224], KoschB14 [292], TerekhovTDB14 [486], Malapert11 [353], Lombardi10 [333]
ApplicationAreas	ship building			
ApplicationAreas	shipping line			QinDCS20 [426], LaborieRSV18 [311], KelarevaTK13 [280]
ApplicationAreas	steel cable			AalianPG23 [1]
ApplicationAreas	steel mill	GaySS14 [192], HeinzSSW12 [239], SchausHMCMD11 [440], HentenryckM08 [246], GarganiR07 [186]		abs-2312-13682 [411], PerezGSL23 [410], DoulabiRP16 [161]
ApplicationAreas	super-computer	BorghesiBLMB18 [104], BridiBLMB16 [109], BartoliniBBLM14 [51]		LuoB22 [349], GalleguillosKSB19 [185], Dejemeppe16 [148], HurleyOS16 [263]
ApplicationAreas	surgery	GurPAE23 [222], FarsiTM22 [174], GurEA19 [566], YounespourAKE19 [544], DoulabiRP16 [161], WangMD15 [532], DoulabiRP14 [160]	ZarandiASC20 [551], TopalogluO11 [494]	AlfieriGPS23 [11], NaderiBZ22 [380], Lemos21 [318], FrimodigS19 [182]
ApplicationAreas	torpedo	GoldwaserS18 [209], KletzanderM17 [287], GoldwaserS17 [208]	AntuoriHHEN20 [16]	
ApplicationAreas	vaccine			
ApplicationAreas	yard crane		QinDCS20 [426]	WallaceY20 [529]

## 6.7 Concept Type Industries

Table 16: Works for Concepts of Type Industries

Type	Keyword	High	Medium	Low
Industries	aerospace industry	WinterMMW22 [537]	LimtanyakulS12 [328]	SchildW00 [441]
Industries	agricultural industry			CzerniachowskaWZ23 [138], AntuoriHHEN21 [17], BonfiettiZLM16 [102], SchildW00 [441], Wallace96 [528]
Industries	automotive industry			
Industries	chemical industry	Timpe02 [492]	Timpe02 [492]	LaborieRSV18 [311], GilesH16 [201], LombardiM12 [340], PoderBS04 [415], Simonis99 [465], Simonis95a [463], GilesH16 [201]
Industries	chemical processing industry			BonfiettiZLM16 [102]
Industries	control system industry			
Industries	electricity industry	Timpe02 [492]	Timpe02 [492]	PopovicCGNC22 [418], Godet21a [204]
Industries	electronics industry			LacknerMMWW23 [313], LacknerMMWW21 [312]
Industries	food industry			OujanaAYB22 [402], GroleazNS20a [217], GroleazNS20 [218], EscobetPQPRA19 [167], HachemiGR11 [223], Simonis99 [465], SimonisC95 [468], Simonis95 [464]
Industries	food-processing industry	Timpe02 [492]	Timpe02 [492]	KlankeBYE21 [286], abs-1902-09244 [230]
Industries	manufacturing industry			PrataAN23 [423], CzerniachowskaWZ23 [138], LacknerMMWW23 [313], WinterMMW22 [537], YuraszeckMPV22 [548], FanXG21 [173], LacknerMMWW21 [312], Mercier-AubinGQ20 [365], TangB20 [478], EscobetPQPRA19 [167], GedikKEK18 [193]
Industries	mineral industry			Astrand21 [27], Astrand0F21 [28], AstrandJZ20 [30]
Industries	mining industry	AalianPG23 [1]	AalianPG23 [1]	abs-2402-00459 [386], CampeauG22 [115], Astrand0F21 [28], Astrand21 [27], AstrandJZ20 [30], ThiruvadyWGS14 [490]
Industries	oil industry			AbreuNP23 [145], AbreuAPNM21 [143], LopesCSM10 [342]
Industries	packaging industry			ArmstrongGOS21 [20]
Industries	petro-chemical industry	Timpe02 [492]	Timpe02 [492]	LaborieRSV18 [311], GilesH16 [201]
Industries	pharmaceutical industry			YuraszeckMCCR23 [549], CzerniachowskaWZ23 [138], GeibingerKKMMW21 [194], NovaraNH16 [390]
Industries	potash industry			Astrand21 [27], Astrand0F21 [28], AstrandJZ20 [30], AstrandJZ18 [29]
Industries	power industry	Timpe02 [492]	Timpe02 [492]	FrostD98 [184]
Industries	process industry			HeinzSSW12 [239], Simonis99 [465], Wallace96 [528]
Industries	retail industry			ChapadosJR11 [127]
Industries	services industry	DavenportKRSH07 [142]	DavenportKRSH07 [142]	DoomsH08 [159]
Industries	ship repair industry			BoudreaultSLQ22 [106]
Industries	steel industry			LacknerMMWW23 [313], KimCMLLP23 [285], IsikYA23 [265], OujanaAYB22 [402], LacknerMMWW21 [312], abs-1902-09244 [230], GoldwaserS18 [209], KletzanderM17 [287], GoldwaserS17 [208], HeinzSSW12 [239], SchausHMCMD11 [440], GrimesH10 [212], GarganiR07 [186]
Industries	steel making industry	Mercier-AubinGQ20 [365]	Mercier-AubinGQ20 [365]	ZarandiASC20 [551], BessiereHMqw14 [83]
Industries	textile industry			
Industries	tourism industry			LiuCGM17 [331]

## 6.8 Concept Type Benchmarks

Table 17: Works for Concepts of Type Benchmarks

Type	Keyword	High	Medium	Low
Benchmarks	CSPLib	Siala15a [459], SchausHMCMD11 [440], GarganiR07 [186]	LaborieRSV18 [311], CappartTSR18 [117], MossigeGSMC17 [372], NovaraNH16 [390], HeinzSSW12 [239]	LiuLH19 [330], GelainPRVW17 [199], GaySS14 [192], RendlPHPR12 [429], HentenryckM08 [246], NethercoteSBBDT07 [385]
Benchmarks	Roadef	Siala15a [459]	LetortCB15 [321], LetortCB13 [320], LetortBC12 [319]	CzerniachowskaWZ23 [138], Lemos21 [318], HanenKP21 [227], Polo-MejiaALB20 [417], MalapertN19 [354], Tesch18 [488], OuelletQ18 [400], Tesch16 [487], Menana11 [362], Acuna-AgostMFG09 [5]
Benchmarks	benchmark	IsikYA23 [265], TardivoDFMP23 [480], AlfieriGPS23 [11], JuvinHHL23 [271], ShaikhK23 [454], LacknerMMWW23 [313], PovedaAA23 [420], Bit-Monnot23 [86], NaderiRR23 [381], AbreuNP23 [145], TasselGS23 [481], abs-2306-05747 [482], YuraszeckMCCR23 [549], BoudreaultSLQ22 [106], ZhangJZL22 [554], OuelletQ22 [401], abs-2211-14492 [472], ColT22 [136], TouatBT22 [496], AbreuN22 [144], MullerMKP22 [375], LiFJZLL22 [322], WinterMMW22 [537], Teppan22 [484], HamPK21 [225], abs-2102-08778 [134], KoehlerBFFHPSSS21 [288], PandeyS21a [404], LacknerMMWW21 [312]... (Total: 86)	abs-2402-00459 [386], AkramNHRSA23 [9], YuraszeckMC23 [547], MontemanniD23a [370], KameugneFND23 [276], abs-2305-19888 [243], FetgoD22 [176], OujanaAYB22 [402], NaderiBZ22 [380], ZhangBB22 [555], BourreauGGLT22 [107], HeinzNVH22 [242], Astrand21 [27], AbreuAPNM21 [143], KovacsTKSG21 [300], Lunardi20 [347], MejiaY20 [361], SacramentoSP20 [436], BenediktMH20 [77], AntuoriHHEN20 [16], GroleazNS20 [218], BadicaBI20 [31], MengZRZL20 [363], Novas19 [391], NishikawaSTT19 [389], GeibingerMM19 [196], ArbaouiY18 [19], NishikawaSTT18 [387], FahimiOQ18 [170]... (Total: 75)	PrataAN23 [423], CzerniachowskaWZ23 [138], MontemanniD23 [371], EfthymiouY23 [163], KimCMLLP23 [285], SquillaciPR23 [470], SvancaraB22 [475], JungblutK22 [270], PohlAK22 [416], SubulanC22 [471], YuraszeckMPV22 [548], YunusogluY22 [546], ArmstrongGOS22 [21], Astrand0F21 [28], HubnerGSV21 [262], KlankeBYE21 [286], VlkHT21 [526], ArmstrongGOS21 [20], LunardiBLRV20 [346], CauwelaertDS20 [125], NattafM20 [384], AstrandJZ20 [30], ZarandiASC20 [551], QinDCS20 [426], ZouZ20 [565], abs-1901-07914 [68], BogaerdtW19 [510], FrohnerTR19 [183], MalapertN19 [354]... (Total: 114)
Benchmarks	bitbucket		TardivoDFMP23 [480], Dejemeppe16 [148]	CauwelaertDS20 [125], CauwelaertLS18 [124], He0GLW18 [231], CappartTSR18 [117], CappartS17 [116], CauwelaertDMS16 [123], GayHLS15 [189], GayHS15a [191], DejemeppeCS15 [149], GayHS15 [190], DejemeppeD14 [150], HoundjiSWD14 [261]
Benchmarks	generated instance	IsikYA23 [265], LuoB22 [349], abs-1911-04766 [195]	abs-2312-13682 [411], PerezGSL23 [410], Godet21a [204], MejiaY20 [361], GodetLHS20 [205], Dejemeppe16 [148], Madi-WambaB16 [350], KelbelH11 [281], SchausHMCMD11 [440]	abs-2402-00459 [386], abs-2305-19888 [243], EfthymiouY23 [163], BoudreaultSLQ22 [106], ColT22 [136], YuraszeckMPV22 [548], HeinzNVH22 [242], YunusogluY22 [546], ZhangBB22 [555], abs-2211-14492 [472], TouatBT22 [496], abs-2102-08778 [134], AbreuAPNM21 [143], GeibingerMM21 [197], HanenKP21 [227], Astrand21 [27], AbohashimaEG21 [2], Astrand0F21 [28], MokhtarzadehTNF20 [367], AntuoriHHEN20 [16], LunardiBLRV20 [346], CauwelaertDS20 [125], BenediktMH20 [77], Lunardi20 [347], GeibingerMM19 [196], MalapertN19 [354], YangSS19 [543], KucukY19 [307], MusliuSS18 [379]... (Total: 52)
Benchmarks	github	Lemos21 [318], KoehlerBFFHPSSS21 [288], Godet21a [204]	TardivoDFMP23 [480], PovedaAA23 [420], JungblutK22 [270], BoudreaultSLQ22 [106], HamPK21 [225], GodetLHS20 [205], BenediktMH20 [77], LunardiBLRV20 [346], Siala15a [459]	abs-2402-00459 [386], YuraszeckMC23 [547], SquillaciPR23 [470], JuvinHHL23 [271], YuraszeckMCCR23 [549], Bit-Monnot23 [86], abs-2306-05747 [482], NaderiRR23 [381], TasselGS23 [481], LuoB22 [349], OuelletQ22 [401], ColT22 [136], YuraszeckMPV22 [548], GeitzGSSW22 [198], MullerMKP22 [375], KovacsTKSG21 [300], GeibingerMM21 [197], VlkHT21 [526], AbohashimaEG21 [2], WangB20 [530], Polo-MejiaALB20 [417], FallahiAC20 [172], Lunardi20 [347], ColT19 [135], BehrensLM19 [67], BadicaBIL19 [32], abs-1901-07914 [68], abs-1911-04766 [195], MurinR19 [376]... (Total: 38)
Benchmarks	gitlab		HeinzNVH22 [242]	abs-2305-19888 [243], BoudreaultSLQ22 [106], AntuoriHHEN21 [17], AntuoriHHEN20 [16]

Table 17: Works for Concepts of Type Benchmarks

Type	Keyword	High	Medium	Low
Benchmarks	industrial instance	LuoB22 [349], AntuoriHHEN20 [16]	BonfiettiZLM16 [102], BonfiettiLBM14 [98]	TasselGS23 [481], EfthymiouY23 [163], PovedaAA23 [420], abs-2306-05747 [482], OujanaAYB22 [402], Mercier-AubinGQ20 [365], NattafM20 [384], GroleazNS20 [218], MalapertN19 [354], BofillGSV15 [94], BofillEGPSV14 [93], BonfiettiM12 [101], LombardiBMB11 [335], BonfiettiLBM11 [96]
Benchmarks	industrial partner	BoudreaultSLQ22 [106], Lunardi20 [347], Dejemeppe16 [148]	LacknerMMWW23 [313], ArmstrongGOS21 [20]	WinterMMW22 [537], VlKHT21 [526], LacknerMMWW21 [312], GroleazNS20a [217], Mercier-AubinGQ20 [365], abs-1911-04766 [195], GeibingerMM19 [196], MossigeGSMC17 [372], HebrardHJMPV16 [233], LipovetzkyBPS14 [329], LimtanyakulS12 [328], Malapert11 [353], KovacsV06 [299], KovacsV04 [298]
Benchmarks	industry partner	BurtLPS15 [113], LipovetzkyBPS14 [329]		WinterMMW22 [537], LuoB22 [349], ArmstrongGOS21 [20], abs-1902-09244 [230]
Benchmarks	instance generator	LacknerMMWW23 [313], LacknerMMWW21 [312]	GoldwaserS18 [209]	abs-2402-00459 [386], ArmstrongGOS21 [20], Lunardi20 [347], abs-1911-04766 [195], GoldwaserS17 [208], YoungFS17 [545], Dejemeppe16 [148], BeniniLMR11 [80], Lombardi10 [333], abs-1009-0347 [446], RuggieroBBMA09 [435], LombardiM09 [336], HeipckeCCS00 [244]
Benchmarks	random instance	LacknerMMWW21 [312], WallaceY20 [529], Dejemeppe16 [148]	LacknerMMWW23 [313], EfthymiouY23 [163], WangB23 [531], LetortCB15 [321], KelbelH11 [281]	Mehdizadeh-Somarin23 [360], OuelletQ22 [401], abs-2211-14492 [472], MullerMKP22 [375], VlKHT21 [526], KlankeBYE21 [286], Godet21a [204], HanenKP21 [227], AntuoriHHEN20 [16], LunardiBLRV20 [346], Lunardi20 [347], BenediktMH20 [77], BenediktSMVH18 [78], FahimiOQ18 [170], Hooker17 [256], MossigeGSMC17 [372], CappartS17 [116], Madi-WambaB16 [350], Siala15a [459], KameugneFSN14 [278], DerrienP14 [154], DerrienPZ14 [155], LetortCB13 [320], LimtanyakulS12 [328], BillautHL12 [85], LetortBC12 [319], BartakS11 [48], Hooker06 [254], Hooker05 [252]... (Total: 32)
Benchmarks	real-life	GurPAE23 [222], SubulanC22 [471], WinterMMW22 [537], Astrand21 [27], HubnerGSV21 [262], QinDCS20 [426], GurEA19 [566], WangMD15 [532], BartakSR10 [49], BartakCS10 [47], Bartak02a [44], MartinPY01 [358]	LacknerMMWW23 [313], OujanaAYB22 [402], Lemos21 [318], Astrand0F21 [28], LacknerMMWW21 [312], KlankeBYE21 [286], Lunardi20 [347], FallahiAC20 [172], abs-1911-04766 [195], PourDERB18 [419], MusliuSS18 [379], BartakV15 [50], GaySS14 [192], LimtanyakulS12 [328], RuggieroBBMA09 [435], Tsang03 [507], NuijtenP98 [396], SimonisC95 [468], DincbasSH90 [158]	PrataAN23 [423], EfthymiouY23 [163], PovedaAA23 [420], IsikYA23 [265], GeitzGSSW22 [198], CampeauG22 [115], LuoB22 [349], ColT22 [136], NaderiBZ22 [380], Teppan22 [484], BoudreaultSLQ22 [106], YunusogluY22 [546], YuraszcekMPV22 [548], GeibingerMM21 [197], Godet21a [204], Bedhief21 [65], abs-2102-08778 [134], CauwelaertDS20 [125], WallaceY20 [529], GodetLHS20 [205], SacramentoSP20 [436], ZarandiASC20 [551], AstrandJZ20 [30], GeibingerMM19 [196], YounespourAKE19 [544], MurinR19 [376], GokgurHO18 [207], Laborie18a [310], HookerH18 [259]... (Total: 77)
Benchmarks	real-world	abs-2305-19888 [243], HeinzNVH22 [242], YunusogluY22 [546], ColT22 [136], Lemos21 [318], KoehlerBFFHPSSS21 [288], Astrand21 [27], GeibingerMM21 [197], Lunardi20 [347], MokhtarzadehTNF20 [367], abs-1911-04766 [195], GeibingerMM19 [196], abs-1902-09244 [230], FrohnerTR19 [183], Dejemeppe16 [148], MelgarejoLS15 [8], EvenSH15 [168], EvenSH15a [169], RendIPHPR12 [429], Lombardi10 [333], MouraSCL08a [373], Beck99 [53]	PrataAN23 [423], IsikYA23 [265], abs-2306-05747 [482], AbreuNP23 [145], TasselGS23 [481], AalianPG23 [1], WangB23 [531], YuraszcekMCCR23 [549], SvanaraB22 [475], OujanaAYB22 [402], LuoB22 [349], MullerMKP22 [375], ArmstrongGOS21 [20], WessenCS20 [535], ZarandiASC20 [551], TangB20 [478], WallaceY20 [529], AstrandJZ20 [30], ParkUJR19 [408], YounespourAKE19 [544], FrimodigS19 [182], RiahiNS018 [430], HookerH18 [259], HoYCLLC18 [249], LaborieRSV18 [311], PourDERB18 [419], ShinBBHO18 [457], TranVNB17 [503], HechingH16 [235]... (Total: 40)	abs-2402-00459 [386], KimCMLLP23 [285], abs-2312-13682 [411], PovedaAA23 [420], JuvinHL23 [272], Bit-Monnot23 [86], TardivoDFMP23 [480], CzerniachowskaWZ23 [138], PerezGSL23 [410], ShaikhK23 [454], BourreauGGLT22 [107], CampeauG22 [115], JungblutK22 [270], AbreuN22 [144], ArmstrongGOS22 [21], SubulanC22 [471], FetgoD22 [176], PohlAK22 [416], BoudreaultSLQ22 [106], GeitzGSSW22 [198], GeibingerKKMMW21 [194], AbohashimaEG21 [2], KovacsTKSG21 [300], Astrand0F21 [28], abs-2102-08778 [134], AbreuAPNM21 [143], HillTV21 [248], BadicaBI20 [31], SacramentoSP20 [436]... (Total: 103)

Table 17: Works for Concepts of Type Benchmarks

Type	Keyword	High	Medium	Low
Benchmarks	supplementary material	FarsiTM22 [174], Lunardi20 [347], MejiaY20 [361]	MontemanniD23 [371], SchuttFSW13 [448]	JuvinHHL23 [271], abs-2306-05747 [482], TasselGS23 [481], WinterMMW22 [537], ColT22 [136], BoudreaultSLQ22 [106], YunusogluY22 [546], KovacsTKSG21 [300], ArmstrongGOS21 [20], AntuoriHHEN21 [17], LacknerMMWW21 [312], MengZRZL20 [363]
Benchmarks	zenodo	LacknerMMWW23 [313], SacramentoSP20 [436]		KimCMLLP23 [285], WinterMMW22 [537], ArmstrongGOS21 [20]



## 6.9 Concept Type Algorithms

Table 18: Works for Concepts of Type Algorithms

Type	Keyword	High	Medium	Low
Algorithms	bi-partite matching			HookerH18 [259], Simonis07 [466], Kumar03 [306], Simonis99 [465]
Algorithms	edge-finder	KameugneFND23 [276], FetgoD22 [176], GingrasQ16 [202], KameugneFSN14 [278], Lombardi10 [333], BaptisteP00 [40]	OuelletQ13 [399], KelbelH11 [281], PapaB98 [407]	BaptisteB18 [37], BonfiettiZLM16 [102], GuSS13 [220], SchuttFSW11 [447], HeckmanB11 [236], BidotVLB09 [84], SchuttFSW09 [445], BeckW07 [64], BeckW05 [63], BeckR03 [61], ValleMGT03 [508], SakkoutW00 [439], BaptisteP97 [39], Zhou97 [560]
Algorithms	edge-finding	KameugneFND23 [276], JuvinHHL23 [271], TardivoDFMP23 [480], OuelletQ22 [401], FetgoD22 [176], CauwelaertDS20 [125], YangSS19 [543], GokgurHO18 [207], BaptisteB18 [37], HookerH18 [259], FahimiOQ18 [170], KreterSS17 [302], Dejemepe16 [148], Derrien15 [153], Kameugne15 [274], GayHS15a [191], KameugneFSN14 [278], OuelletQ13 [399], SchuttFS13a [443], Malapert11 [353], SchuttFSW11 [447], KameugneFSN11 [277], ClercqPBJ11 [131], Vilim11 [521], Vilim09 [519], ArtiouchineB05 [26], VilimBC05 [523], Hooker05 [252], VilimBC04 [522]... (Total: 39)	BoudreaultSLQ22 [106], LaborieRSV18 [311], Tesch18 [488], GingrasQ16 [202], CauwelaertDMS16 [123], Siala15a [459], LetortCB15 [321], DejemepeCS15 [149], LetortCB13 [320], LombardiM12 [340], LetortBC12 [319], BartakSR10 [49], Lombardi10 [333], LiessM08 [323], HoeveGSL07 [512], MonetteDD07 [368], Vilim04 [517], Bartak02 [45], SchildW00 [441], Zhou97 [560]	CampeauG22 [115], Astrand21 [27], Godet21a [204], WallaceY20 [529], OuelletQ18 [400], CauwelaertLS18 [124], NattafAL17 [383], Tesch16 [487], SialaAH15 [460], GayHLS15 [189], DerrienP14 [154], GuSS13 [220], OzturkTHO13 [403], ChuGNSW13 [128], HeinzSB13 [241], LimtanyakulS12 [328], BeldiceanuCDP11 [71], HeckmanB11 [236], KelbelH11 [281], GrimesH11 [213], KovacsB11 [295], SchuttW10 [451], GrimesH10 [212], Vilim09a [520], abs-0907-0939 [413], GrimesHM09 [215], BidotVLB09 [84], BeldiceanuCP08 [72], Malik08 [355]... (Total: 48)
Algorithms	energetic reasoning	TardivoDFMP23 [480], FetgoD22 [176], OuelletQ22 [401], HanenKP21 [227], CauwelaertLS18 [124], OuelletQ18 [400], Tesch18 [488], NattafAL17 [383], Tesch16 [487], GayHS15a [191], NattafAL15 [382], DerrienP14 [154], SchuttFS13a [443], LimtanyakulS12 [328], HeinzS11 [240], Vilim11 [521], Lombardi10 [333], Laborie03 [308]	KameugneFND23 [276], KameugneFGOQ18 [275], SchuttFS13 [444]	IsikYA23 [265], BoudreaultSLQ22 [106], ArmstrongGOS21 [20], YangSS19 [543], GokgurHO18 [207], Laborie18a [310], HookerH18 [259], BofillCSV17 [92], GingrasQ16 [202], LetortCB15 [321], Derrien15 [153], KameugneFSN14 [278], LetortCB13 [320], OuelletQ13 [399], LombardiM12 [340], Malapert11 [353], LahimerLH11 [314], ClercqPBJ11 [131], BeldiceanuCDP11 [71], abs-0907-0939 [413], Vilim09 [519], Vilim09a [520], Limtanyakul07 [327], WolfS05 [539], BaptisteP00 [40], PapaB98 [407]
Algorithms	max-flow		LopesCSM10 [342], MouraSCL08 [374], Muscettola02 [378]	FanXG21 [173], ZarandiASC20 [551], Kumar03 [306]
Algorithms	not-first	KameugneFND23 [276], KameugneFGOQ18 [275], FahimiOQ18 [170], Dejemepe16 [148], GayHS15a [191], SchuttFSW11 [447], Malapert11 [353], VilimBC05 [523], ArtiouchineB05 [26], Demasse03 [151], Beck99 [53]	TardivoDFMP23 [480], FetgoD22 [176], GokgurHO18 [207], HookerH18 [259], OuelletQ18 [400], Kameugne15 [274], DejemepeCS15 [149], KameugneFSN14 [278], OuelletQ13 [399], Lombardi10 [333], SchuttW10 [451], BartakSR10 [49], MonetteDD07 [368], VilimBC04 [522], Wolf03 [538], BeckF00 [59]	JuvinHHL23 [271], OuelletQ22 [401], BoudreaultSLQ22 [106], Astrand21 [27], CauwelaertDS20 [125], CauwelaertLS18 [124], Tesch16 [487], CauwelaertDMS16 [123], ChuGNSW13 [128], LimtanyakulS12 [328], KameugneFSN11 [277], Vilim09 [519], Laborie03 [308], SourdN00 [469]
Algorithms	not-last	TardivoDFMP23 [480], KameugneFND23 [276], FahimiOQ18 [170], KameugneFGOQ18 [275], OuelletQ18 [400], Dejemepe16 [148], GayHS15a [191], Malapert11 [353], SchuttW10 [451], ArtiouchineB05 [26], SchuttWS05 [452], Vilim05 [518], VilimBC05 [523], Vilim04 [517], Wolf03 [538], Demasse03 [151], Beck99 [53]	FetgoD22 [176], CauwelaertDS20 [125], GokgurHO18 [207], Tesch18 [488], Kameugne15 [274], DejemepeCS15 [149], KameugneFSN14 [278], SchuttFS13a [443], OuelletQ13 [399], SchuttFSW11 [447], Vilim11 [521], KameugneFSN11 [277], Lombardi10 [333], BartakSR10 [49], MonetteDD07 [368], VilimBC04 [522], BeckF00 [59]	JuvinHHL23 [271], BoudreaultSLQ22 [106], GeitzGSSW22 [198], OuelletQ22 [401], Astrand21 [27], GodetLHS20 [205], YangSS19 [543], CauwelaertLS18 [124], HookerH18 [259], CauwelaertDMS16 [123], Tesch16 [487], ChuGNSW13 [128], LimtanyakulS12 [328], GrimesHM09 [215], MonetteDH09 [369], Vilim09a [520], Vilim09 [519], BocewiczBB09 [91], WolfS05 [539], Laborie03 [308], Vilim03 [516]

Table 18: Works for Concepts of Type Algorithms

Type	Keyword	High	Medium	Low
Algorithms	sweep	Tesch18 [488], Tesch16 [487], BonfiettiZLM16 [102], SimoninAHL15 [462], NattafAL15 [382], LetortCB15 [321], GayHS15 [190], Derrien15 [153], DerrienPZ14 [155], LetortCB13 [320], SimoninAHL12 [461], LetortBC12 [319], ClercqPBJ11 [131], Malapert11 [353], abs-0907-0939 [413], BeldiceanuP07 [73], Wolf03 [538], BeldiceanuC02 [70]	FahimiOQ18 [170], GoldwaserS18 [209], GayHS15a [191], AronssonBK09 [22], PoderB08 [414], WolfS05 [539]	KameugneFND23 [276], TardivoDFMP23 [480], HebrardALLCMR22 [232], GeitzGSSW22 [198], FetgoD22 [176], OuelletQ22 [401], Godet21a [204], FallahiAC20 [172], KameugneFGOQ18 [275], CauwelaertLS18 [124], Madi-WambaLOBM17 [351], GingrasQ16 [202], Dejemeppe16 [148], BartakV15 [50], EvenSH15 [168], EvenSH15a [169], DerrienP14 [154], BonfiettiLBM14 [98], GaySS14 [192], OuelletQ13 [399], BeldiceanuCDP11 [71], Vilim11 [521], Lombardi10 [333], LombardiM10a [337], BartakSR10 [49], BeldiceanuCP08 [72], KovacsB08 [294], Simonis07 [466], VilimBC05 [523], Vilim04 [517]
Algorithms	time-tabling	TardivoDFMP23 [480], ShaikhK23 [454], OuelletQ22 [401], Lemos21 [318], DemirovicS18 [152], FahimiOQ18 [170], GayHS15a [191], OuelletQ13 [399], Menana11 [362], HeinzS11 [240], Laborie03 [308], ElkhayariGJ02a [165], Wallace96 [528]	Godet21a [204], Astrand21 [27], WallaceY20 [529], ZarandiASC20 [551], abs-1902-01193 [10], HookerH18 [259], CauwelaertLS18 [124], Tesch18 [488], OuelletQ18 [400], Siala15a [459], Derrien15 [153], GayHS15 [190], BofilIGSV15 [94], Vilim11 [521], Demassey03 [151], Bartak02 [45]	PrataAN23 [423], KameugneFND23 [276], LacknerMMWW23 [313], AbreuNP23 [145], TouatBT22 [496], FarsiTM22 [174], SvancaraB22 [475], FetgoD22 [176], GeibingerMM21 [197], MokhtarzadehTNF20 [367], GodetLHS20 [205], LiuLH19 [330], abs-1911-04766 [195], KucukY19 [307], GeibingerMM19 [196], KameugneFGOQ18 [275], AstrandJZ18 [29], BaptisteB18 [37], GoldwaserS18 [209], CohenHB17 [133], YoungFS17 [545], ZarandiKS16 [550], Tesch16 [487], LuoVLBM16 [348], LimBTBB15 [326], WangMD15 [532], VilimLS15 [524], GayHLS15 [189], BofilLEGPSV14 [93]... (Total: 50)

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- [566] Şeyda Gür, Tamer Eren, and Hacı Mehmet Alakaş. Surgical operation scheduling with goal programming and constraint programming: A case study. *Mathematics*, 2019. URL: <https://api.semanticscholar.org/CorpusID:88492001>.

## A Papers and Articles Missing a Local Copy

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

Table 19: PAPER without Local Copy

Key	URL	Authors	Title	Year	Conference /Journal	Cite
ArtiguesHQT21	ArtiguesHQT21	C. Artigues, E. Hebrard, A. Quilliot, H. Toussaint	Multi-Mode RCPSp with Safety Margin Maximization: Models and Algorithms	2021	ICORES 2021	[24]
AntunesABDEGGOL18	AntunesABDEGGOL18	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	2018	ICTAI 2018	[14]
FriedrichFMRST14	FriedrichFMRST14	G. Friedrich, M. Frühstück, V. Mersheeva, A. Ryabokon, M. Sander, A. Starzacher, E. Teppan	Representing Production Scheduling with Constraint Answer Set Programming	2014	GOR 2014	[181]
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	2014	ICRA 2014	[345]
VillaverdeP04	VillaverdeP04	K. Villaverde, E. Pontelli	An Investigation of Scheduling in Distributed Constraint Logic Programming	2004	ISCA 2004	[525]
BoucherBVBL97	BoucherBVBL97	E. Boucher, A. Bachelu, C. Varnier, P. Baptiste, B. Legeard	Multi-criteria Comparison Between Algorithmic, Constraint Logic and Specific Constraint Programming on a Real Scheduling Problem	1997	PACT 1997	[105]
PapeB97	PapeB97	Claude Le Pape, P. Baptiste	A Constraint Programming Library for Preemptive and Non-Preemptive Scheduling	1997	PACT 1997	[406]
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	[269]
Wallace94	Wallace94	M. Wallace	Applying Constraints for Scheduling	1994	Constraint Programming 1994	[527]

Table 20: ARTICLE without Local Copy

Key	URL	Authors	Title	Year	Conference /Journal	Cite
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	2023	Computers Research	[3]
Fatemi-AnarakiMFN22	Fatemi-AnarakiMFN22	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	2022	Omega	[175]
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	Int. J. Prod. Res.	[456]
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	[12]
AntunesABDEGGOL20	AntunesABDEGGOL20	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	2020	Int. J. Artif. Intell. Tools	[15]

Table 20: ARTICLE without Local Copy

Key	URL	Authors	Title	Year	Conference /Journal	Cite
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	[533]
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	2018	Eur. J. Oper. Res.	[303]
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	2016	Manag. Sci.	[90]
HamC16	HamC16	Andy M. Ham, E. Cakici	Flexible job shop scheduling problem with parallel batch processing machines: MIP and CP approaches	2016	Computers Industrial Engineering	[226]
KuB16	KuB16	W. Ku, J. Christopher Beck	Mixed Integer Programming models for job shop scheduling: A computational analysis	2016	Comput. Oper. Res.	[304]
TranAB16	TranAB16	Tony T. Tran, A. Araujo, J. Christopher Beck	Decomposition Methods for the Parallel Machine Scheduling Problem with Setups	2016	INFORMS J. Comput.	[498]
GrimesH15	GrimesH15	D. Grimes, E. Hebrard	Solving Variants of the Job Shop Scheduling Problem Through Conflict-Directed Search	2015	INFORMS J. Comput.	[214]
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	2014	INFORMS J. Comput.	[89]
TerekhovDOB12	TerekhovDOB12	D. Terekhov, Mustafa K. Dogru, U. Özen, J. Christopher Beck	Solving two-machine assembly scheduling problems with inventory constraints	2012	Comput. Ind. Eng.	[485]
BandaSC11	BandaSC11	Maria Garcia de la Banda, Peter J. Stuckey, G. Chu	Solving Talent Scheduling with Dynamic Programming	2011	INFORMS J. Comput.	[146]
HartmannB10	HartmannB10	S. Hartmann, D. Briskorn	A survey of variants and extensions of the resource-constrained project scheduling problem	2010	European Journal of Operational Research	[229]
Jans09	Jans09	Jans, Raf	Solving Lot-Sizing Problems on Parallel Identical Machines Using Symmetry-Breaking Constraints	2009	INFORMS Journal on Computing	[267]
WuBB09	WuBB09	Christine Wei Wu, Kenneth N. Brown, J. Christopher Beck	Scheduling with uncertain durations: Modeling beta-robust scheduling with constraints	2009	Comput. Oper. Res.	[542]
MercierH08	MercierH08	L. Mercier, Pascal Van Hentenryck	Edge Finding for Cumulative Scheduling	2008	INFORMS Journal on Computing	[364]
Hooker07	Hooker07	John N. Hooker	Planning and Scheduling by Logic-Based Benders Decomposition	2007	Operations Research	[255]
HarjunkoskiG02	HarjunkoskiG02	I. Harjunkoski, Ignacio E. Grossmann	Decomposition techniques for multistage scheduling problems using mixed-integer and constraint programming methods	2002	Computers Chemical Engineering	[228]
JainG01	JainG01	V. Jain, Ignacio E. Grossmann	Algorithms for Hybrid MILP/CP Models for a Class of Optimization Problems	2001	INFORMS Journal on Computing	[266]
SimonisCK00	SimonisCK00	H. Simonis, P. Charlier, P. Kay	Constraint Handling in an Integrated Transportation Problem	2000	IEEE Intell. Syst.	[467]
TorresL00	TorresL00	P. Torres, P. Lopez	On Not-First/Not-Last conditions in disjunctive scheduling	2000	European Journal of Operational Research	[495]
BruckerDMNP99	BruckerDMNP99	P. Brucker, A. Drexl, R. Möhring, K. Neumann, E. Pesch	Resource-constrained project scheduling: Notation, classification, models, and methods	1999	European Journal of Operational Research	[111]
KolischS97	KolischS97	R. Kolisch, A. Sprecher	PSPLIB - A project scheduling problem library	1997	European Journal of Operational Research	[289]
CarlierP94	CarlierP94	J. Carlier, E. Pinson	Adjustment of heads and tails for the job-shop problem	1994	European Journal of Operational Research	[121]
Pape94	Pape94	Claude Le Pape	Implementation of resource constraints in ILOG SCHEDULE: a library for the development of constraint-based scheduling systems	1994	Intelligent Systems Engineering	[405]
Taillard93	Taillard93	E. Taillard	Benchmarks for basic scheduling problems	1993	European Journal of Operational Research	[477]
Tay92	Tay92	David B. H. Tay	COPS: A Constraint Programming Approach to Resource-Limited Project Scheduling	1992	Comput. J.	[483]
ApplegateC91	ApplegateC91	D. Applegate, W. Cook	A Computational Study of the Job-Shop Scheduling Problem	1991	ORSA Journal on Computing	[18]
CarlierP89	CarlierP89	J. Carlier, E. Pinson	An Algorithm for Solving the Job-Shop Problem	1989	Management Science	[119]
AdamsBZ88	AdamsBZ88	J. Adams, E. Balas, D. Zawack	The Shifting Bottleneck Procedure for Job Shop Scheduling	1988	Management Science	[6]

## 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 21: 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	[42]	6

Table 22: 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	[291]	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	[343]	4

## 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 23: Unmatched Concepts

Type	Name	CaseSensitive	Revision
Industries	steel making industry		0
ApplicationAreas	day-ahead market		0
ApplicationAreas	ship building		0
ApplicationAreas	vaccine		0
Classification	Modified Generalized Assignment Problem		0
Classification	PP-MS-MMRCPS	Y	1
Classification	Pre-emptive Job-Shop scheduling Problem		0
Classification	Resource-constrained Project Scheduling Problem with Discounted Cashflow		0
Classification	SMSDP	Y	1
Classification	Steel-making and continuous casting		0
Concepts	make to stock		1

## D Works by Author

### D.1 Works by J. Christopher Beck

Table 24: Works from bibtex (Total 46)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	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	[349]	2022	CPAIOR 2022	17	0	28	504	639
ZhangBB22 ZhangBB22	J. Zhang, Giovanni Lo Bianco, J. Christopher Beck	Solving Job-Shop Scheduling Problems with QUBO-Based Specialized Hardware	Yes	[555]	2022	ICAPS 2022	9	0	0	610	647
TangB20 TangB20	Tanya Y. Tang, J. Christopher Beck	CP and Hybrid Models for Two-Stage Batching and Scheduling	Yes	[478]	2020	CPAIOR 2020	16	6	12	570	668
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	[501]	2018	J. Sched.	17	8	26	1322	1445
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	[133]	2017	SAT 2017	17	1	12	384	704
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	[503]	2017	J. Artif. Intell. Res.	68	12	0	1323	1449
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	[504]	2017	IJCAI 2017	5	1	0	584	713
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	[103]	2016	CP 2016	17	21	24	367	716
KuB16 KuB16	W. Ku, J. Christopher Beck	Mixed Integer Programming models for job shop scheduling: A computational analysis	No	[304]	2016	Comput. Res. Oper.	9	119	17	No	1456
LuoVLBM16 LuoVLBM16	R. Luo, Richard Anthony Valenzano, Y. Li, J. Christopher Beck, Sheila A. McIlraith	Using Metric Temporal Logic to Specify Scheduling Problems	Yes	[348]	2016	KR 2016	4	0	0	505	725
TranAB16 TranAB16	Tony T. Tran, A. Araujo, J. Christopher Beck	Decomposition Methods for the Parallel Machine Scheduling Problem with Setups	No	[498]	2016	INFORMS J. Comput.	13	72	28	No	1458
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	[500]	2016	SOCS 2016	9	3	0	582	730
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	[505]	2016	AAAI 2016	9	0	0	585	731
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	[35]	2015	J. Sched.	16	17	59	1171	1460
KoschB14 KoschB14	S. Kosch, J. Christopher Beck	A New MIP Model for Parallel-Batch Scheduling with Non-identical Job Sizes	Yes	[292]	2014	CPAIOR 2014	16	4	18	473	762
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	No	[345]	2014	ICRA 2014	7	16	9	No	764
TerekhovTDB14 TerekhovTDB14	D. Terekhov, Tony T. Tran, Douglas G. Down, J. Christopher Beck	Integrating Queueing Theory and Scheduling for Dynamic Scheduling Problems	Yes	[486]	2014	J. Artif. Intell. Res.	38	12	0	1318	1475
BajestaniB13 BajestaniB13	Maliheh Aramon Bajestani, J. Christopher Beck	Scheduling a Dynamic Aircraft Repair Shop with Limited Repair Resources	Yes	[34]	2013	J. Artif. Intell. Res.	36	14	0	1170	1477
HeinzKB13 HeinzKB13	S. Heinz, W. Ku, J. Christopher Beck	Recent Improvements Using Constraint Integer Programming for Resource Allocation and Scheduling	Yes	[238]	2013	CPAIOR 2013	16	9	15	444	769

Table 24: Works from bibtex (Total 46)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	Pages	Nr Cites	Nr Refs	b	c
HeinzSB13 HeinzSB13	S. Heinz, J. Schulz, J. Christopher Beck	Using dual presolving reductions to reformulate cumulative constraints	Yes	[241]	2013	Constraints An Int. J.	36	7	31	1234	1479
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	[502]	2013	ICAPS 2013	9	0	0	583	776
HeinzB12 HeinzB12	S. Heinz, J. Christopher Beck	Reconsidering Mixed Integer Programming and MIP-Based Hybrids for Scheduling	Yes	[237]	2012	CPAIOR 2012	17	8	21	443	781
TerekhovDOB12 TerekhovDOB12	D. Terekhov, Mustafa K. Dogru, U. Özen, J. Christopher Beck	Solving two-machine assembly scheduling problems with inventory constraints	No	[485]	2012	Comput. Ind. Eng.	15	8	48	No	1487
TranB12 TranB12	Tony T. Tran, J. Christopher Beck	Logic-based Benders Decomposition for Alternative Resource Scheduling with Sequence Dependent Setups	Yes	[499]	2012	ECAI 2012	6	0	0	581	788
BajestaniB11 BajestaniB11	Maliheh Aramon Bajestani, J. Christopher Beck	Scheduling an Aircraft Repair Shop	Yes	[33]	2011	ICAPS 2011	8	0	0	331	790
BeckFW11 BeckFW11	J. Christopher Beck, T. K. Feng, J. Watson	Combining Constraint Programming and Local Search for Job-Shop Scheduling	Yes	[57]	2011	INFORMS J. Comput.	14	43	23	1180	1490
HeckmanB11 HeckmanB11	I. Heckman, J. Christopher Beck	Understanding the behavior of Solution-Guided Search for job-shop scheduling	Yes	[236]	2011	J. Sched.	20	0	22	1232	1494
KovacsB11 KovacsB11	A. Kovács, J. Christopher Beck	A global constraint for total weighted completion time for unary resources	Yes	[295]	2011	Constraints An Int. J.	24	4	26	1250	1496
BidotVLB09 BidotVLB09	J. Bidot, T. Vidal, P. Laborie, J. Christopher Beck	A theoretic and practical framework for scheduling in a stochastic environment	Yes	[84]	2009	J. Sched.	30	58	20	1192	1510
WuBB09 WuBB09	Christine Wei Wu, Kenneth N. Brown, J. Christopher Beck	Scheduling with uncertain durations: Modeling beta-robust scheduling with constraints	No	[542]	2009	Comput. Oper. Res.	9	42	5	No	1516
KovacsB08 KovacsB08	A. Kovács, J. Christopher Beck	A global constraint for total weighted completion time for cumulative resources	Yes	[294]	2008	Eng. Appl. Artif. Intell.	7	5	14	1249	1519
WatsonB08 WatsonB08	J. Watson, J. Christopher Beck	A Hybrid Constraint Programming / Local Search Approach to the Job-Shop Scheduling Problem	Yes	[534]	2008	CPAIOR 2008	15	14	17	600	831
Beck07 Beck07	J. Christopher Beck	Solution-Guided Multi-Point Constructive Search for Job Shop Scheduling	Yes	[55]	2007	J. Artif. Intell. Res.	29	34	0	1177	1523
BeckW07 BeckW07	J. Christopher Beck, N. Wilson	Proactive Algorithms for Job Shop Scheduling with Probabilistic Durations	Yes	[64]	2007	J. Artif. Intell. Res.	50	27	0	1182	1524
KovacsB07 KovacsB07	A. Kovács, J. Christopher Beck	A Global Constraint for Total Weighted Completion Time	Yes	[293]	2007	CPAIOR 2007	15	2	12	474	838
Beck06 Beck06	J. Christopher Beck	An Empirical Study of Multi-Point Constructive Search for Constraint-Based Scheduling	Yes	[54]	2006	ICAPS 2006	10	0	0	341	844
BeckW05 BeckW05	J. Christopher Beck, N. Wilson	Proactive Algorithms for Scheduling with Probabilistic Durations	Yes	[63]	2005	IJCAI 2005	6	0	0	345	853
CarchraeBF05 CarchraeBF05	T. Carchrae, J. Christopher Beck, Eugene C. Freuder	Methods to Learn Abstract Scheduling Models	Yes	[118]	2005	CP 2005	1	0	0	374	854
WuBB05 WuBB05	Christine Wei Wu, Kenneth N. Brown, J. Christopher Beck	Scheduling with Uncertain Start Dates	Yes	[541]	2005	CP 2005	1	0	0	606	869
BeckW04 BeckW04	J. Christopher Beck, N. Wilson	Job Shop Scheduling with Probabilistic Durations	Yes	[62]	2004	ECAI 2004	5	0	0	344	871
BeckPS03 BeckPS03	J. Christopher Beck, P. Prosser, E. Selensky	Vehicle Routing and Job Shop Scheduling: What's the Difference?	Yes	[60]	2003	ICAPS 2003	10	0	0	343	882
BeckR03 BeckR03	J. Christopher Beck, P. Refalo	A Hybrid Approach to Scheduling with Earliness and Tardiness Costs	Yes	[61]	2003	Ann. Oper. Res.	23	29	0	1181	1536
BeckF00 BeckF00	J. Christopher Beck, Mark S. Fox	Dynamic problem structure analysis as a basis for constraint-directed scheduling heuristics	Yes	[59]	2000	Artif. Intell.	51	24	19	1178	1550
Beck99 Beck99	J. Christopher Beck	Texture measurements as a basis for heuristic commitment techniques in constraint-directed scheduling	Yes	[53]	1999	University of Toronto, Canada	418	0	0	2507	??
BeckF98 BeckF98	J. Christopher Beck, Mark S. Fox	A Generic Framework for Constraint-Directed Search and Scheduling	Yes	[58]	1998	AI Mag.	30	0	0	1179	1561



Table 24: Works from bibtex (Total 46)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	Pages	Nr Cites	Nr Refs	b	c
BeckDF97 BeckDF97	J. Christopher Beck, Andrew J. Davenport, Mark S. Fox	Five Pitfalls of Empirical Scheduling Research	Yes	[56]	1997	CP 1997	15	3	12	342	913

## D.2 Works by Michela Milano

Table 25: Works from bibtex (Total 24)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	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	[104]	2018	Sustain. Comput. Informatics Syst.	13	11	22	1197	1432
BonfiettiZLM16 BonfiettiZLM16	A. Bonfietti, A. Zanarini, M. Lombardi, M. Milano	The Multirate Resource Constraint	Yes	[102]	2016	CP 2016	17	0	11	366	715
BridiBLMB16 BridiBLMB16	T. Bridi, A. Bartolini, M. Lombardi, M. Milano, L. Benini	A Constraint Programming Scheduler for Heterogeneous High-Performance Computing Machines	Yes	[109]	2016	IEEE Trans. Paral- lel Distributed Syst.	14	17	22	1199	1452
BridiLBBM16 BridiLBBM16	T. Bridi, M. Lombardi, A. Bartolini, L. Benini, M. Milano	DARDIS: Distributed And Randomized DIspatching and Scheduling	Yes	[110]	2016	ECAI 2016	2	0	0	369	717
LombardiBM15 LombardiBM15	M. Lombardi, A. Bonfietti, M. Milano	Deterministic Estimation of the Expected Makespan of a POS Under Duration Uncertainty	Yes	[334]	2015	CP 2015	16	0	8	499	742
BartoliniBBLM14 BartoliniBBLM14	A. Bartolini, A. Borghesi, T. Bridi, M. Lombardi, M. Milano	Proactive Workload Dispatching on the EURORA Supercomputer	Yes	[51]	2014	CP 2014	16	12	3	339	751
BonfiettiLBM14 BonfiettiLBM14	A. Bonfietti, M. Lombardi, L. Benini, M. Milano	CROSS cyclic resource-constrained scheduling solver	Yes	[98]	2014	Artif. Intell.	28	8	15	1196	1471
BonfiettiLM14 BonfiettiLM14	A. Bonfietti, M. Lombardi, M. Milano	Disregarding Duration Uncertainty in Partial Order Schedules? Yes, We Can!	Yes	[100]	2014	CPAIOR 2014	16	3	12	364	754
BonfiettiLM13 BonfiettiLM13	A. Bonfietti, M. Lombardi, M. Milano	De-Cycling Cyclic Scheduling Problems	Yes	[99]	2013	ICAPS 2013	5	0	0	363	765
LombardiM13 LombardiM13	M. Lombardi, M. Milano	A Min-Flow Algorithm for Minimal Critical Set Detection in Resource Constrained Project Scheduling	Yes	[341]	2013	ICAPS 2013	2	0	0	503	772
BonfiettiLBM12 BonfiettiLBM12	A. Bonfietti, M. Lombardi, L. Benini, M. Milano	Global Cyclic Cumulative Constraint	Yes	[97]	2012	CPAIOR 2012	16	2	11	362	778
BonfiettiM12 BonfiettiM12	A. Bonfietti, M. Milano	A Constraint-based Approach to Cyclic Resource-Constrained Scheduling Problem	Yes	[101]	2012	DC SIAAI 2012	3	0	0	365	779
LombardiM12 LombardiM12	M. Lombardi, M. Milano	Optimal methods for resource allocation and scheduling: a cross-disciplinary survey	Yes	[340]	2012	Constraints An Int. J.	35	39	68	1262	1484
LombardiM12a LombardiM12a	M. Lombardi, M. Milano	A min-flow algorithm for Minimal Critical Set detection in Resource Constrained Project Scheduling	Yes	[339]	2012	Artif. Intell.	10	3	13	1263	1485
BeniniLMR11 BeniniLMR11	L. Benini, M. Lombardi, M. Milano, M. Ruggiero	Optimal resource allocation and scheduling for the CELL BE platform	Yes	[80]	2011	Ann. Oper. Res.	27	18	16	1190	1492
BonfiettiLBM11 BonfiettiLBM11	A. Bonfietti, M. Lombardi, L. Benini, M. Milano	A Constraint Based Approach to Cyclic RCPSP	Yes	[96]	2011	CP 2011	15	3	14	361	791
LombardiBMB11 LombardiBMB11	M. Lombardi, A. Bonfietti, M. Milano, L. Benini	Precedence Constraint Posting for Cyclic Scheduling Problems	Yes	[335]	2011	CPAIOR 2011	17	1	13	500	800
LombardiM10 LombardiM10	M. Lombardi, M. Milano	Constraint Based Scheduling to Deal with Uncertain Durations and Self-Timed Execution	Yes	[338]	2010	CP 2010	15	1	11	502	808
LombardiM10a LombardiM10a	M. Lombardi, M. Milano	Allocation and scheduling of Conditional Task Graphs	Yes	[337]	2010	Artif. Intell.	30	8	24	1261	1505

Table 25: Works from bibtex (Total 24)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	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	[336]	2009	CP 2009	15	7	12	501	817
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	[435]	2009	IEEE Trans. Comput. Aided Des. Integr. Circuits Syst. CPAIOR 2006	14	9	27	1301	1515
BeniniBGM06 BeniniBGM06	L. Benini, D. Bertozzi, A. Guerri, M. Milano	Allocation, Scheduling and Voltage Scaling on Energy Aware MPSoCs	Yes	[79]	2006	CPAIOR 2006	15	18	10	352	845
LammaMM97 LammaMM97	E. Lamma, P. Mello, M. Milano	A distributed constraint-based scheduler	Yes	[315]	1997	Artif. Intell. Eng.	15	11	7	1257	1568
BrusoniCLMMT96 BrusoniCLMMT96	V. Brusoni, L. Console, E. Lamma, P. Mello, M. Milano, P. Terenziani	Resource-Based vs. Task-Based Approaches for Scheduling Problems	Yes	[112]	1996	ISMIS 1996	10	1	9	370	917

### D.3 Works by Andreas Schutt

Table 26: Works from bibtex (Total 24)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	Pages	Nr Cites	Nr Refs	b	c
YangSS19 YangSS19	M. Yang, A. Schutt, Peter J. Stuckey	Time Table Edge Finding with Energy Variables	Yes	[543]	2019	CPAIOR 2019	10	1	14	607	685
GoldwaserS18 GoldwaserS18	A. Goldwaser, A. Schutt	Optimal Torpedo Scheduling	Yes	[209]	2018	J. Artif. Intell. Res.	32	8	0	1224	1437
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	No	[303]	2018	Eur. J. Oper. Res.	15	25	31	No	1440
MusliuSS18 MusliuSS18	N. Musliu, A. Schutt, Peter J. Stuckey	Solver Independent Rotating Workforce Scheduling	Yes	[379]	2018	CPAIOR 2018	17	7	23	523	696
GoldwaserS17 GoldwaserS17	A. Goldwaser, A. Schutt	Optimal Torpedo Scheduling	Yes	[208]	2017	CP 2017	16	0	10	427	706
KreterSS17 KreterSS17	S. Kreter, A. Schutt, Peter J. Stuckey	Using constraint programming for solving RCPSP/max-cal	Yes	[302]	2017	Constraints An Int. J.	31	15	20	1252	1447
YoungFS17 YoungFS17	Kenneth D. Young, T. Feydy, A. Schutt	Constraint Programming Applied to the Multi-Skill Project Scheduling Problem	Yes	[545]	2017	CP 2017	10	6	21	608	714
SchuttS16 SchuttS16	A. Schutt, Peter J. Stuckey	Explaining Producer/Consumer Constraints	Yes	[450]	2016	CP 2016	17	3	23	555	727
SzerediS16 SzerediS16	R. Szeredi, A. Schutt	Modelling and Solving Multi-mode Resource-Constrained Project Scheduling	Yes	[476]	2016	CP 2016	10	9	14	569	728
EvenSH15 EvenSH15	C. Even, A. Schutt, Pascal Van Hentenryck	A Constraint Programming Approach for Non-preemptive Evacuation Scheduling	Yes	[168]	2015	CP 2015	18	3	12	403	736
EvenSH15a EvenSH15a	C. Even, A. Schutt, Pascal Van Hentenryck	A Constraint Programming Approach for Non-Preemptive Evacuation Scheduling	Yes	[169]	2015	CoRR	16	0	0	1212	1461
KreterSS15 KreterSS15	S. Kreter, A. Schutt, Peter J. Stuckey	Modeling and Solving Project Scheduling with Calendars	Yes	[301]	2015	CP 2015	17	7	16	479	740
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	[490]	2014	J. Heuristics	34	19	18	1319	1476
ChuGNSW13 ChuGNSW13	G. Chu, S. Gaspers, N. Narodytska, A. Schutt, T. Walsh	On the Complexity of Global Scheduling Constraints under Structural Restrictions	Yes	[128]	2013	IJCAI 2013	7	0	0	379	766
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	[220]	2013	CPAIOR 2013	7	10	24	436	768
SchuttFS13 SchuttFS13	A. Schutt, T. Feydy, Peter J. Stuckey	Scheduling Optional Tasks with Explanation	Yes	[444]	2013	CP 2013	17	10	20	552	774
SchuttFS13a SchuttFS13a	A. Schutt, T. Feydy, Peter J. Stuckey	Explaining Time-Table-Edge-Finding Propagation for the Cumulative Resource Constraint	Yes	[443]	2013	CPAIOR 2013	17	20	27	553	775

Table 26: Works from bibtex (Total 24)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	Pages	Nr Cites	Nr Refs	b	c
SchuttFSW13 SchuttFSW13	A. Schutt, T. Feydy, Peter J. Stuckey, Mark G. Wallace	Solving RCPSP/max by lazy clause generation	Yes	[448]	2013	J. Sched.	17	43	23	1308	1481
SchuttCSW12 SchuttCSW12	A. Schutt, G. Chu, Peter J. Stuckey, Mark G. Wallace	Maximising the Net Present Value for Resource-Constrained Project Scheduling	Yes	[442]	2012	CPAIOR 2012	17	18	21	551	785
SchuttFSW11 SchuttFSW11	A. Schutt, T. Feydy, Peter J. Stuckey, Mark G. Wallace	Explaining the cumulative propagator	Yes	[447]	2011	Constraints An Int. J.	33	57	23	1307	1499
SchuttW10 SchuttW10	A. Schutt, A. Wolf	A New $O(n^2 \log n)$ Not-First/Not-Last Pruning Algorithm for Cumulative Resource Constraints	Yes	[451]	2010	CP 2010	15	13	14	556	810
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	[446]	2010	CoRR	37	0	0	1345	1509
SchuttFSW09 SchuttFSW09	A. Schutt, T. Feydy, Peter J. Stuckey, M. Wallace	Why Cumulative Decomposition Is Not as Bad as It Sounds	Yes	[445]	2009	CP 2009	16	34	11	554	819
SchuttWS05 SchuttWS05	A. Schutt, A. Wolf, G. Schrader	Not-First and Not-Last Detection for Cumulative Scheduling in $O(n^3 \log n)$	Yes	[452]	2005	INAP 2005	15	6	4	557	866

## D.4 Works by Peter J. Stuckey

Table 27: Works from bibtex (Total 23)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	Pages	Nr Cites	Nr Refs	b	c
YangSS19 YangSS19	M. Yang, A. Schutt, Peter J. Stuckey	Time Table Edge Finding with Energy Variables	Yes	[543]	2019	CPAIOR 2019	10	1	14	607	685
DemirovicS18 DemirovicS18	E. Demirovic, Peter J. Stuckey	Constraint Programming for High School Timetabling: A Scheduling-Based Model with Hot Starts	Yes	[152]	2018	CPAIOR 2018	18	4	16	392	691
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	No	[303]	2018	Eur. J. Oper. Res.	15	25	31	No	1440
MusliuSS18 MusliuSS18	N. Musliu, A. Schutt, Peter J. Stuckey	Solver Independent Rotating Workforce Scheduling	Yes	[379]	2018	CPAIOR 2018	17	7	23	523	696
KreterSS17 KreterSS17	S. Kreter, A. Schutt, Peter J. Stuckey	Using constraint programming for solving RCPSP/max-cal	Yes	[302]	2017	Constraints An Int. J.	31	15	20	1252	1447
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	No	[90]	2016	Manag. Sci.	26	20	36	No	1450
SchuttS16 SchuttS16	A. Schutt, Peter J. Stuckey	Explaining Producer/Consumer Constraints	Yes	[450]	2016	CP 2016	17	3	23	555	727
BurtLPS15 BurtLPS15	Christina N. Burt, N. Lipovetzky, Adrian R. Pearce, Peter J. Stuckey	Scheduling with Fixed Maintenance, Shared Resources and Nonlinear Feederate Constraints: A Mine Planning Case Study	Yes	[113]	2015	CPAIOR 2015	17	0	8	371	734
KreterSS15 KreterSS15	S. Kreter, A. Schutt, Peter J. Stuckey	Modeling and Solving Project Scheduling with Calendars	Yes	[301]	2015	CP 2015	17	7	16	479	740
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	No	[89]	2014	INFORMS J. Comput.	19	15	47	No	1470
LipovetzkyBPS14 LipovetzkyBPS14	N. Lipovetzky, Christina N. Burt, Adrian R. Pearce, Peter J. Stuckey	Planning for Mining Operations with Time and Resource Constraints	Yes	[329]	2014	ICAPS 2014	9	0	0	495	763
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	[220]	2013	CPAIOR 2013	7	10	24	436	768
SchuttFS13 SchuttFS13	A. Schutt, T. Feydy, Peter J. Stuckey	Scheduling Optional Tasks with Explanation	Yes	[444]	2013	CP 2013	17	10	20	552	774

Table 27: Works from bibtex (Total 23)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	Pages	Nr Cites	Nr Refs	b	c
SchuttFS13a SchuttFS13a	A. Schutt, T. Feydy, Peter J. Stuckey	Explaining Time-Table-Edge-Finding Propagation for the Cumulative Resource Constraint	Yes	[443]	2013	CPAIOR 2013	17	20	27	553	775
SchuttFSW13 SchuttFSW13	A. Schutt, T. Feydy, Peter J. Stuckey, Mark G. Wallace	Solving RCPSP/max by lazy clause generation	Yes	[448]	2013	J. Sched.	17	43	23	1308	1481
GuSW12 GuSW12	H. Gu, Peter J. Stuckey, Mark G. Wallace	Maximising the Net Present Value of Large Resource-Constrained Projects	Yes	[221]	2012	CP 2012	15	5	20	437	780
SchuttCSW12 SchuttCSW12	A. Schutt, G. Chu, Peter J. Stuckey, Mark G. Wallace	Maximising the Net Present Value for Resource-Constrained Project Scheduling	Yes	[442]	2012	CPAIOR 2012	17	18	21	551	785
BandaSC11 BandaSC11	Maria Garcia de la Banda, Peter J. Stuckey, G. Chu	Solving Talent Scheduling with Dynamic Programming	No	[146]	2011	INFORMS J. Comput.	18	24	17	No	1488
SchuttFSW11 SchuttFSW11	A. Schutt, T. Feydy, Peter J. Stuckey, Mark G. Wallace	Explaining the cumulative propagator	Yes	[447]	2011	Constraints An Int. J.	33	57	23	1307	1499
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	[446]	2010	CoRR	37	0	0	1345	1509
OhrimenkoSC09 OhrimenkoSC09	O. Ohrimenko, Peter J. Stuckey, M. Codish	Propagation via lazy clause generation	Yes	[398]	2009	Constraints	35	127	15	1288	1514
SchuttFSW09 SchuttFSW09	A. Schutt, T. Feydy, Peter J. Stuckey, M. Wallace	Why Cumulative Decomposition Is Not as Bad as It Sounds	Yes	[445]	2009	CP 2009	16	34	11	554	819
NethercoteSBBDT07 NethercoteSBBDT07	N. Nethercote, Peter J. Stuckey, R. Becket, S. Brand, Gregory J. Duck, G. Tack	MiniZinc: Towards a Standard CP Modelling Language	Yes	[385]	2007	CP 2007	15	344	5	525	842

## D.5 Works by Michele Lombardi

Table 28: Works from bibtex (Total 22)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	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	[104]	2018	Sustain. Comput. Informatics Syst.	13	11	22	1197	1432
CauwelaertLS18 CauwelaertLS18	Sascha Van Cauwelaert, M. Lombardi, P. Schaus	How efficient is a global constraint in practice? - A fair experimental framework	Yes	[124]	2018	Constraints An Int. J.	36	2	39	1204	1433
BonfiettiZLM16 BonfiettiZLM16	A. Bonfietti, A. Zanarini, M. Lombardi, M. Milano	The Multirate Resource Constraint	Yes	[102]	2016	CP 2016	17	0	11	366	715
BridiBLMB16 BridiBLMB16	T. Bridi, A. Bartolini, M. Lombardi, M. Milano, L. Benini	A Constraint Programming Scheduler for Heterogeneous High-Performance Computing Machines	Yes	[109]	2016	IEEE Trans. Parallel Distributed Syst.	14	17	22	1199	1452
BridiLBBM16 BridiLBBM16	T. Bridi, M. Lombardi, A. Bartolini, L. Benini, M. Milano	DARDIS: Distributed And Randomized Dispatching and Scheduling	Yes	[110]	2016	ECAI 2016	2	0	0	369	717
LombardiBM15 LombardiBM15	M. Lombardi, A. Bonfietti, M. Milano	Deterministic Estimation of the Expected Makespan of a POS Under Duration Uncertainty	Yes	[334]	2015	CP 2015	16	0	8	499	742
BartoliniBBLM14 BartoliniBBLM14	A. Bartolini, A. Borghesi, T. Bridi, M. Lombardi, M. Milano	Proactive Workload Dispatching on the EURORA Supercomputer	Yes	[51]	2014	CP 2014	16	12	3	339	751
BonfiettiLBM14 BonfiettiLBM14	A. Bonfietti, M. Lombardi, L. Benini, M. Milano	CROSS cyclic resource-constrained scheduling solver	Yes	[98]	2014	Artif. Intell.	28	8	15	1196	1471
BonfiettiLM14 BonfiettiLM14	A. Bonfietti, M. Lombardi, M. Milano	Disregarding Duration Uncertainty in Partial Order Schedules? Yes, We Can!	Yes	[100]	2014	CPAIOR 2014	16	3	12	364	754
BonfiettiLM13 BonfiettiLM13	A. Bonfietti, M. Lombardi, M. Milano	De-Cycling Cyclic Scheduling Problems	Yes	[99]	2013	ICAPS 2013	5	0	0	363	765

Table 28: Works from bibtex (Total 22)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	Pages	Nr Cites	Nr Refs	b	c
LombardiM13 LombardiM13	M. Lombardi, M. Milano	A Min-Flow Algorithm for Minimal Critical Set Detection in Resource Constrained Project Scheduling	Yes	[341]	2013	ICAPS 2013	2	0	0	503	772
BonfiettiLBM12 BonfiettiLBM12	A. Bonfietti, M. Lombardi, L. Benini, M. Milano	Global Cyclic Cumulative Constraint	Yes	[97]	2012	CPAIOR 2012	16	2	11	362	778
LombardiM12 LombardiM12	M. Lombardi, M. Milano	Optimal methods for resource allocation and scheduling: a cross-disciplinary survey	Yes	[340]	2012	Constraints An Int. J.	35	39	68	1262	1484
LombardiM12a LombardiM12a	M. Lombardi, M. Milano	A min-flow algorithm for Minimal Critical Set detection in Resource Constrained Project Scheduling	Yes	[339]	2012	Artif. Intell.	10	3	13	1263	1485
BeniniLMR11 BeniniLMR11	L. Benini, M. Lombardi, M. Milano, M. Ruggiero	Optimal resource allocation and scheduling for the CELL BE platform	Yes	[80]	2011	Ann. Oper. Res.	27	18	16	1190	1492
BonfiettiLBM11 BonfiettiLBM11	A. Bonfietti, M. Lombardi, L. Benini, M. Milano	A Constraint Based Approach to Cyclic RCPSP	Yes	[96]	2011	CP 2011	15	3	14	361	791
LombardiBMB11 LombardiBMB11	M. Lombardi, A. Bonfietti, M. Milano, L. Benini	Precedence Constraint Posting for Cyclic Scheduling Problems	Yes	[335]	2011	CPAIOR 2011	17	1	13	500	800
Lombardi10 Lombardi10	M. Lombardi	Hybrid Methods for Resource Allocation and Scheduling Problems in Deterministic and Stochastic Environments	Yes	[333]	2010	University of Bologna, Italy	175	0	0	2514	??
LombardiM10 LombardiM10	M. Lombardi, M. Milano	Constraint Based Scheduling to Deal with Uncertain Durations and Self-Timed Execution	Yes	[338]	2010	CP 2010	15	1	11	502	808
LombardiM10a LombardiM10a	M. Lombardi, M. Milano	Allocation and scheduling of Conditional Task Graphs	Yes	[337]	2010	Artif. Intell.	30	8	24	1261	1505
LombardiM09 LombardiM09	M. Lombardi, M. Milano	A Precedence Constraint Posting Approach for the RCPSP with Time Lags and Variable Durations	Yes	[336]	2009	CP 2009	15	7	12	501	817
HoeveGSL07 HoeveGSL07	Willem Jan van Hoeve, Carla P. Gomes, B. Selman, M. Lombardi	Optimal Multi-Agent Scheduling with Constraint Programming	Yes	[512]	2007	AAAI 2007	6	0	0	451	836

## D.6 Works by Emmanuel Hebrard

Table 29: Works from bibtex (Total 17)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	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	[271]	2023	CP 2023	16	0	0	460	621
HebrardALLCMR22 HebrardALLCMR22	E. Hebrard, C. Artigues, P. Lopez, A. Lussion, Steve A. Chien, A. Maillard, Gregg R. Rabideau	An Efficient Approach to Data Transfer Scheduling for Long Range Space Exploration	Yes	[232]	2022	IJCAI 2022	7	0	0	440	636
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	[17]	2021	CP 2021	16	0	0	321	649
ArtiguesHQT21 ArtiguesHQT21	C. Artigues, E. Hebrard, A. Quilliot, H. Toussaint	Multi-Mode RCPSP with Safety Margin Maximization: Models and Algorithms	No	[24]	2021	ICORES 2021	8	0	0	No	651
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	[16]	2020	CP 2020	16	3	8	320	661
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	[205]	2020	AAAI 2020	8	1	0	426	663
HebrardHJMPV16 HebrardHJMPV16	E. Hebrard, M. Huguet, N. Jozefowicz, A. Maillard, C. Pralet, G. Verfaillie	Approximation of the parallel machine scheduling problem with additional unit resources	Yes	[233]	2016	Discret. Appl. Math.	10	9	8	1231	1455

Table 29: Works from bibtex (Total 17)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	Pages	Nr Cites	Nr Refs	b	c
GrimesH15 GrimesH15	D. Grimes, E. Hebrard	Solving Variants of the Job Shop Scheduling Problem Through Conflict-Directed Search	No	[214]	2015	INFORMS J. Comput.	17	12	41	No	1463
SialaAH15 SialaAH15	M. Siala, C. Artigues, E. Hebrard	Two Clause Learning Approaches for Disjunctive Scheduling	Yes	[460]	2015	CP 2015	10	4	17	560	747
SimoninAHL15 SimoninAHL15	G. Simonin, C. Artigues, E. Hebrard, P. Lopez	Scheduling scientific experiments for comet exploration	Yes	[462]	2015	Constraints An Int. J.	23	4	5	1312	1468
BessiereHMQW14 BessiereHMQW14	C. Bessiere, E. Hebrard, M. Ménard, C. Quimper, T. Walsh	Buffered Resource Constraint: Algorithms and Complexity	Yes	[83]	2014	CPAIOR 2014	16	1	3	354	752
BillautHL12 BillautHL12	J. Billaut, E. Hebrard, P. Lopez	Complete Characterization of Near-Optimal Sequences for the Two-Machine Flow Shop Scheduling Problem	Yes	[85]	2012	CPAIOR 2012	15	1	19	355	777
SimoninAHL12 SimoninAHL12	G. Simonin, C. Artigues, E. Hebrard, P. Lopez	Scheduling Scientific Experiments on the Rosetta/Philae Mission	Yes	[461]	2012	CP 2012	15	3	8	561	787
GrimesH11 GrimesH11	D. Grimes, E. Hebrard	Models and Strategies for Variants of the Job Shop Scheduling Problem	Yes	[213]	2011	CP 2011	17	5	18	431	795
GrimesH10 GrimesH10	D. Grimes, E. Hebrard	Job Shop Scheduling with Setup Times and Maximal Time-Lags: A Simple Constraint Programming Approach	Yes	[212]	2010	CPAIOR 2010	15	13	20	430	807
GrimesHM09 GrimesHM09	D. Grimes, E. Hebrard, A. Malapert	Closing the Open Shop: Contradicting Conventional Wisdom	Yes	[215]	2009	CP 2009	9	15	12	432	815
HebrardTW05 HebrardTW05	E. Hebrard, P. Tyler, T. Walsh	Computing Super-Schedules	Yes	[234]	2005	CP 2005	1	0	3	441	861

## D.7 Works by John N. Hooker

Table 30: Works from bibtex (Total 14)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	Pages	Nr Cites	Nr Refs	b	c
Hooker19 Hooker19	John N. Hooker	Logic-Based Benders Decomposition for Large-Scale Optimization	No	[257]	2019	Large Scale Optimization in Supply Chains and Smart Manufacturing	26	8	0	No	??
HookerH18 HookerH18	John N. Hooker, Willem Jan van Hoeve	Constraint programming and operations research	Yes	[259]	2018	Constraints An Int. J.	24	12	189	1239	1439
Hooker17 Hooker17	John N. Hooker	Job Sequencing Bounds from Decision Diagrams	Yes	[256]	2017	CP 2017	14	6	24	454	707
HechingH16 HechingH16	Aliza R. Heching, John N. Hooker	Scheduling Home Hospice Care with Logic-Based Benders Decomposition	Yes	[235]	2016	CPAIOR 2016	11	10	0	442	722
CireCH13 CireCH13	André A. Ciré, E. Coban, John N. Hooker	Mixed Integer Programming vs. Logic-Based Benders Decomposition for Planning and Scheduling	Yes	[130]	2013	CPAIOR 2013	7	3	23	381	767
CobanH10 CobanH10	E. Coban, John N. Hooker	Single-Facility Scheduling over Long Time Horizons by Logic-Based Benders Decomposition	Yes	[132]	2010	CPAIOR 2010	5	9	9	383	805
Hooker07 Hooker07	John N. Hooker	Planning and Scheduling by Logic-Based Benders Decomposition	No	[255]	2007	Operations Research	null	181	19	No	1525
Hooker06 Hooker06	John N. Hooker	An Integrated Method for Planning and Scheduling to Minimize Tardiness	Yes	[254]	2006	Constraints An Int. J.	19	19	13	1238	1528
Hooker05 Hooker05	John N. Hooker	A Hybrid Method for the Planning and Scheduling	Yes	[252]	2005	Constraints An Int. J.	17	68	11	1237	1532
Hooker05a Hooker05a	John N. Hooker	Planning and Scheduling to Minimize Tardiness	Yes	[253]	2005	CP 2005	14	30	10	453	862
Hooker04 Hooker04	John N. Hooker	A Hybrid Method for Planning and Scheduling	Yes	[251]	2004	CP 2004	12	39	9	452	873

Table 30: Works from bibtex (Total 14)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	Pages	Nr Cites	Nr Refs	b	c
HookerO03 HookerO03	John N. Hooker, G. Ottosson	Logic-based Benders decomposition	Yes	[258]	2003	Mathematical Programming CP 2002	28	317	0	1240	1537
HookerY02 HookerY02	John N. Hooker, H. Yan	A Relaxation of the Cumulative Constraint	Yes	[260]	2002	CP 2002	5	8	7	455	894
Hooker00 Hooker00	John N. Hooker	Logic Based Methods for Optimization: Combining Optimization and Constraint Satisfaction	No	[250]	2000	Book	null	185	0	No	??

## D.8 Works by Helmut Simonis

Table 31: Works from bibtex (Total 14)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	Pages	Nr Cites	Nr Refs	b	c
ArmstrongGOS22	E. Armstrong, M. Garraffa, B. O'Sullivan, H. Simonis	A Two-Phase Hybrid Approach for the Hybrid Flexible Flowshop with Transportation Times	Yes	[21]	2022	CPAIOR 2022	13	0	14	324	633
ArmstrongGOS22	E. Armstrong, M. Garraffa, B. O'Sullivan, H. Simonis	The Hybrid Flexible Flowshop with Transportation Times	Yes	[20]	2021	CP 2021	18	1	0	323	650
AntunesABDEGGOL20	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	No	[15]	2020	Int. J. Artif. Intell. Tools	31	0	16	No	1404
AntunesABDEGGOL18	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	No	[14]	2018	ICTAI 2018	8	1	24	No	686
HurleyOS16	B. Hurley, B. O'Sullivan, H. Simonis	ICON Loop Energy Show Case	Yes	[263]	2016	Data Mining and Constraint Programming - Foundations of a Cross-Disciplinary Approach	14	0	16	??	??
GrimesIOS14	D. Grimes, G. Ifrim, B. O'Sullivan, H. Simonis	Analyzing the impact of electricity price forecasting on energy cost-aware scheduling	Yes	[216]	2014	Sustain. Comput. Informatics Syst.	16	6	7	1225	1472
IfrimOS12	G. Ifrim, B. O'Sullivan, H. Simonis	Properties of Energy-Price Forecasts for Scheduling	Yes	[264]	2012	CP 2012	16	6	20	457	782
Simonis07	H. Simonis	Models for Global Constraint Applications	Yes	[466]	2007	Constraints An Int. J.	30	10	17	1313	1527
SimonisCK00	H. Simonis, P. Charlier, P. Kay	Constraint Handling in an Integrated Transportation Problem	No	[467]	2000	IEEE Intell. Syst.	7	11	5	No	1556
Simonis99	H. Simonis	Building Industrial Applications with Constraint Programming	Yes	[465]	1999	CCL'99 1999	39	5	18	564	905
Simonis95	H. Simonis	The CHIP System and Its Applications	Yes	[464]	1995	CP 1995	4	7	3	562	922
Simonis95a	H. Simonis	Application Development with the CHIP System	Yes	[463]	1995	CONTESSA 1995	21	1	12	563	923
SimonisC95	H. Simonis, T. Cornelissens	Modelling Producer/Consumer Constraints	Yes	[468]	1995	CP 1995	14	17	8	565	924
DincbasSH90	M. Dincbas, H. Simonis, Pascal Van Hentenryck	Solving Large Combinatorial Problems in Logic Programming	Yes	[158]	1990	J. Log. Program.	19	86	9	1209	1580

## D.9 Works by Nicolas Beldiceanu

Table 32: Works from bibtex (Total 13)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	Pages	Nr Cites	Nr Refs	b	c
Madi-WambaLOBM17	G. Madi-Wamba, Y. Li, A. Orgerie, N. Beldiceanu, J. Menaud	Green Energy Aware Scheduling Problem in Virtualized Datacenters	Yes	[351]	2017	ICPADS 2017	8	1	8	507	710
Madi-WambaB16	G. Madi-Wamba, N. Beldiceanu	The TaskIntersection Constraint	Yes	[350]	2016	CPAIOR 2016	16	0	0	506	726
LetortCB15	A. Letort, M. Carlsson, N. Beldiceanu	Synchronized sweep algorithms for scalable scheduling constraints	Yes	[321]	2015	Constraints An Int. J.	52	2	14	1258	1465
LetortCB13	A. Letort, M. Carlsson, N. Beldiceanu	A Synchronized Sweep Algorithm for the <i>k-dimensional cumulative</i> Constraint	Yes	[320]	2013	CPAIOR 2013	16	3	10	489	771
LetortBC12	A. Letort, N. Beldiceanu, M. Carlsson	A Scalable Sweep Algorithm for the cumulative Constraint	Yes	[319]	2012	CP 2012	16	18	12	488	783
BeldiceanuCDP11	N. Beldiceanu, M. Carlsson, S. Demasse, E. Poder	New filtering for the <i>cumulative</i> constraint in the context of non-overlapping rectangles	Yes	[71]	2011	Ann. Oper. Res.	24	8	8	1186	1491
ClercqPBJ11	Alexis De Clercq, T. Petit, N. Beldiceanu, N. Jussien	Filtering Algorithms for Discrete Cumulative Problems with Overloads of Resource	Yes	[131]	2011	CP 2011	16	3	11	382	793
BeldiceanuCP08	N. Beldiceanu, M. Carlsson, E. Poder	New Filtering for the cumulative Constraint in the Context of Non-Overlapping Rectangles	Yes	[72]	2008	CPAIOR 2008	15	8	9	348	824
PoderB08	E. Poder, N. Beldiceanu	Filtering for a Continuous Multi-Resources cumulative Constraint with Resource Consumption and Production	Yes	[414]	2008	ICAPS 2008	8	0	0	538	830
BeldiceanuP07	N. Beldiceanu, E. Poder	A Continuous Multi-resources <i>cumulative</i> Constraint with Positive-Negative Resource Consumption-Production	Yes	[73]	2007	CPAIOR 2007	15	4	7	349	833
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	[415]	2004	Eur. J. Oper. Res.	16	7	8	1292	1535
BeldiceanuC02	N. Beldiceanu, M. Carlsson	A New Multi-resource cumulatives Constraint with Negative Heights	Yes	[70]	2002	CP 2002	17	33	9	347	891
AggounB93	A. Aggoun, N. Beldiceanu	Extending CHIP in order to solve complex scheduling and placement problems	Yes	[7]	1993	Mathematical and Computer Modelling	17	187	11	1164	1574

## D.10 Works by Pierre Lopez

Table 33: Works from bibtex (Total 13)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	Pages	Nr Cites	Nr Refs	b	c
JuvinHHL23	C. Juvin, E. Hebrard, L. Houssin, P. Lopez	An Efficient Constraint Programming Approach to Preemptive Job Shop Scheduling	Yes	[271]	2023	CP 2023	16	0	0	460	621
JuvinHL23	C. Juvin, L. Houssin, P. Lopez	Constraint Programming for the Robust Two-Machine Flow-Shop Scheduling Problem with Budgeted Uncertainty	Yes	[272]	2023	CPAIOR 2023	16	0	11	461	622
HebrardALLCMR22	E. Hebrard, C. Artigues, P. Lopez, A. Lussan, Steve A. Chien, A. Maillard, Gregg R. Rabideau	An Efficient Approach to Data Transfer Scheduling for Long Range Space Exploration	Yes	[232]	2022	IJCAI 2022	7	0	0	440	636
Polo-MejiaALB20	O. Polo-Mejia, C. Artigues, P. Lopez, V. Basini	Mixed-integer/linear and constraint programming approaches for activity scheduling in a nuclear research facility	Yes	[417]	2020	Int. J. Prod. Res.	18	8	23	1294	1414
NattafAL17	M. Nattaf, C. Artigues, P. Lopez	Cumulative scheduling with variable task profiles and concave piecewise linear processing rate functions	Yes	[383]	2017	Constraints An Int. J.	18	5	10	1280	1448



Table 33: Works from bibtex (Total 13)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	Pages	Nr Cites	Nr Refs	b	c
NattafAL15 NattafAL15	M. Nattaf, C. Artigues, P. Lopez	A hybrid exact method for a scheduling problem with a continuous resource and energy constraints	Yes	[382]	2015	Constraints An Int. J.	21	14	13	1279	1466
SimoninAHL15 SimoninAHL15	G. Simonin, C. Artigues, E. Hebrard, P. Lopez	Scheduling scientific experiments for comet exploration	Yes	[462]	2015	Constraints An Int. J.	23	4	5	1312	1468
BillautHL12 BillautHL12	J. Billaut, E. Hebrard, P. Lopez	Complete Characterization of Near-Optimal Sequences for the Two-Machine Flow Shop Scheduling Problem	Yes	[85]	2012	CPAIOR 2012	15	1	19	355	777
SimoninAHL12 SimoninAHL12	G. Simonin, C. Artigues, E. Hebrard, P. Lopez	Scheduling Scientific Experiments on the Rosetta/Philae Mission	Yes	[461]	2012	CP 2012	15	3	8	561	787
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	[314]	2011	CPAIOR 2011	14	3	15	486	799
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	[506]	2011	Comput. Ind. Eng.	7	11	17	1324	1501
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	[343]	2000	Eur. J. Control	4	0	0	1265	1553
TorresL00 TorresL00	P. Torres, P. Lopez	On Not-First/Not-Last conditions in disjunctive scheduling	No	[495]	2000	European Journal of Operational Research	null	26	13	No	1558

## D.11 Works by Christian Artigues

Table 34: Works from bibtex (Total 12)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	Pages	Nr Cites	Nr Refs	b	c
PovedaAA23 PovedaAA23	G. Poveda, N. Álvarez, C. Artigues	Partially Preemptive Multi Skill/Mode Resource-Constrained Project Scheduling with Generalized Precedence Relations and Calendars	Yes	[420]	2023	CP 2023	21	0	0	540	627
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	[232]	2022	IJCAI 2022	7	0	0	440	636
PohlAK22 PohlAK22	M. Pohl, C. Artigues, R. Kolisch	Solving the time-discrete winter runway scheduling problem: A column generation and constraint programming approach	Yes	[416]	2022	Eur. J. Oper. Res.	16	4	31	1293	1385
ArtiguesHQT21 ArtiguesHQT21	C. Artigues, E. Hebrard, A. Quilliot, H. Toussaint	Multi-Mode RCPSP with Safety Margin Maximization: Models and Algorithms	No	[24]	2021	ICORES 2021	8	0	0	No	651
Polo-MejiaALB20 Polo-MejiaALB20	O. Polo-Mejia, C. Artigues, P. Lopez, V. Basini	Mixed-integer/linear and constraint programming approaches for activity scheduling in a nuclear research facility	Yes	[417]	2020	Int. J. Prod. Res.	18	8	23	1294	1414
NattafAL17 NattafAL17	M. Nattaf, C. Artigues, P. Lopez	Cumulative scheduling with variable task profiles and concave piecewise linear processing rate functions	Yes	[383]	2017	Constraints An Int. J.	18	5	10	1280	1448
NattafAL15 NattafAL15	M. Nattaf, C. Artigues, P. Lopez	A hybrid exact method for a scheduling problem with a continuous resource and energy constraints	Yes	[382]	2015	Constraints An Int. J.	21	14	13	1279	1466
SialaAH15 SialaAH15	M. Siala, C. Artigues, E. Hebrard	Two Clause Learning Approaches for Disjunctive Scheduling	Yes	[460]	2015	CP 2015	10	4	17	560	747
SimoninAHL15 SimoninAHL15	G. Simonin, C. Artigues, E. Hebrard, P. Lopez	Scheduling scientific experiments for comet exploration	Yes	[462]	2015	Constraints An Int. J.	23	4	5	1312	1468

Table 34: Works from bibtex (Total 12)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	Pages	Nr Cites	Nr Refs	b	c
SimoninAHL12 SimoninAHL12	G. Simonin, C. Artigues, E. Hebrard, P. Lopez	Scheduling Scientific Experiments on the Rosetta/Philae Mission	Yes	[461]	2012	CP 2012	15	3	8	561	787
ArtiguesBF04 ArtiguesBF04	C. Artigues, S. Belmokhtar, D. Feillet	A New Exact Solution Algorithm for the Job Shop Problem with Sequence-Dependent Setup Times	Yes	[23]	2004	CPAIOR 2004	13	16	9	326	870
ArtiguesR00 ArtiguesR00	C. Artigues, F. Roubellat	A polynomial activity insertion algorithm in a multi-resource schedule with cumulative constraints and multiple modes	Yes	[25]	2000	Eur. J. Oper. Res.	20	84	3	1167	1548

## D.12 Works by Pierre Schaus

Table 35: Works from bibtex (Total 12)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	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	[125]	2020	Journal of Scheduling	19	2	21	1203	1408
CappartTSR18 CappartTSR18	Q. Cappart, C. Thomas, P. Schaus, L. Rousseau	A Constraint Programming Approach for Solving Patient Transportation Problems	Yes	[117]	2018	CP 2018	17	6	31	373	690
CauwelaertLS18 CauwelaertLS18	Sascha Van Cauwelaert, M. Lombardi, P. Schaus	How efficient is a global constraint in practice? - A fair experimental framework	Yes	[124]	2018	Constraints An Int. J.	36	2	39	1204	1433
CappartS17 CappartS17	Q. Cappart, P. Schaus	Rescheduling Railway Traffic on Real Time Situations Using Time-Interval Variables	Yes	[116]	2017	CPAIOR 2017	16	2	28	372	703
CauwelaertDMS16 CauwelaertDMS16	Sascha Van Cauwelaert, C. Dejemeppe, J. Monette, P. Schaus	Efficient Filtering for the Unary Resource with Family-Based Transition Times	Yes	[123]	2016	CP 2016	16	1	12	376	718
DejemeppeCS15 DejemeppeCS15	C. Dejemeppe, Sascha Van Cauwelaert, P. Schaus	The Unary Resource with Transition Times	Yes	[149]	2015	CP 2015	16	5	11	390	735
GayHLS15 GayHLS15	S. Gay, R. Hartert, C. Lecoutre, P. Schaus	Conflict Ordering Search for Scheduling Problems	Yes	[189]	2015	CP 2015	9	20	15	413	737
GayHS15 GayHS15	S. Gay, R. Hartert, P. Schaus	Simple and Scalable Time-Table Filtering for the Cumulative Constraint	Yes	[190]	2015	CP 2015	9	10	9	414	738
GayHS15a GayHS15a	S. Gay, R. Hartert, P. Schaus	Time-Table Disjunctive Reasoning for the Cumulative Constraint	Yes	[191]	2015	CPAIOR 2015	16	5	12	415	739
GaySS14 GaySS14	S. Gay, P. Schaus, Vivian De Smedt	Continuous Casting Scheduling with Constraint Programming	Yes	[192]	2014	CP 2014	15	7	11	416	760
HoundjiSWD14 HoundjiSWD14	Vinasétan Ratheil Houndji, P. Schaus, Laurence A. Wolsey, Y. Deville	The StockingCost Constraint	Yes	[261]	2014	CP 2014	16	5	7	456	761
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	[440]	2011	Constraints An Int. J.	23	14	5	1305	1498

## D.13 Works by Roman Barták

Table 36: Works from bibtex (Total 11)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	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	[475]	2022	ICAART 2022	8	0	0	568	643
JelinekB16 JelinekB16	J. Jelínek, R. Barták	Using Constraint Logic Programming to Schedule Solar Array Operations on the International Space Station	Yes	[268]	2016	PADL 2016	10	0	5	458	723
BartakV15 BartakV15	R. Barták, M. Vlk	Reactive Recovery from Machine Breakdown in Production Scheduling with Temporal Distance and Resource Constraints	Yes	[50]	2015	ICAART 2015	12	0	0	338	732
Bartak14 Bartak14	R. Barták	Planning and Scheduling	No	[46]	2014	Computing Handbook, Third Edition: Computer Science and Software Engineering	null	0	0	No	??
BartakS11 BartakS11	R. Barták, Miguel A. Salido	Constraint satisfaction for planning and scheduling problems	Yes	[48]	2011	Constraints An Int. J.	5	17	3	1175	1489
BartakCS10 BartakCS10	R. Barták, O. Cepek, P. Surynek	Discovering implied constraints in precedence graphs with alternatives	Yes	[47]	2010	Ann. Oper. Res.	31	2	9	1174	1502
BartakSR10 BartakSR10	R. Barták, Miguel A. Salido, F. Rossi	New trends in constraint satisfaction, planning, and scheduling: a survey	Yes	[49]	2010	Knowl. Eng. Rev.	31	28	47	1176	1503
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	[523]	2005	Constraints An Int. J.	23	21	5	1326	1533
VilimBC04 VilimBC04	P. Vilím, R. Barták, O. Cepek	Unary Resource Constraint with Optional Activities	Yes	[522]	2004	CP 2004	15	13	4	596	879
Bartak02 Bartak02	R. Barták	Visopt ShopFloor: On the Edge of Planning and Scheduling	Yes	[45]	2002	CP 2002	16	6	4	336	889
Bartak02a Bartak02a	R. Barták	Visopt ShopFloor: Going Beyond Traditional Scheduling	Yes	[44]	2002	ERCIM/CologNet 2002	15	1	9	337	890

## D.14 Works by Philippe Laborie

Table 37: Works from bibtex (Total 11)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	Pages	Nr Cites	Nr Refs	b	c
LunardiBLRV20 LunardiBLRV20	William T. Lunardi, Ernesto G. Birgin, P. Laborie, Débora P. Ronconi, H. Voos	Mixed Integer linear programming and constraint programming models for the online printing shop scheduling problem	Yes	[346]	2020	Comput. Oper. Res.	20	30	18	1267	1410
Laborie18a Laborie18a	P. Laborie	An Update on the Comparison of MIP, CP and Hybrid Approaches for Mixed Resource Allocation and Scheduling	Yes	[310]	2018	CPAIOR 2018	9	18	10	484	695
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	[311]	2018	Constraints An Int. J.	41	148	35	1255	1441
MelgarejoLS15 MelgarejoLS15	P. Aguiar-Melgarejo, P. Laborie, C. Solnon	A Time-Dependent No-Overlap Constraint: Application to Urban Delivery Problems	Yes	[8]	2015	CPAIOR 2015	17	14	17	512	743
VilimLS15 VilimLS15	P. Vilím, P. Laborie, P. Shaw	Failure-Directed Search for Constraint-Based Scheduling	Yes	[524]	2015	CPAIOR 2015	17	31	19	597	748
BidotVLB09 BidotVLB09	J. Bidot, T. Vidal, P. Laborie, J. Christopher Beck	A theoretic and practical framework for scheduling in a stochastic environment	Yes	[84]	2009	J. Sched.	30	58	20	1192	1510
Laborie09 Laborie09	P. Laborie	IBM ILOG CP Optimizer for Detailed Scheduling Illustrated on Three Problems	Yes	[309]	2009	CPAIOR 2009	15	53	2	483	816

Table 37: Works from bibtex (Total 11)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	Pages	Nr Cites	Nr Refs	b	c
BaptisteLPN06 BaptisteLPN06	P. Baptiste, P. Laborie, Claude Le Pape, W. Nuijten	Constraint-Based Scheduling and Planning	No	[38]	2006	Handbook of Constraint Programming	39	30	25	No	??
GodardLN05 GodardLN05	D. Godard, P. Laborie, W. Nuijten	Randomized Large Neighborhood Search for Cumulative Scheduling	Yes	[203]	2005	ICAPS 2005	9	0	0	425	860
Laborie03 Laborie03	P. Laborie	Algorithms for propagating resource constraints in AI planning and scheduling: Existing approaches and new results	Yes	[308]	2003	Artificial Intelligence	38	128	10	1254	1539
FocacciLN00 FocacciLN00	F. Focacci, P. Laborie, W. Nuijten	Solving Scheduling Problems with Setup Times and Alternative Resources	Yes	[177]	2000	AIPS 2000	10	0	0	404	903

## D.15 Works by Petr Vilím

Table 38: Works from bibtex (Total 11)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	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	[311]	2018	Constraints An Int. J.	41	148	35	1255	1441
VilimLS15 VilimLS15	P. Vilím, P. Laborie, P. Shaw	Failure-Directed Search for Constraint-Based Scheduling	Yes	[524]	2015	CPAIOR 2015	17	31	19	597	748
Vilim11 Vilim11	P. Vilím	Timetable Edge Finding Filtering Algorithm for Discrete Cumulative Resources	Yes	[521]	2011	CPAIOR 2011	16	28	6	595	801
Vilim09 Vilim09	P. Vilím	Edge Finding Filtering Algorithm for Discrete Cumulative Resources in $O(kn \log n)$	Yes	[519]	2009	CP 2009	15	25	4	593	821
Vilim09a Vilim09a	P. Vilím	Max Energy Filtering Algorithm for Discrete Cumulative Resources	Yes	[520]	2009	CPAIOR 2009	15	13	4	594	822
Vilim05 Vilim05	P. Vilím	Computing Explanations for the Unary Resource Constraint	Yes	[518]	2005	CPAIOR 2005	14	5	8	592	867
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	[523]	2005	Constraints An Int. J.	23	21	5	1326	1533
Vilim04 Vilim04	P. Vilím	$O(n \log n)$ Filtering Algorithms for Unary Resource Constraint	Yes	[517]	2004	CPAIOR 2004	13	22	5	591	878
VilimBC04 VilimBC04	P. Vilím, R. Barták, O. Cepek	Unary Resource Constraint with Optional Activities	Yes	[522]	2004	CP 2004	15	13	4	596	879
Vilim03 Vilim03	P. Vilím	Computing Explanations for Global Scheduling Constraints	Yes	[516]	2003	CP 2003	1	1	1	590	887
Vilim02 Vilim02	P. Vilím	Batch Processing with Sequence Dependent Setup Times	Yes	[515]	2002	CP 2002	1	6	1	589	897

## D.16 Works by Luca Benini

Table 39: Works from bibtex (Total 10)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	Pages	Nr Cites	Nr Refs	b	c
BorghesiBLMB18	A. Borghesi, A. Bartolini, M. Lombardi, M. Milano, L. Benini	Scheduling-based power capping in high performance computing systems	Yes	[104]	2018	Sustain. Comput. Informatics Syst.	13	11	22	1197	1432
BridiBLMB16	T. Bridi, A. Bartolini, M. Lombardi, M. Milano, L. Benini	A Constraint Programming Scheduler for Heterogeneous High-Performance Computing Machines	Yes	[109]	2016	IEEE Trans. Parallel Distributed Syst.	14	17	22	1199	1452
BridiLBBM16	T. Bridi, M. Lombardi, A. Bartolini, L. Benini, M. Milano	DARDIS: Distributed And Randomized DIspatching and Scheduling	Yes	[110]	2016	ECAI 2016	2	0	0	369	717
BonfiettiLBM14	A. Bonfietti, M. Lombardi, L. Benini, M. Milano	CROSS cyclic resource-constrained scheduling solver	Yes	[98]	2014	Artif. Intell.	28	8	15	1196	1471
BonfiettiLBM12	A. Bonfietti, M. Lombardi, L. Benini, M. Milano	Global Cyclic Cumulative Constraint	Yes	[97]	2012	CPAIOR 2012	16	2	11	362	778
BeniniLMR11	L. Benini, M. Lombardi, M. Milano, M. Ruggiero	Optimal resource allocation and scheduling for the CELL BE platform	Yes	[80]	2011	Ann. Oper. Res.	27	18	16	1190	1492
BonfiettiLBM11	A. Bonfietti, M. Lombardi, L. Benini, M. Milano	A Constraint Based Approach to Cyclic RCPSP	Yes	[96]	2011	CP 2011	15	3	14	361	791
LombardiBMB11	M. Lombardi, A. Bonfietti, M. Milano, L. Benini	Precedence Constraint Posting for Cyclic Scheduling Problems	Yes	[335]	2011	CPAIOR 2011	17	1	13	500	800
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	[435]	2009	IEEE Trans. Comput. Aided Des. Integr. Circuits Syst.	14	9	27	1301	1515
BeniniBGM06	L. Benini, D. Bertozzi, A. Guerri, M. Milano	Allocation, Scheduling and Voltage Scaling on Energy Aware MPSoCs	Yes	[79]	2006	CPAIOR 2006	15	18	10	352	845

## D.17 Works by Alessio Bonfietti

Table 40: Works from bibtex (Total 10)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	Pages	Nr Cites	Nr Refs	b	c
Bonfietti16	A. Bonfietti	A constraint programming scheduling solver for the MPOpt programming environment	Yes	[95]	2016	Intelligenza Artificiale	13	0	19	1195	1451
BonfiettiZLM16	A. Bonfietti, A. Zanarini, M. Lombardi, M. Milano	The Multirate Resource Constraint	Yes	[102]	2016	CP 2016	17	0	11	366	715
LombardiBM15	M. Lombardi, A. Bonfietti, M. Milano	Deterministic Estimation of the Expected Makespan of a POS Under Duration Uncertainty	Yes	[334]	2015	CP 2015	16	0	8	499	742
BonfiettiLBM14	A. Bonfietti, M. Lombardi, L. Benini, M. Milano	CROSS cyclic resource-constrained scheduling solver	Yes	[98]	2014	Artif. Intell.	28	8	15	1196	1471
BonfiettiLM14	A. Bonfietti, M. Lombardi, M. Milano	Disregarding Duration Uncertainty in Partial Order Schedules? Yes, We Can!	Yes	[100]	2014	CPAIOR 2014	16	3	12	364	754
BonfiettiLM13	A. Bonfietti, M. Lombardi, M. Milano	De-Cycling Cyclic Scheduling Problems	Yes	[99]	2013	ICAPS 2013	5	0	0	363	765
BonfiettiLBM12	A. Bonfietti, M. Lombardi, L. Benini, M. Milano	Global Cyclic Cumulative Constraint	Yes	[97]	2012	CPAIOR 2012	16	2	11	362	778
BonfiettiM12	A. Bonfietti, M. Milano	A Constraint-based Approach to Cyclic Resource-Constrained Scheduling Problem	Yes	[101]	2012	DC SIAAI 2012	3	0	0	365	779
BonfiettiLBM11	A. Bonfietti, M. Lombardi, L. Benini, M. Milano	A Constraint Based Approach to Cyclic RCPSP	Yes	[96]	2011	CP 2011	15	3	14	361	791
LombardiBMB11	M. Lombardi, A. Bonfietti, M. Milano, L. Benini	Precedence Constraint Posting for Cyclic Scheduling Problems	Yes	[335]	2011	CPAIOR 2011	17	1	13	500	800

## D.18 Works by Pascal Van Hentenryck

Table 41: Works from bibtex (Total 10)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	Pages	Nr Cites	Nr Refs	b	c
FontaineMH16 FontaineMH16 EvenSH15 EvenSH15	D. Fontaine, Laurent D. Michel, Pascal Van Hentenryck C. Even, A. Schutt, Pascal Van Hentenryck	Parallel Composition of Scheduling Solvers A Constraint Programming Approach for Non-preemptive Evacuation Scheduling	Yes	[178]	2016	CPAIOR 2016	11	3	0	405	719
EvenSH15a EvenSH15a	C. Even, A. Schutt, Pascal Van Hentenryck	A Constraint Programming Approach for Non-Preemptive Evacuation Scheduling	Yes	[168]	2015	CP 2015	18	3	12	403	736
EvenSH15a EvenSH15a	C. Even, A. Schutt, Pascal Van Hentenryck	A Constraint Programming Approach for Non-Preemptive Evacuation Scheduling	Yes	[169]	2015	CoRR	16	0	0	1212	1461
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	[440]	2011	Constraints An Int. J.	23	14	5	1305	1498
MonetteDH09 MonetteDH09	J. Monette, Y. Deville, Pascal Van Hentenryck	Just-In-Time Scheduling with Constraint Programming	Yes	[369]	2009	ICAPS 2009	8	0	0	516	818
DoomsH08 DoomsH08	G. Dooms, Pascal Van Hentenryck	Gap Reduction Techniques for Online Stochastic Project Scheduling	Yes	[159]	2008	CPAIOR 2008	16	1	2	396	825
HentenryckM08 HentenryckM08	Pascal Van Hentenryck, L. Michel	The Steel Mill Slab Design Problem Revisited	Yes	[246]	2008	CPAIOR 2008	5	13	3	447	826
MercierH08 MercierH08	L. Mercier, Pascal Van Hentenryck	Edge Finding for Cumulative Scheduling	No	[364]	2008	INFORMS Journal on Computing	null	32	5	No	1522
HentenryckM04 HentenryckM04	Pascal Van Hentenryck, L. Michel	Scheduling Abstractions for Local Search	Yes	[245]	2004	CPAIOR 2004	16	12	14	446	872
DincbasSH90 DincbasSH90	M. Dincbas, H. Simonis, Pascal Van Hentenryck	Solving Large Combinatorial Problems in Logic Programming	Yes	[158]	1990	J. Log. Program.	19	86	9	1209	1580

## D.19 Works by Philippe Baptiste

Table 42: Works from bibtex (Total 9)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	Pages	Nr Cites	Nr Refs	b	c
BaptisteB18 BaptisteB18	P. Baptiste, N. Bonifas	Redundant cumulative constraints to compute preemptive bounds	Yes	[37]	2018	Discret. Appl. Math.	10	3	13	1172	1431
Baptiste09 Baptiste09	P. Baptiste	Constraint-Based Schedulers, Do They Really Work?	Yes	[36]	2009	CP 2009	1	0	0	332	814
BaptisteLPN06 BaptisteLPN06	P. Baptiste, P. Laborie, Claude Le Pape, W. Nuijten	Constraint-Based Scheduling and Planning	No	[38]	2006	Handbook of Constraint Programming	39	30	25	No	??
ArtiouchineB05 ArtiouchineB05	K. Artiouchine, P. Baptiste	Inter-distance Constraint: An Extension of the All-Different Constraint for Scheduling Equal Length Jobs	Yes	[26]	2005	CP 2005	15	3	11	327	852
BaptistePN01 BaptistePN01	P. Baptiste, Claude Le Pape, W. Nuijten	Constraint-Based Scheduling	No	[41]	2001	Book	null	296	0	No	??
BaptisteP00 BaptisteP00	P. Baptiste, Claude Le Pape	Constraint Propagation and Decomposition Techniques for Highly Disjunctive and Highly Cumulative Project Scheduling Problems	Yes	[40]	2000	Constraints An Int. J.	21	46	0	1173	1549
PapaB98 PapaB98	Claude Le Pape, P. Baptiste	Resource Constraints for Preemptive Job-shop Scheduling	Yes	[407]	1998	Constraints An Int. J.	25	14	0	1291	1564
BaptisteP97 BaptisteP97	P. Baptiste, Claude Le Pape	Constraint Propagation and Decomposition Techniques for Highly Disjunctive and Highly Cumulative Project Scheduling Problems	Yes	[39]	1997	CP 1997	15	8	10	334	912

Table 42: Works from bibtex (Total 9)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	Pages	Nr Cites	Nr Refs	b	c
PapeB97 PapeB97	Claude Le Pape, P. Baptiste	A Constraint Programming Library for Preemptive and Non-Preemptive Scheduling	No	[406]	1997	PACT 1997	20	0	0	No	916

## D.20 Works by Nysret Musliu

Table 43: Works from bibtex (Total 9)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	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	[313]	2023	Constraints An Int. J.	42	0	32	1256	1366
WinterMMW22 WinterMMW22	F. Winter, S. Meiswinkel, N. Musliu, D. Walkiewicz	Modeling and Solving Parallel Machine Scheduling with Contamination Constraints in the Agricultural Industry	Yes	[537]	2022	CP 2022	18	0	0	602	646
GeibingerKKMMW21 GeibingerKKMMW21	T. Geibinger, L. Kletzander, M. Krainz, F. Mischek, N. Musliu, F. Winter	Physician Scheduling During a Pandemic	Yes	[194]	2021	CPAIOR 2021	10	0	6	417	654
GeibingerMM21 GeibingerMM21	T. Geibinger, F. Mischek, N. Musliu	Constraint Logic Programming for Real-World Test Laboratory Scheduling	Yes	[197]	2021	AAAI 2021	9	0	0	419	655
LacknerMMWW21 LacknerMMWW21	M. Lackner, C. Mrkvicka, N. Musliu, D. Walkiewicz, F. Winter	Minimizing Cumulative Batch Processing Time for an Industrial Oven Scheduling Problem	Yes	[312]	2021	CP 2021	18	0	0	485	660
GeibingerMM19 GeibingerMM19	T. Geibinger, F. Mischek, N. Musliu	Investigating Constraint Programming for Real World Industrial Test Laboratory Scheduling	Yes	[196]	2019	CPAIOR 2019	16	6	15	418	678
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	[195]	2019	CoRR	16	0	0	1349	1430
MusliuSS18 MusliuSS18	N. Musliu, A. Schutt, Peter J. Stuckey	Solver Independent Rotating Workforce Scheduling	Yes	[379]	2018	CPAIOR 2018	17	7	23	523	696
KletzanderM17 KletzanderM17	L. Kletzander, N. Musliu	A Multi-stage Simulated Annealing Algorithm for the Torpedo Scheduling Problem	Yes	[287]	2017	CPAIOR 2017	15	1	9	471	708

## D.21 Works by Claude-Guy Quimper

Table 44: Works from bibtex (Total 9)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	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	[106]	2022	CP 2022	16	0	0	368	634
OuelletQ22 OuelletQ22	Y. Ouellet, C. Quimper	A MinCumulative Resource Constraint	Yes	[401]	2022	CPAIOR 2022	17	1	22	532	640
Mercier-AubinGQ20 Mercier-AubinGQ20	A. Mercier-Aubin, J. Gaudreault, C. Quimper	Leveraging Constraint Scheduling: A Case Study to the Textile Industry	Yes	[365]	2020	CPAIOR 2020	13	2	13	513	666
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	[170]	2018	Constraints An Int. J.	22	2	20	1213	1434
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	[275]	2018	CPAIOR 2018	17	1	12	463	694

Table 44: Works from bibtex (Total 9)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	Pages	Nr Cites	Nr Refs	b	c
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	[400]	2018	CPAIOR 2018	18	6	16	531	699
GingrasQ16 GingrasQ16	V. Gingras, C. Quimper	Generalizing the Edge-Finder Rule for the Cumulative Constraint	Yes	[202]	2016	IJCAI 2016	7	0	0	424	721
BessiereHMQW14 BessiereHMQW14	C. Bessiere, E. Hebrard, M. Ménard, C. Quimper, T. Walsh	Buffered Resource Constraint: Algorithms and Complexity	Yes	[83]	2014	CPAIOR 2014	16	1	3	354	752
OuelletQ13 OuelletQ13	P. Ouellet, C. Quimper	Time-Table Extended-Edge-Finding for the Cumulative Constraint	Yes	[399]	2013	CP 2013	16	12	14	530	773

## D.22 Works by Tony T. Tran

Table 45: Works from bibtex (Total 9)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	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	[501]	2018	J. Sched.	17	8	26	1322	1445
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	[503]	2017	J. Artif. Intell. Res.	68	12	0	1323	1449
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	[504]	2017	IJCAI 2017	5	1	0	584	713
TranAB16 TranAB16	Tony T. Tran, A. Araujo, J. Christopher Beck	Decomposition Methods for the Parallel Machine Scheduling Problem with Setups	No	[498]	2016	INFORMS J. Comput.	13	72	28	No	1458
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	[500]	2016	SOCS 2016	9	3	0	582	730
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	[505]	2016	AAAI 2016	9	0	0	585	731
TerekhovTDB14 TerekhovTDB14	D. Terekhov, Tony T. Tran, Douglas G. Down, J. Christopher Beck	Integrating Queueing Theory and Scheduling for Dynamic Scheduling Problems	Yes	[486]	2014	J. Artif. Intell. Res.	38	12	0	1318	1475
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	[502]	2013	ICAPS 2013	9	0	0	583	776
TranB12 TranB12	Tony T. Tran, J. Christopher Beck	Logic-based Benders Decomposition for Alternative Resource Scheduling with Sequence Dependent Setups	Yes	[499]	2012	ECAI 2012	6	0	0	581	788

## D.23 Works by Mats Carlsson



Table 46: Works from bibtex (Total 8)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	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	[535]	2020	CPAIOR 2020	10	2	11	601	670
MossigeGSMC17 MossigeGSMC17	M. Mossige, A. Gotlieb, H. Spieker, H. Meling, M. Carlsson	Time-Aware Test Case Execution Scheduling for Cyber-Physical Systems	Yes	[372]	2017	CP 2017	18	6	33	517	711
LetortCB15 LetortCB15	A. Letort, M. Carlsson, N. Beldiceanu	Synchronized sweep algorithms for scalable scheduling constraints	Yes	[321]	2015	Constraints An Int. J.	52	2	14	1258	1465
LetortCB13 LetortCB13	A. Letort, M. Carlsson, N. Beldiceanu	A Synchronized Sweep Algorithm for the <i>k-dimensional cumulative</i> Constraint	Yes	[320]	2013	CPAIOR 2013	16	3	10	489	771
LetortBC12 LetortBC12	A. Letort, N. Beldiceanu, M. Carlsson	A Scalable Sweep Algorithm for the cumulative Constraint	Yes	[319]	2012	CP 2012	16	18	12	488	783
BeldiceanuCDP11 BeldiceanuCDP11	N. Beldiceanu, M. Carlsson, S. Demassey, E. Poder	New filtering for the <i>cumulative</i> constraint in the context of non-overlapping rectangles	Yes	[71]	2011	Ann. Oper. Res.	24	8	8	1186	1491
BeldiceanuCP08 BeldiceanuCP08	N. Beldiceanu, M. Carlsson, E. Poder	New Filtering for the cumulative Constraint in the Context of Non-Overlapping Rectangles	Yes	[72]	2008	CPAIOR 2008	15	8	9	348	824
BeldiceanuC02 BeldiceanuC02	N. Beldiceanu, M. Carlsson	A New Multi-resource cumulatives Constraint with Negative Heights	Yes	[70]	2002	CP 2002	17	33	9	347	891

## D.24 Works by Claude Le Pape

Table 47: Works from bibtex (Total 8)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	Pages	Nr Cites	Nr Refs	b	c
BaptisteLPN06 BaptisteLPN06	P. Baptiste, P. Laborie, Claude Le Pape, W. Nuijten	Constraint-Based Scheduling and Planning	No	[38]	2006	Handbook of Constraint Programming	39	30	25	No	??
BaptistePN01 BaptistePN01	P. Baptiste, Claude Le Pape, W. Nuijten	Constraint-Based Scheduling	No	[41]	2001	Book	null	296	0	No	??
BaptisteP00 BaptisteP00	P. Baptiste, Claude Le Pape	Constraint Propagation and Decomposition Techniques for Highly Disjunctive and Highly Cumulative Project Scheduling Problems	Yes	[40]	2000	Constraints An Int. J.	21	46	0	1173	1549
NuijtenP98 NuijtenP98	W. Nuijten, Claude Le Pape	Constraint-Based Job Shop Scheduling with \sc Ilog Scheduler	Yes	[396]	1998	J. Heuristics	16	42	0	1287	1563
PapaB98 PapaB98	Claude Le Pape, P. Baptiste	Resource Constraints for Preemptive Job-shop Scheduling	Yes	[407]	1998	Constraints An Int. J.	25	14	0	1291	1564
BaptisteP97 BaptisteP97	P. Baptiste, Claude Le Pape	Constraint Propagation and Decomposition Techniques for Highly Disjunctive and Highly Cumulative Project Scheduling Problems	Yes	[39]	1997	CP 1997	15	8	10	334	912
PapeB97 PapeB97	Claude Le Pape, P. Baptiste	A Constraint Programming Library for Preemptive and Non-Preemptive Scheduling	No	[406]	1997	PACT 1997	20	0	0	No	916
Pape94 Pape94	Claude Le Pape	Implementation of resource constraints in ILOG SCHEDULE: a library for the development of constraint-based scheduling systems	No	[405]	1994	Intelligent Systems Engineering	1	98	0	No	1573

## D.25 Works by Mark Wallace

Table 48: Works from bibtex (Total 8)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	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	[529]	2020	Constraints An Int. J.	19	5	18	1329	1417
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	[231]	2018	CP 2018	18	6	26	439	692
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	[490]	2014	J. Heuristics	34	19	18	1319	1476
SchuttFSW09 SchuttFSW09	A. Schutt, T. Feydy, Peter J. Stuckey, M. Wallace	Why Cumulative Decomposition Is Not as Bad as It Sounds	Yes	[445]	2009	CP 2009	16	34	11	554	819
SakkoutW00 SakkoutW00	Hani El Sakkout, M. Wallace	Probe Backtrack Search for Minimal Perturbation in Dynamic Scheduling	Yes	[439]	2000	Constraints An Int. J.	30	73	0	1304	1554
RodosekW98 RodosekW98	R. Rodosek, M. Wallace	A Generic Model and Hybrid Algorithm for Hoist Scheduling Problems	Yes	[431]	1998	CP 1998	15	19	10	548	910
Wallace96 Wallace96	M. Wallace	Practical Applications of Constraint Programming	Yes	[528]	1996	Constraints An Int. J.	30	87	55	1328	1570
Wallace94 Wallace94	M. Wallace	Applying Constraints for Scheduling	No	[527]	1994	Constraint Programming 1994	19	0	0	No	928

## D.26 Works by Thibaut Feydy

Table 49: Works from bibtex (Total 7)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	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	[545]	2017	CP 2017	10	6	21	608	714
SchuttFS13 SchuttFS13	A. Schutt, T. Feydy, Peter J. Stuckey	Scheduling Optional Tasks with Explanation	Yes	[444]	2013	CP 2013	17	10	20	552	774
SchuttFS13a SchuttFS13a	A. Schutt, T. Feydy, Peter J. Stuckey	Explaining Time-Table-Edge-Finding Propagation for the Cumulative Resource Constraint	Yes	[443]	2013	CPAIOR 2013	17	20	27	553	775
SchuttFSW13 SchuttFSW13	A. Schutt, T. Feydy, Peter J. Stuckey, Mark G. Wallace	Solving RCPSP/max by lazy clause generation	Yes	[448]	2013	J. Sched.	17	43	23	1308	1481
SchuttFSW11 SchuttFSW11	A. Schutt, T. Feydy, Peter J. Stuckey, Mark G. Wallace	Explaining the cumulative propagator	Yes	[447]	2011	Constraints An Int. J.	33	57	23	1307	1499
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	[446]	2010	CoRR	37	0	0	1345	1509
SchuttFSW09 SchuttFSW09	A. Schutt, T. Feydy, Peter J. Stuckey, M. Wallace	Why Cumulative Decomposition Is Not as Bad as It Sounds	Yes	[445]	2009	CP 2009	16	34	11	554	819

## D.27 Works by Diarmuid Grimes

Table 50: Works from bibtex (Total 7)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	Pages	Nr Cites	Nr Refs	b	c
AntunesABDEGGOL20 AntunesABDEGGOL20	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	No	[15]	2020	Int. J. Artif. Intell. Tools	31	0	16	No	1404
AntunesABDEGGOL18 AntunesABDEGGOL18	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	No	[14]	2018	ICTAI 2018	8	1	24	No	686
GrimesH15 GrimesH15	D. Grimes, E. Hebrard	Solving Variants of the Job Shop Scheduling Problem Through Conflict-Directed Search	No	[214]	2015	INFORMS J. Com- put.	17	12	41	No	1463
GrimesIOS14 GrimesIOS14	D. Grimes, G. Ifrim, B. O’Sullivan, H. Simonis	Analyzing the impact of electricity price forecasting on energy cost-aware scheduling	Yes	[216]	2014	Sustain. Comput. Informatics Syst.	16	6	7	1225	1472
GrimesH11 GrimesH11	D. Grimes, E. Hebrard	Models and Strategies for Variants of the Job Shop Scheduling Problem	Yes	[213]	2011	CP 2011	17	5	18	431	795
GrimesH10 GrimesH10	D. Grimes, E. Hebrard	Job Shop Scheduling with Setup Times and Maximal Time-Lags: A Simple Constraint Programming Approach	Yes	[212]	2010	CPAIOR 2010	15	13	20	430	807
GrimesHM09 GrimesHM09	D. Grimes, E. Hebrard, A. Malapert	Closing the Open Shop: Contradicting Conventional Wisdom	Yes	[215]	2009	CP 2009	9	15	12	432	815

## D.28 Works by Zdenek Hanzálek

Table 51: Works from bibtex (Total 7)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	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	[360]	2023	APMS 2023	14	0	0	511	625
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	[243]	2023	CoRR	42	0	0	1352	1372
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	[242]	2022	Comput. Ind. Eng.	16	5	25	1233	1382
VlkHT21 VlkHT21	M. Vlk, Z. Hanzálek, S. Tang	Constraint programming approaches to joint routing and scheduling in time-sensitive networks	Yes	[526]	2021	Comput. Ind. Eng.	14	7	22	1327	1400
BenediktMH20 BenediktMH20	O. Benedikt, I. Módos, Z. Hanzálek	Power of pre-processing: production scheduling with variable energy pricing and power-saving states	Yes	[77]	2020	Constraints An Int. J.	19	1	18	1189	1407
BenediktSMVH18 BenediktSMVH18	O. Benedikt, P. Sucha, I. Módos, M. Vlk, Z. Hanzálek	Energy-Aware Production Scheduling with Power-Saving Modes	Yes	[78]	2018	CPAIOR 2018	10	2	12	351	689
KelbelH11 KelbelH11	J. Kelbel, Z. Hanzálek	Solving production scheduling with earliness/tardiness penalties by constraint programming	Yes	[281]	2011	J. Intell. Manuf.	10	12	14	1245	1495

## D.29 Works by András Kovács

Table 52: Works from bibtex (Total 7)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	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	[295]	2011	Constraints An Int. J.	24	4	26	1250	1496
KovacsK11 KovacsK11	A. Kovács, T. Kis	Constraint programming approach to a bilevel scheduling problem	Yes	[297]	2011	Constraints An Int. J.	24	3	24	1251	1497
KovacsB08 KovacsB08	A. Kovács, J. Christopher Beck	A global constraint for total weighted completion time for cumulative resources	Yes	[294]	2008	Eng. Appl. Artif. Intell.	7	5	14	1249	1519
KovacsB07 KovacsB07	A. Kovács, J. Christopher Beck	A Global Constraint for Total Weighted Completion Time	Yes	[293]	2007	CPAIOR 2007	15	2	12	474	838
KovacsV06 KovacsV06	A. Kovács, J. Váncza	Progressive Solutions: A Simple but Efficient Dominance Rule for Practical RCPSP	Yes	[299]	2006	CPAIOR 2006	13	2	7	478	848
KovacsEKV05 KovacsEKV05	A. Kovács, P. Egri, T. Kis, J. Váncza	Proterv-II: An Integrated Production Planning and Scheduling System	Yes	[296]	2005	CP 2005	1	2	3	475	863
KovacsV04 KovacsV04	A. Kovács, J. Váncza	Completable Partial Solutions in Constraint Programming and Constraint-Based Scheduling	Yes	[298]	2004	CP 2004	15	3	12	477	874

### D.30 Works by Barry O’Sullivan

Table 53: Works from bibtex (Total 7)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	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	[21]	2022	CPAIOR 2022	13	0	14	324	633
ArmstrongGOS21 ArmstrongGOS21	E. Armstrong, M. Garraffa, B. O’Sullivan, H. Simonis	The Hybrid Flexible Flowshop with Transportation Times	Yes	[20]	2021	CP 2021	18	1	0	323	650
AntunesABDEGGOL20 AntunesABDEGGOL20	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	No	[15]	2020	Int. J. Artif. Intell. Tools	31	0	16	No	1404
AntunesABDEGGOL18 AntunesABDEGGOL18	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	No	[14]	2018	ICTAI 2018	8	1	24	No	686
HurleyOS16 HurleyOS16	B. Hurley, B. O’Sullivan, H. Simonis	ICON Loop Energy Show Case	Yes	[263]	2016	Data Mining and Constraint Programming - Foundations of a Cross-Disciplinary Approach	14	0	16	??	??
GrimesIOS14 GrimesIOS14	D. Grimes, G. Ifrim, B. O’Sullivan, H. Simonis	Analyzing the impact of electricity price forecasting on energy cost-aware scheduling	Yes	[216]	2014	Sustain. Comput. Informatics Syst.	16	6	7	1225	1472
IfrimOS12 IfrimOS12	G. Ifrim, B. O’Sullivan, H. Simonis	Properties of Energy-Price Forecasts for Scheduling	Yes	[264]	2012	CP 2012	16	6	20	457	782

### D.31 Works by Gabriela P. Henning

Table 54: Works from bibtex (Total 7)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	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	[390]	2016	Comput. Chem. Eng.	17	18	31	1282	1457
NovasH14 NovasH14	Juan M. Novas, Gabriela P. Henning	Integrated scheduling of resource-constrained flexible manufacturing systems using constraint programming	Yes	[394]	2014	Expert Syst. Appl.	14	35	26	1286	1474
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	[393]	2012	Comput. Chem. Eng.	17	17	15	1285	1486
NovasH10 NovasH10	Juan M. Novas, Gabriela P. Henning	Reactive scheduling framework based on domain knowledge and constraint programming	Yes	[392]	2010	Comput. Chem. Eng. Appl. Artif. Intell.	20	48	19	1284	1507
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	[553]	2010	Eng. Appl. Artif. Intell.	20	33	28	1339	1508
QuirogaZH05 QuirogaZH05	O. Quiroga, L. Zeballos, Gabriela P. Henning	A Constraint Programming Approach to Tool Allocation and Resource Scheduling in FMS	Yes	[428]	2005	ICRA 2005	6	2	7	545	865
ZeballosH05 ZeballosH05	L. Zeballos, Gabriela P. Henning	A Constraint Programming Approach to FMS Scheduling. Consideration of Storage and Transportation Resources	Yes	[552]	2005	Inteligencia Artif.	10	0	0	1338	1534

## D.32 Works by Stefan Heinz

Table 55: Works from bibtex (Total 6)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	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	[238]	2013	CPAIOR 2013	16	9	15	444	769
HeinzSB13 HeinzSB13	S. Heinz, J. Schulz, J. Christopher Beck	Using dual presolving reductions to reformulate cumulative constraints	Yes	[241]	2013	Constraints An Int. J.	36	7	31	1234	1479
HeinzB12 HeinzB12	S. Heinz, J. Christopher Beck	Reconsidering Mixed Integer Programming and MIP-Based Hybrids for Scheduling	Yes	[237]	2012	CPAIOR 2012	17	8	21	443	781
HeinzSSW12 HeinzSSW12	S. Heinz, T. Schlechte, R. Stephan, M. Winkler	Solving steel mill slab design problems	Yes	[239]	2012	Constraints An Int. J.	12	10	9	1235	1482
HeinzS11 HeinzS11	S. Heinz, J. Schulz	Explanations for the Cumulative Constraint: An Experimental Study	Yes	[240]	2011	SEA 2011	10	5	12	445	796
BertholdHLS10 BertholdHLS10	T. Berthold, S. Heinz, Marco E. Lübbecke, Rolf H. Möhring, J. Schulz	A Constraint Integer Programming Approach for Resource-Constrained Project Scheduling	Yes	[82]	2010	CPAIOR 2010	5	28	10	353	804

## D.33 Works by Wim Nuijten

Table 56: Works from bibtex (Total 6)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	Pages	Nr Cites	Nr Refs	b	c
BaptisteLPN06 BaptisteLPN06	P. Baptiste, P. Laborie, Claude Le Pape, W. Nuijten	Constraint-Based Scheduling and Planning	No	[38]	2006	Handbook of Constraint Programming	39	30	25	No	??
GodardLN05 GodardLN05	D. Godard, P. Laborie, W. Nuijten	Randomized Large Neighborhood Search for Cumulative Scheduling	Yes	[203]	2005	ICAPS 2005	9	0	0	425	860
BaptistePN01 BaptistePN01	P. Baptiste, Claude Le Pape, W. Nuijten	Constraint-Based Scheduling	No	[41]	2001	Book	null	296	0	No	??
FocacciLN00 FocacciLN00	F. Focacci, P. Laborie, W. Nuijten	Solving Scheduling Problems with Setup Times and Alternative Resources	Yes	[177]	2000	AIPS 2000	10	0	0	404	903
SourdN00 SourdN00	F. Sourd, W. Nuijten	Multiple-Machine Lower Bounds for Shop-Scheduling Problems	Yes	[469]	2000	INFORMS J. Comput.	12	7	14	1314	1557
NuijtenP98 NuijtenP98	W. Nuijten, Claude Le Pape	Constraint-Based Job Shop Scheduling with \sc Ilog Scheduler	Yes	[396]	1998	J. Heuristics	16	42	0	1287	1563

### D.34 Works by Emmanuel Poder

Table 57: Works from bibtex (Total 6)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	Pages	Nr Cites	Nr Refs	b	c
BeldiceanuCDP11 BeldiceanuCDP11	N. Beldiceanu, M. Carlsson, S. Demasse, E. Poder	New filtering for the <i>cumulative</i> constraint in the context of non-overlapping rectangles	Yes	[71]	2011	Ann. Oper. Res.	24	8	8	1186	1491
abs-0907-0939 abs-0907-0939	T. Petit, E. Poder	The Soft Cumulative Constraint	Yes	[413]	2009	CoRR	12	0	0	1344	1517
BeldiceanuCP08 BeldiceanuCP08	N. Beldiceanu, M. Carlsson, E. Poder	New Filtering for the cumulative Constraint in the Context of Non-Overlapping Rectangles	Yes	[72]	2008	CPAIOR 2008	15	8	9	348	824
PoderB08 PoderB08	E. Poder, N. Beldiceanu	Filtering for a Continuous Multi-Resources cumulative Constraint with Resource Consumption and Production	Yes	[414]	2008	ICAPS 2008	8	0	0	538	830
BeldiceanuP07 BeldiceanuP07	N. Beldiceanu, E. Poder	A Continuous Multi-resources <i>cumulative</i> Constraint with Positive-Negative Resource Consumption-Production	Yes	[73]	2007	CPAIOR 2007	15	4	7	349	833
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	[415]	2004	Eur. J. Oper. Res.	16	7	8	1292	1535

### D.35 Works by Louis-Martin Rousseau

Table 58: Works from bibtex (Total 6)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	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	[117]	2018	CP 2018	17	6	31	373	690

Table 58: Works from bibtex (Total 6)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	Pages	Nr Cites	Nr Refs	b	c
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	[161]	2016	INFORMS J. Comput.	17	56	28	1210	1453
PesantRR15 PesantRR15	G. Pesant, G. Rix, L. Rousseau	A Comparative Study of MIP and CP Formulations for the B2B Scheduling Optimization Problem	Yes	[412]	2015	CPAIOR 2015	16	1	7	537	745
DoulabiRP14 DoulabiRP14	Seyed Hossein Hashemi Doulabi, L. Rousseau, G. Pesant	A Constraint Programming-Based Column Generation Approach for Operating Room Planning and Scheduling	Yes	[160]	2014	CPAIOR 2014	9	3	10	397	758
ChapadosJR11 ChapadosJR11	N. Chapados, M. Joliveau, L. Rousseau	Retail Store Workforce Scheduling by Expected Operating Income Maximization	Yes	[127]	2011	CPAIOR 2011	6	5	12	378	792
HachemiGR11 HachemiGR11	Nizar El Hachemi, M. Gendreau, L. Rousseau	A hybrid constraint programming approach to the log-truck scheduling problem	Yes	[223]	2011	Ann. Oper. Res.	16	32	19	1228	1493

### D.36 Works by Cyrille Dejemeppe

Table 59: Works from bibtex (Total 5)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	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	[125]	2020	Journal of Scheduling	19	2	21	1203	1408
CauwelaertDMS16 CauwelaertDMS16	Sascha Van Cauwelaert, C. Dejemeppe, J. Monette, P. Schaus	Efficient Filtering for the Unary Resource with Family-Based Transition Times	Yes	[123]	2016	CP 2016	16	1	12	376	718
Dejemeppe16 Dejemeppe16	C. Dejemeppe	Constraint programming algorithms and models for scheduling applications	Yes	[148]	2016	Catholic University of Louvain, Louvain-la-Neuve, Belgium	274	0	0	2508	??
DejemeppeCS15 DejemeppeCS15	C. Dejemeppe, Sascha Van Cauwelaert, P. Schaus	The Unary Resource with Transition Times	Yes	[149]	2015	CP 2015	16	5	11	390	735
DejemeppeD14 DejemeppeD14	C. Dejemeppe, Y. Deville	Continuously Degrading Resource and Interval Dependent Activity Durations in Nuclear Medicine Patient Scheduling	Yes	[150]	2014	CPAIOR 2014	9	0	7	391	755

### D.37 Works by Yves Deville

Table 60: Works from bibtex (Total 5)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	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	[150]	2014	CPAIOR 2014	9	0	7	391	755
HoundjiSWD14 HoundjiSWD14	Vinasétan Ratheil Houndji, P. Schaus, Laurence A. Wolsey, Y. Deville	The StockingCost Constraint	Yes	[261]	2014	CP 2014	16	5	7	456	761

Table 60: Works from bibtex (Total 5)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	Pages	Nr Cites	Nr Refs	b	c
SchausHMCMD11	P. Schaus, Pascal Van Hentenryck, J. Monette,	Solving Steel Mill Slab Problems with	Yes	[440]	2011	Constraints An Int.	23	14	5	1305	1498
SchausHMCMD11	C. Coffrin, L. Michel, Y. Deville	constraint-based techniques: CP, LNS, and CBLS				J.					
MonetteDH09	J. Monette, Y. Deville, Pascal Van Hentenryck	Just-In-Time Scheduling with Constraint	Yes	[369]	2009	ICAPS 2009	8	0	0	516	818
MonetteDH09		Programming									
MonetteDD07	J. Monette, Y. Deville, P. Dupont	A Position-Based Propagator for the Open-Shop	Yes	[368]	2007	CPAIOR 2007	14	0	12	515	841
MonetteDD07		Problem									

## D.38 Works by Mark G. Wallace

Table 61: Works from bibtex (Total 5)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	Pages	Nr Cites	Nr Refs	b	c
SchuttFSW13	A. Schutt, T. Feydy, Peter J. Stuckey, Mark G.	Solving RCPSP/max by lazy clause generation	Yes	[448]	2013	J. Sched.	17	43	23	1308	1481
SchuttFSW13	Wallace										
GuSW12 GuSW12	H. Gu, Peter J. Stuckey, Mark G. Wallace	Maximising the Net Present Value of Large	Yes	[221]	2012	CP 2012	15	5	20	437	780
		Resource-Constrained Projects									
SchuttCSW12	A. Schutt, G. Chu, Peter J. Stuckey, Mark G.	Maximising the Net Present Value for	Yes	[442]	2012	CPAIOR 2012	17	18	21	551	785
SchuttCSW12	Wallace	Resource-Constrained Project Scheduling									
SchuttFSW11	A. Schutt, T. Feydy, Peter J. Stuckey, Mark G.	Explaining the cumulative propagator	Yes	[447]	2011	Constraints An Int.	33	57	23	1307	1499
SchuttFSW11	Wallace					J.					
abs-1009-0347	A. Schutt, T. Feydy, Peter J. Stuckey, Mark G.	Solving the Resource Constrained Project	Yes	[446]	2010	CoRR	37	0	0	1345	1509
abs-1009-0347	Wallace	Scheduling Problem with Generalized Precedences									
		by Lazy Clause Generation									

## D.39 Works by Roger Kameugne

Table 62: Works from bibtex (Total 5)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	Pages	Nr Cites	Nr Refs	b	c
KameugneFND23	R. Kameugne, Séverine Betmbe Fetgo, T.	Horizontally Elastic Edge Finder Rule for	Yes	[276]	2023	CP 2023	17	0	0	464	623
KameugneFND23	Noulamo, Clémentin Tayou Djamégni	Cumulative Constraint Based on Slack and Density									
KameugneFGOQ18	R. Kameugne, Séverine Betmbe Fetgo, V.	Horizontally Elastic Not-First/Not-Last Filtering	Yes	[275]	2018	CPAIOR 2018	17	1	12	463	694
KameugneFGOQ18	Gingras, Y. Ouellet, C. Quimper	Algorithm for Cumulative Resource Constraint									
Kameugne15	R. Kameugne	Propagation techniques of resource constraint for	Yes	[274]	2015	Constraints An Int.	2	0	0	1243	1464
Kameugne15		cumulative scheduling				J.					
KameugneFSN14	R. Kameugne, Laure Pauline Fotso, Joseph D.	A quadratic edge-finding filtering algorithm for	Yes	[278]	2014	Constraints An Int.	27	6	10	1244	1473
KameugneFSN14	Scott, Y. Ngo-Kateu	cumulative resource constraints				J.					
KameugneFSN11	R. Kameugne, Laure Pauline Fotso, Joseph D.	A Quadratic Edge-Finding Filtering Algorithm for	Yes	[277]	2011	CP 2011	15	7	9	465	798
KameugneFSN11	Scott, Y. Ngo-Kateu	Cumulative Resource Constraints									

## D.40 Works by Juan M. Novas



Table 63: Works from bibtex (Total 5)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	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	[391]	2019	Comput. Ind. Eng.	13	30	29	1283	1423
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	[390]	2016	Comput. Chem. Eng.	17	18	31	1282	1457
NovasH14 NovasH14	Juan M. Novas, Gabriela P. Henning	Integrated scheduling of resource-constrained flexible manufacturing systems using constraint programming	Yes	[394]	2014	Expert Syst. Appl.	14	35	26	1286	1474
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	[393]	2012	Comput. Chem. Eng.	17	17	15	1285	1486
NovasH10 NovasH10	Juan M. Novas, Gabriela P. Henning	Reactive scheduling framework based on domain knowledge and constraint programming	Yes	[392]	2010	Comput. Chem. Eng.	20	48	19	1284	1507

## D.41 Works by Kenneth N. Brown

Table 64: Works from bibtex (Total 5)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	Pages	Nr Cites	Nr Refs	b	c
AntunesABDEGGOL20 AntunesABDEGGOL20	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	No	[15]	2020	Int. J. Artif. Intell. Tools	31	0	16	No	1404
AntunesABDEGGOL18 AntunesABDEGGOL18	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	No	[14]	2018	ICTAI 2018	8	1	24	No	686
MurphyMB15 MurphyMB15	Seán Óg Murphy, O. Manzano, Kenneth N. Brown	Design and Evaluation of a Constraint-Based Energy Saving and Scheduling Recommender System	Yes	[377]	2015	CP 2015	17	1	20	521	744
WuBB09 WuBB09	Christine Wei Wu, Kenneth N. Brown, J. Christopher Beck	Scheduling with uncertain durations: Modeling beta-robust scheduling with constraints	No	[542]	2009	Comput. Res. Oper.	9	42	5	No	1516
WuBB05 WuBB05	Christine Wei Wu, Kenneth N. Brown, J. Christopher Beck	Scheduling with Uncertain Start Dates	Yes	[541]	2005	CP 2005	1	0	0	606	869

## D.42 Works by Mohamed Siala

Table 65: Works from bibtex (Total 5)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	Pages	Nr Cites	Nr Refs	b	c
AntunesABDEGGOL20 AntunesABDEGGOL20	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	No	[15]	2020	Int. J. Artif. Intell. Tools	31	0	16	No	1404
AntunesABDEGGOL18 AntunesABDEGGOL18	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	No	[14]	2018	ICTAI 2018	8	1	24	No	686
Siala15 Siala15	M. Siala	Search, propagation, and learning in sequencing and scheduling problems	Yes	[458]	2015	Constraints An Int. J.	2	4	0	1311	1467
Siala15a Siala15a	M. Siala	Search, propagation, and learning in sequencing and scheduling problems. (Recherche, propagation et apprentissage dans les problèmes de séquençement et d’ordonnancement)	Yes	[459]	2015	INSA Toulouse, France	199	0	0	2519	??
SialaAH15 SialaAH15	M. Siala, C. Artigues, E. Hebrard	Two Clause Learning Approaches for Disjunctive Scheduling	Yes	[460]	2015	CP 2015	10	4	17	560	747

## D.43 Works by Marek Vlk

Table 66: Works from bibtex (Total 5)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	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	[243]	2023	CoRR	42	0	0	1352	1372
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	[242]	2022	Comput. Ind. Eng.	16	5	25	1233	1382
VlkHT21 VlkHT21	M. Vlk, Z. Hanzálek, S. Tang	Constraint programming approaches to joint routing and scheduling in time-sensitive networks	Yes	[526]	2021	Comput. Ind. Eng.	14	7	22	1327	1400
BenediktSMVH18 BenediktSMVH18	O. Benedikt, P. Sucha, I. Módos, M. Vlk, Z. Hanzálek	Energy-Aware Production Scheduling with Power-Saving Modes	Yes	[78]	2018	CPAIOR 2018	10	2	12	351	689
BartakV15 BartakV15	R. Barták, M. Vlk	Reactive Recovery from Machine Breakdown in Production Scheduling with Temporal Distance and Resource Constraints	Yes	[50]	2015	ICAART 2015	12	0	0	338	732

## D.44 Works by Nic Wilson

Table 67: Works from bibtex (Total 5)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	Pages	Nr Cites	Nr Refs	b	c
AntunesABDEGGOL20 AntunesABDEGGOL20	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	No	[15]	2020	Int. J. Artif. Intell. Tools	31	0	16	No	1404
AntunesABDEGGOL18 AntunesABDEGGOL18	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	No	[14]	2018	ICTAI 2018	8	1	24	No	686
BeckW07 BeckW07	J. Christopher Beck, N. Wilson	Proactive Algorithms for Job Shop Scheduling with Probabilistic Durations	Yes	[64]	2007	J. Artif. Intell. Res.	50	27	0	1182	1524
BeckW05 BeckW05	J. Christopher Beck, N. Wilson	Proactive Algorithms for Scheduling with Probabilistic Durations	Yes	[63]	2005	IJCAI 2005	6	0	0	345	853
BeckW04 BeckW04	J. Christopher Beck, N. Wilson	Job Shop Scheduling with Probabilistic Durations	Yes	[62]	2004	ECAI 2004	5	0	0	344	871

## D.45 Works by Armin Wolf

Table 68: Works from bibtex (Total 5)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	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	[198]	2022	CPAIOR 2022	18	0	24	420	635
SchuttW10 SchuttW10	A. Schutt, A. Wolf	A New $O(n^2 \log n)$ Not-First/Not-Last Pruning Algorithm for Cumulative Resource Constraints	Yes	[451]	2010	CP 2010	15	13	14	556	810
SchuttWS05 SchuttWS05	A. Schutt, A. Wolf, G. Schrader	Not-First and Not-Last Detection for Cumulative Scheduling in $O(n^3 \log n)$	Yes	[452]	2005	INAP 2005	15	6	4	557	866
WolfS05 WolfS05	A. Wolf, G. Schrader	$O(n \log n)$ Overload Checking for the Cumulative Constraint and Its Application	Yes	[539]	2005	INAP 2005	14	6	6	604	868
Wolf03 Wolf03	A. Wolf	Pruning while Sweeping over Task Intervals	Yes	[538]	2003	CP 2003	15	11	7	603	888

## E Other Works

## E.1 Books from bibtex

Table 69: Works from bibtex (Total 2)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	Pages	Nr Cites	Nr Refs	b	c
BaptistePN01	P. Baptiste, Claude Le Pape, W. Nuijten	Constraint-Based Scheduling	No	[41]	2001	Book	null	296	0	No	??
BaptistePN01											
Hooker00 Hooker00	John N. Hooker	Logic Based Methods for Optimization: Combining Optimization and Constraint Satisfaction	No	[250]	2000	Book	null	185	0	No	??

## E.2 PhDThesis from bibtex

Table 70: Works from bibtex (Total 14)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	Pages	Nr Cites	Nr Refs	b	c
Astrand21 Astrand21	M. Åstrand	Short-term Underground Mine Scheduling: An Industrial Application of Constraint Programming	Yes	[27]	2021	Royal Institute of Technology, Stockholm, Sweden	142	0	0	2506	??
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	[204]	2021	IMT Atlantique Bretagne Pays de la Loire, Brest, France	168	0	0	2511	??
Lemos21 Lemos21	Alexandre Duarte de Almeida Lemos	Solving scheduling problems under disruptions	Yes	[318]	2021	UNIVERSIDADE DE LISBOA INSTITUTO SUPERIOR TÉCNICO	188	0	0	2513	??
Lunardi20 Lunardi20	Willian Tessaro Lunardi	A Real-World Flexible Job Shop Scheduling Problem With Sequencing Flexibility: Mathematical Programming, Constraint Programming, and Metaheuristics	Yes	[347]	2020	University of Luxembourg, Luxembourg City, Luxembourg	181	0	0	2515	??
Dejemeppe16 Dejemeppe16	C. Dejemeppe	Constraint programming algorithms and models for scheduling applications	Yes	[148]	2016	Catholic University of Louvain, Louvain-la-Neuve, Belgium	274	0	0	2508	??
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	[153]	2015	École des mines de Nantes, France	113	0	0	2510	??
Siala15a Siala15a	M. Siala	Search, propagation, and learning in sequencing and scheduling problems. (Recherche, propagation et apprentissage dans les problèmes de séquençement et d'ordonnancement)	Yes	[459]	2015	INSA Toulouse, France	199	0	0	2519	??
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	[353]	2011	École des mines de Nantes, France	194	0	0	2516	??
Menana11 Menana11	J. Menana	Automates et programmation par contraintes pour la planification de personnel. (Automata and Constraint Programming for Personnel Scheduling Problems)	Yes	[362]	2011	University of Nantes, France	148	0	0	2518	??
Lombardi10 Lombardi10	M. Lombardi	Hybrid Methods for Resource Allocation and Scheduling Problems in Deterministic and Stochastic Environments	Yes	[333]	2010	University of Bologna, Italy	175	0	0	2514	??
Malik08 Malik08	Abid M. Malik	Constraint Programming Techniques for Optimal Instruction Scheduling	Yes	[355]	2008	University of Waterloo, Ontario, Canada	151	0	0	2517	??
Demasse03 Demasse03	S. Demasse	Méthodes hybrides de programmation par contraintes et programmation linéaire pour le problème d'ordonnancement de projet à contraintes de ressources. (Hybrid Constraint Programming-Integer Linear Programming approaches for the Resource-Constrained Project Scheduling Problem)	Yes	[151]	2003	University of Avignon, France	148	0	0	2509	??
Layfield02 Layfield02	Colin J. Layfield	A constraint programming pre-processor for duty scheduling	Yes	[317]	2002	University of Leeds, UK	230	0	0	2512	??

Table 70: Works from bibtex (Total 14)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	Pages	Nr Cites	Nr Refs	b	c
Beck99 Beck99	J. Christopher Beck	Texture measurements as a basis for heuristic commitment techniques in constraint-directed scheduling	Yes	[53]	1999	University of Toronto, Canada	418	0	0	2507	??

Table 71: Automatically Extracted THESIS Properties (Requires Local Copy)

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
Astrand21 [27]	142	distributed, due-date, job-shop, transportation, flow-shop, resource, scheduling, make-span, open-shop, completion-time, task, machine, job, re-scheduling, precedence, order, inventory, tardiness, activity, setup-time, preempt, release-date, sequence dependent setup	RCPSP, single machine, parallel machine	disjunctive, cumulative, alldifferent, cycle, circuit	C++, Julia	OZ, OPL, Cplex, Gecode	satellite, drone, agriculture, semiconductor, robot	potash industry, mineral industry, mining industry	benchmark, real-world, generated instance, real-life	not-first, time-tabling, edge-finding, not-last	2492	??
Beck99 [53]	418	transportation, due-date, stock level, multi-agent, order, distributed, preempt, scheduling, inventory, precedence, make-span, re-scheduling, machine, resource, job, release-date, job-shop, tardiness, task, producer/consumer, activity	single machine	circuit, disjunctive, cumulative	Prolog, C++	CHIP, Ilog Solver, Ilog Scheduler, OPL	robot, medical		benchmark, real-world	not-first, not-last, edge-finding	2505	??
Dejemeppe16 [148]	274	completion-time, re-scheduling, make-span, sequence dependent setup, resource, open-shop, order, setup-time, job, activity, earliness, due-date, continuous-process, task, machine, preempt, release-date, flow-shop, job-shop, batch process, lateness, tardiness, precedence, scheduling	psplib, PTC, single machine, RCPSP	alldifferent, disjunctive, cycle, cumulative, circuit		CHIP, OR-Tools, CPO, Ilog Solver, OPL, OZ, Gecode	medical, patient, super-computer, nurse, robot, physician, container terminal		generated instance, benchmark, industrial partner, random instance, real-world, instance generator, bitbucket	not-last, not-first, sweep, edge-finding	2496	??
Demasse03 [151]	148	job, precedence, release-date, resource, job-shop, open-shop, scheduling, preempt, activity, flow-shop, task, order, machine	single machine, psplib, CuSP, RCPSP, TCSP	circuit, cumulative, disjunctive, cycle	C++	Claire, Cplex, Ilog Solver, OZ			benchmark	not-last, time-tabling, not-first, edge-finding	2503	??
Derrien15 [153]	113	job-shop, resource, scheduling, make-span, precedence, order, task, machine, job, activity, preempt, open-shop	psplib, CuSP	alldifferent, circuit, disjunctive, cumulative		Claire, Choco Solver	robot		benchmark	time-tabling, energetic reasoning, edge-finding, sweep	2497	??
Godet21a [204]	168	flow-shop, precedence, open-shop, cmax, release-date, preempt, due-date, make-span, transportation, order, scheduling, machine, lazy clause generation, distributed, resource, completion-time, lateness, job, job-shop, task, activity	single machine, JSSP, PMSP, RCPSP, psplib, parallel machine	bin-packing, disjunctive, alldifferent, cycle, cumulative		MiniZinc, CHIP, OR-Tools, OZ, OPL, Claire, Choco Solver, Chuffed	satellite, robot, railway	electricity industry	generated instance, real-life, benchmark, github, random instance	time-tabling, sweep, edge-finding	2493	??
Layfield02 [317]	230				C	OZ, Z3, OPL					2504	??



Table 71: Automatically Extracted THESIS Properties (Requires Local Copy)

Work	Pages	Concepts	Classification	Constraints	Prog Languages	CP Systems	Areas	Industries	Benchmarks	Algorithm	a	c
Lemos21 [318]	188	transportation, precedence, job-shop, multi-agent, machine, task, re-scheduling, job, order, distributed, resource, scheduling	RCPSP	cycle, alldifferent, cumulative	Java, C++, Python	OZ, Cplex, Gurobi, OPL	medical, railway, crew-scheduling, surgery, COVID		real-world, Roadeff, github, real-life, benchmark	time-tabling	2494	??
Lombardi10 [333]	175	make-span, re-scheduling, inventory, job, precedence, lazy clause generation, release-date, distributed, tardiness, resource, setup-time, job-shop, due-date, scheduling, preempt, activity, task, order, completion-time, machine	single machine, SCC, CTW, RCPSP, TCSP	cumulative, disjunctive, cycle, table constraint, span constraint, bin-packing, circuit	C	OPL, Cplex, Ilog Solver, OZ	aircraft, semiconductor, pipeline, medical, automotive		real-world, generated instance, instance generator, benchmark, real-life	not-last, time-tabling, sweep, not-first, edge-finder, edge-finding, energetic reasoning	2501	??
Lunardi20 [347]	181	re-scheduling, setup-time, release-date, no preempt, due-date, preempt, job-shop, batch process, transportation, flow-shop, resource, scheduling, make-span, open-shop, task, precedence, order, cmax, completion-time, machine, tardiness, job, lateness, activity	FJS, parallel machine, single machine	endBeforeStart, alldifferent, disjunctive, cycle, noOverlap	Python	CPO, OPL, Cplex	robot		supplementary material, industrial partner, instance generator, benchmark, random instance, real-world, generated instance, real-life, github		2495	??
Malapert11 [353]	194	flow-time, task, order, lateness, job-shop, machine, preempt, activity, make-span, cmax, flow-shop, completion-time, job, precedence, transportation, batch process, resource, inventory, setup-time, open-shop, due-date, scheduling, tardiness	Open Shop Scheduling Problem, single machine	cycle, alldifferent, bin-packing, cumulative, diffn, circuit, disjunctive, geost	Java, Prolog, C++	ECLiPSe, Mistral, SICStus, Cplex, OZ, OPL, Choco Solver, CHIP, Claire, Ilog Scheduler, Gecode	rectangle-packing, robot, semiconductor, patient		real-world, generated instance, industrial partner, benchmark	edge-finding, energetic reasoning, not-last, time-tabling, sweep, not-first	2499	??
Malik08 [355]	151	order, machine, task, job, completion-time, activity, distributed, precedence, resource, make-span, scheduling		alldifferent, cycle			pipeline		real-life, benchmark	edge-finding	2502	??
Menana11 [362]	148	distributed, resource, machine, task, manpower, activity, precedence, scheduling		alldifferent	Prolog	Choco Solver, Z3, OZ, CHIP, OPL, Claire	nurse		github, benchmark, Roadeff	time-tabling	2500	??
Siala15a [459]	199	setup-time, job-shop, task, activity, precedence, open-shop, earliness, cmax, sequence dependent setup, due-date, lazy clause generation, make-span, order, tardiness, scheduling, machine, job, resource	OSP, single machine, TMS, RCPSP	table constraint, cumulative, circuit, disjunctive, alldifferent, cycle		CHIP, Ilog Solver, Mistral, OPL, Claire	automotive, rectangle-packing		benchmark, github, random instance, Roadeff, real-world, CSPLib	time-tabling, edge-finding	2498	??

### E.3 InBook from bibtex

Table 72: Works from bibtex (Total 1)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	Pages	Nr Cites	Nr Refs	b	c
SchuttFSW15 SchuttFSW15	S. Andreas, F. Thibaut, Stuckey, Peter J., Wallace, Mark G.	A Satisfiability Solving Approach	No	[449]	2015	Handbook on Project Manage- ment and Schedul- ing Vol.1	26	3	28	No	??

## E.4 InCollection from bibtex

Table 73: Works from bibtex (Total 7)

Key	Authors	Title	LC	Cite	Year	Conference /Journal	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	[87]	2019	Handbook on Scheduling	62	38	0	No	??
Hooker19 Hooker19	John N. Hooker	Logic-Based Benders Decomposition for Large-Scale Optimization	No	[257]	2019	Large Scale Optimization in Supply Chains and Smart Manufacturing	26	8	0	No	??
HurleyOS16 HurleyOS16	B. Hurley, B. O'Sullivan, H. Simonis	ICON Loop Energy Show Case	Yes	[263]	2016	Data Mining and Constraint Programming - Foundations of a Cross-Disciplinary Approach	14	0	16	??	??
Bartak14 Bartak14	R. Barták	Planning and Scheduling	No	[46]	2014	Computing Handbook, Third Edition: Computer Science and Software Engineering	null	0	0	No	??
BaptisteLPN06 BaptisteLPN06	P. Baptiste, P. Laborie, Claude Le Pape, W. Nuijten	Constraint-Based Scheduling and Planning	No	[38]	2006	Handbook of Constraint Programming	39	30	25	No	??
KanetAG04 KanetAG04	John J. Kanet, S. Ahire, Michael F. Gorman	Constraint Programming for Scheduling	No	[279]	2004	Handbook of Scheduling - Algorithms, Models, and Performance Analysis	null	0	0	No	??
BreitingerL95 BreitingerL95	S. Breitinger, Hendrik C. R. Lock	Using Constraint Logic Programming for Industrial Scheduling Problems	No	[108]	1995	Logic Programming: Formal Methods and Practical Applications, Studies in Computer Science and Artificial Intelligence	27	0	0	No	??