

CP Papers on Scheduling

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- 1 Introduction**
- 2 Conference Paper List**

Table 1: Papers from bibtex

Key	Authors	Title	LC	Cite	Year	Conference	Pages
AalianPG23 AalianPG23	Y. Aalian, G. Pesant, M. Gamache	Optimization of Short-Term Underground Mine Planning Using Constraint Programming	Yes	[1]	2023	CP 2023	16
Bit-Monnot23 Bit-Monnot23	A. Bit-Monnot	Enhancing Hybrid CP-SAT Search for Disjunctive Scheduling	Yes	[55]	2023	ECAI 2023	8
EfthymiouY23 EfthymiouY23	N. Efthymiou, N. Yorke-Smith	Predicting the Optimal Period for Cyclic Hoist Scheduling Problems	Yes	[106]	2023	CPAIOR 2023	16
JuvinHHL23 JuvinHHL23	C. Juvin, E. Hebrard, L. Houssin, P. Lopez	An Efficient Constraint Programming Approach to Pre-emptive Job Shop Scheduling	Yes	[188]	2023	CP 2023	16
JuvinHL23 JuvinHL23	C. Juvin, L. Houssin, P. Lopez	Constraint Programming for the Robust Two-Machine Flow-Shop Scheduling Problem with Budgeted Uncertainty	Yes	[189]	2023	CPAIOR 2023	16
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	[193]	2023	CP 2023	17
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	[202]	2023	CPAIOR 2023	16
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	[260]	2023	APMS 2023	14
PerezGSL23 PerezGSL23	G. Perez, G. Glorian, W. Suijlen, A. Lallouet	A Constraint Programming Model for Scheduling the Unloading of Trains in Ports	Yes	[299]	2023	ICTAI 2023	7
PovedaAA23 PovedaAA23	G. Pováda, N. Álvarez, C. Artigues	Partially Preemptive Multi Skill/Mode Resource-Constrained Project Scheduling with Generalized Precedence Relations and Calendars	Yes	[309]	2023	CP 2023	21
SquillaciPR23 SquillaciPR23	S. Squillaci, C. Pralet, S. Roussel	Scheduling Complex Observation Requests for a Constellation of Satellites: Large Neighborhood Search Approaches	Yes	[346]	2023	CPAIOR 2023	17
TardivoDFMP23 TardivoDFMP23	F. Tardivo, A. Dovier, A. Formisano, L. Michel, E. Pontelli	Constraint Propagation on GPU: A Case Study for the Cumulative Constraint	Yes	[354]	2023	CPAIOR 2023	18
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	[355]	2023	ICAPS 2023	9
WangB23 WangB23	R. Wang, N. Barnier	Dynamic All-Different and Maximal Cliques Constraints for Fixed Job Scheduling	Yes	[391]	2023	ICTAI 2023	8
YuraszeckMC23 YuraszeckMC23	F. Yuraszeck, G. Mejía, D. Canut-de-Bon	A competitive constraint programming approach for the group shop scheduling problem	Yes	[405]	2023	ANT 2023	6
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	[14]	2022	CPAIOR 2022	13
BoudreaultSLQ22 BoudreaultSLQ22	R. Boudreault, V. Simard, D. Lafond, C. Quimper	A Constraint Programming Approach to Ship Refit Project Scheduling	Yes	[67]	2022	CP 2022	16
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	[137]	2022	CPAIOR 2022	18
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	[231]	2022	ICNSC 2022	6
OuelletQ22 OuelletQ22	Y. Ouellet, C. Quimper	A MinCumulative Resource Constraint	Yes	[291]	2022	CPAIOR 2022	17
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	[292]	2022	CoDIT 2022	6
PopovicCGNC22 PopovicCGNC22	L. Popovic, A. Côté, M. Gaha, F. Nguewouo, Q. Cappare	Scheduling the Equipment Maintenance of an Electric Power Transmission Network Using Constraint Programming	Yes	[307]	2022	CP 2022	15
Teppan22 Teppan22	Erich Christian Teppan	Types of Flexible Job Shop Scheduling: A Constraint Programming Experiment	No	[358]	2022	ICAART 2022	8
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	No	[365]	2022	ICAART 2022	8

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Key	Authors	Title	LC	Cite	Year	Conference	Pages
WinterMMW22 Winter-MMW22	F. Winter, S. Meiswinkel, N. Musliu, D. Walkiewicz	Modeling and Solving Parallel Machine Scheduling with Contamination Constraints in the Agricultural Industry	Yes	[396]	2022	CP 2022	18
ZhangJZL22 ZhangJZL22	H. Zhang, Y. Ji, Z. Zhao, S. Liu	Constraint Programming for Modeling and Solving a Hybrid Flow Shop Scheduling Problem	Yes	[410]	2022	ICNSC 2022	6
AntuoriHHEN21 AntuoriHHEN21	V. Antuori, E. Hebrard, M. Huguet, S. Esono-daigui, A. Nguyen	Combining Monte Carlo Tree Search and Depth First Search Methods for a Car Manufacturing Workshop Scheduling Problem	Yes	[11]	2021	CP 2021	16
ArmstrongGOS21 ArmstrongGOS21	E. Armstrong, M. Garraffa, B. O’Sullivan, H. Simonis	The Hybrid Flexible Flowshop with Transportation Times	Yes	[13]	2021	CP 2021	18
Astrand0F21 Astrand0F21	M. Åstrand, M. Johansson, Hamid Reza Feyzmahdavian	Short-Term Scheduling of Production Fleets in Underground Mines Using CP-Based LNS	Yes	[20]	2021	CPAIOR 2021	18
BenderWS21 BenderWS21	T. Bender, D. Wittwer, T. Schmidt	Applying Constraint Programming to the Multi-mode Scheduling Problem in Harvest Logistics	Yes	[47]	2021	ICCL 2021	16
GeibingerKKMMW21 GeibingerKKMMW21	T. Geibinger, L. Kletzander, M. Krainz, F. Mischek, N. Musliu, F. Winter	Physician Scheduling During a Pandemic	Yes	[133]	2021	CPAIOR 2021	10
GeibingerMM21 GeibingerMM21	T. Geibinger, F. Mischek, N. Musliu	Constraint Logic Programming for Real-World Test Laboratory Scheduling	Yes	[136]	2021	AAAI 2021	9
HanenKP21 HanenKP21	C. Hanen, Alix Munier Kordon, T. Pedersen	Two Deadline Reduction Algorithms for Scheduling Dependent Tasks on Parallel Processors	Yes	[159]	2021	CPAIOR 2021	17
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	[175]	2021	CPAIOR 2021	19
KlankeBYE21 Klanke-BYE21	C. Klanke, Dominik R. Bleidorn, V. Yfantis, S. Engell	Combining Constraint Programming and Temporal Decomposition Approaches - Scheduling of an Industrial Formulation Plant	Yes	[203]	2021	CPAIOR 2021	16
KovacsTKSG21 KovacsTKSG21	B. Kovács, P. Tassel, W. Kohlenbrein, P. Schrott-Kostwein, M. Gebser	Utilizing Constraint Optimization for Industrial Machine Workload Balancing	Yes	[215]	2021	CP 2021	17
LacknerMMWW21 LacknerMMWW21	M. Lackner, C. Mrkvicka, N. Musliu, D. Walkiewicz, F. Winter	Minimizing Cumulative Batch Processing Time for an Industrial Oven Scheduling Problem	Yes	[223]	2021	CP 2021	18
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	[36]	2020	Fog-IoT 2020	9
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	[143]	2020	AAAI 2020	8
GroleazNS20 GroleazNS20	L. Groleaz, Samba Ndojh Ndiaye, C. Solnon	Solving the Group Cumulative Scheduling Problem with CPO and ACO	Yes	[154]	2020	CP 2020	17
GroleazNS20a GroleazNS20a	L. Groleaz, Samba Ndojh Ndiaye, C. Solnon	ACO with automatic parameter selection for a scheduling problem with a group cumulative constraint	No	[153]	2020	GECCO 2020	9
Mercier-AubinGQ20 Mercier-AubinGQ20	A. Mercier-Aubin, J. Gaudreault, C. Quimper	Leveraging Constraint Scheduling: A Case Study to the Textile Industry	Yes	[263]	2020	CPAIOR 2020	13
NattafM20 NattafM20	M. Nattaf, A. Malapert	Filtering Rules for Flow Time Minimization in a Parallel Machine Scheduling Problem	Yes	[278]	2020	CP 2020	16
TangB20 TangB20	Tanya Y. Tang, J. Christopher Beck	CP and Hybrid Models for Two-Stage Batching and Scheduling	Yes	[352]	2020	CPAIOR 2020	16
WangB20 WangB20	R. Wang, N. Barnier	Global Propagation of Transition Cost for Fixed Job Scheduling	Yes	[390]	2020	ECAI 2020	8
WessenCS20 WessenCS20	J. Wessén, M. Carlsson, C. Schulte	Scheduling of Dual-Arm Multi-tool Assembly Robots and Workspace Layout Optimization	Yes	[394]	2020	CPAIOR 2020	10
BadicaBIL19 BadicaBIL19	A. Badica, C. Badica, M. Ivanovic, D. Logofatu	Exploring the Space of Block Structured Scheduling Processes Using Constraint Logic Programming	No	[24]	2019	IDC 2019	11
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	[40]	2019	ICRA 2019	7
BogaerdTW19 BogaerdTW19	Pim van den Bogaerd, Mathijs de Weerd	Lower Bounds for Uniform Machine Scheduling Using Decision Diagrams	Yes	[371]	2019	CPAIOR 2019	16

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ColT19 ColT19	Giacomo Da Col, Erich Christian Teppan	Industrial Size Job Shop Scheduling Tackled by Present Day CP Solvers	Yes	[83]	2019	CP 2019	17
FrimodigS19 FrimodigS19	S. Frimodig, C. Schulte	Models for Radiation Therapy Patient Scheduling	Yes	[121]	2019	CP 2019	17
FrohnerTR19 FrohnerTR19	N. Frohner, S. Teuschl, Günther R. Raidl	Casual Employee Scheduling with Constraint Programming and Metaheuristics	Yes	[122]	2019	EUROCAST 2019	9
GalleguillosKSB19 GalleguillosKSB19	C. Galleguillos, Z. Kiziltan, A. Sirbu, Özalp Babaoglu	Constraint Programming-Based Job Dispatching for Modern HPC Applications	Yes	[124]	2019	CP 2019	18
GeibingerMM19 GeibingerMM19	T. Geibinger, F. Mischek, N. Musliu	Investigating Constraint Programming for Real World Industrial Test Laboratory Scheduling	Yes	[135]	2019	CPAIOR 2019	16
LiuLH19 LiuLH19	K. Liu, S. Löffler, P. Hofstedt	Solving the Talent Scheduling Problem by Parallel Constraint Programming	Yes	[238]	2019	AIAI 2019	9
MalapertN19 MalapertN19	A. Malapert, M. Nattaf	A New CP-Approach for a Parallel Machine Scheduling Problem with Time Constraints on Machine Qualifications	Yes	[254]	2019	CPAIOR 2019	17
MurinR19 MurinR19	S. Murín, H. Rudová	Scheduling of Mobile Robots Using Constraint Programming	Yes	[273]	2019	CP 2019	16
ParkUJR19 ParkUJR19	H. Park, J. Um, J. Jung, M. Ruskowski	Developing a Production Scheduling System for Modular Factory Using Constraint Programming	Yes	[297]	2019	RAAD 2019	8
Tom19 Tom19	M. Tom	Fuzzy Multi-Constraint Programming Model for Weekly Meals Scheduling	Yes	[363]	2019	FUZZ-IEEE 2019	6
YangSS19 YangSS19	M. Yang, A. Schutt, Peter J. Stuckey	Time Table Edge Finding with Energy Variables	Yes	[402]	2019	CPAIOR 2019	10
ArbaouiY18 ArbaouiY18	T. Arbaoui, F. Yalaoui	Solving the Unrelated Parallel Machine Scheduling Problem with Additional Resources Using Constraint Programming	Yes	[12]	2018	ACIIDS 2018	10
AstrandJZ18 AstrandJZ18	M. Åstrand, M. Johansson, A. Zanarini	Fleet Scheduling in Underground Mines Using Constraint Programming	Yes	[21]	2018	CPAIOR 2018	9
BenediktSMVH18 BenediktSMVH18	O. Benedikt, P. Sucha, I. Módos, M. Vlk, Z. Hanzálek	Energy-Aware Production Scheduling with Power-Saving Modes	Yes	[49]	2018	CPAIOR 2018	10
DemirovicS18 DemirovicS18	E. Demirovic, Peter J. Stuckey	Constraint Programming for High School Timetabling: A Scheduling-Based Model with Hot Starts	Yes	[95]	2018	CPAIOR 2018	18
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	[161]	2018	CP 2018	18
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	No	[176]	2018	AICCC 2018	6
KameugneFGOQ18 KameugneFGOQ18	R. Kameugne, Séverine Betmbe Fetgo, V. Gin-gras, Y. Ouellet, C. Quimper	Horizontally Elastic Not-First/Not-Last Filtering Algorithm for Cumulative Resource Constraint	Yes	[192]	2018	CPAIOR 2018	17
Laborie18a Laborie18a	P. Laborie	An Update on the Comparison of MIP, CP and Hybrid Approaches for Mixed Resource Allocation and Scheduling	Yes	[221]	2018	CPAIOR 2018	9
NishikawaSTT18 NishikawaSTT18	H. Nishikawa, K. Shimada, I. Taniguchi, H. Tomiyama	Scheduling of Malleable Fork-Join Tasks with Constraint Programming	Yes	[280]	2018	CANDAR 2018	6
NishikawaSTT18a NishikawaSTT18a	H. Nishikawa, K. Shimada, I. Taniguchi, H. Tomiyama	Scheduling of Malleable Tasks Based on Constraint Programming	Yes	[281]	2018	TENCON 2018	6
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	[290]	2018	CPAIOR 2018	18
RiahiNS018 RiahiNS018	V. Riahi, M. A. Hakim Newton, K. Su, A. Sattar	Local Search for Flowshops with Setup Times and Blocking Constraints	No	[319]	2018	ICAPS 2018	9
Tesch18 Tesch18	A. Tesch	Improving Energetic Propagations for Cumulative Scheduling	Yes	[360]	2018	CP 2018	17
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	[57]	2017	CP 2017	9
CappartS17 CappartS17	Q. Cappart, P. Schaus	Rescheduling Railway Traffic on Real Time Situations Using Time-Interval Variables	Yes	[73]	2017	CPAIOR 2017	16

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GelainPRVW17 Gelain-PRVW17	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	[138]	2017	CPAIOR 2017	16
GoldwaserS17 GoldwaserS17	A. Goldwaser, A. Schutt	Optimal Torpedo Scheduling	Yes	[146]	2017	CP 2017	16
Hooker17 Hooker17	John N. Hooker	Job Sequencing Bounds from Decision Diagrams	Yes	[181]	2017	CP 2017	14
KletzanderM17 KletzanderM17	L. Kletzander, N. Musliu	A Multi-stage Simulated Annealing Algorithm for the Torpedo Scheduling Problem	Yes	[204]	2017	CPAIOR 2017	15
LiuCGM17 LiuCGM17	T. Liu, Roberto Di Cosmo, M. Gabbrielli, J. Mauro	NightSplitter: A Scheduling Tool to Optimize (Sub)group Activities	Yes	[239]	2017	CP 2017	17
Madi-WambaLOBM17 Madi-WambaLOBM17	G. Madi-Wamba, Y. Li, A. Orgerie, N. Beldiceanu, J. Menaud	Green Energy Aware Scheduling Problem in Virtualized Datacenters	Yes	[252]	2017	ICPADS 2017	8
MossigeGSMC17 MossigeGSMC17	M. Mossige, A. Gotlieb, H. Spieker, H. Meling, M. Carlsson	Time-Aware Test Case Execution Scheduling for Cyber-Physical Systems	Yes	[269]	2017	CP 2017	18
Pralet17 Pralet17	C. Pralet	An Incomplete Constraint-Based System for Scheduling with Renewable Resources	Yes	[310]	2017	CP 2017	19
YoungFS17 YoungFS17	Kenneth D. Young, T. Feydy, A. Schutt	Constraint Programming Applied to the Multi-Skill Project Scheduling Problem	Yes	[403]	2017	CP 2017	10
BonfiettiZLM16 BonfiettiZLM16	A. Bonfietti, A. Zanarini, M. Lombardi, M. Milano	The Multirate Resource Constraint	Yes	[64]	2016	CP 2016	17
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	[65]	2016	CP 2016	17
CauwelaertDMS16 CauwelaertDMS16	Sascha Van Cauwelaert, C. Dejemeppe, J. Monette, P. Schaus	Efficient Filtering for the Unary Resource with Family-Based Transition Times	Yes	[76]	2016	CP 2016	16
FontaineMH16 FontaineMH16	D. Fontaine, Laurent D. Michel, Pascal Van Hentenryck	Parallel Composition of Scheduling Solvers	Yes	[117]	2016	CPAIOR 2016	11
GilesH16 GilesH16	K. Giles, Willem-Jan van Hoeve	Solving a Supply-Delivery Scheduling Problem with Constraint Programming	Yes	[140]	2016	CP 2016	16
GingrasQ16 GingrasQ16	V. Gingras, C. Quimper	Generalizing the Edge-Finder Rule for the Cumulative Constraint	No	[141]	2016	IJCAI 2016	7
HechingH16 HechingH16	Aliza R. Heching, John N. Hooker	Scheduling Home Hospice Care with Logic-Based Benders Decomposition	Yes	[163]	2016	CPAIOR 2016	11
LimHTB16 LimHTB16	B. Lim, Hassan L. Hijazi, S. Thiébaux, Menkes van den Briel	Online HVAC-Aware Occupancy Scheduling with Adaptive Temperature Control	Yes	[234]	2016	CP 2016	18
Madi-WambaB16 Madi-WambaB16	G. Madi-Wamba, N. Beldiceanu	The TaskIntersection Constraint	Yes	[251]	2016	CPAIOR 2016	16
SchuttS16 SchuttS16	A. Schutt, Peter J. Stuckey	Explaining Producer/Consumer Constraints	Yes	[333]	2016	CP 2016	17
SzerediS16 SzerediS16	R. Szeredi, A. Schutt	Modelling and Solving Multi-mode Resource-Constrained Project Scheduling	Yes	[351]	2016	CP 2016	10
Tesch16 Tesch16	A. Tesch	A Nearly Exact Propagation Algorithm for Energetic Reasoning in $O(n^2 \log n)$	Yes	[359]	2016	CP 2016	27
BofillGSV15 BofillGSV15	M. Bofill, M. Garcia, J. Suy, M. Villaret	MaxSAT-Based Scheduling of B2B Meetings	Yes	[59]	2015	CPAIOR 2015	9
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	[70]	2015	CPAIOR 2015	17
DejemeppeCS15 DejemeppeCS15	C. Dejemeppe, Sascha Van Cauwelaert, P. Schaus	The Unary Resource with Transition Times	Yes	[92]	2015	CP 2015	16
EvenSH15 EvenSH15	C. Even, A. Schutt, Pascal Van Hentenryck	A Constraint Programming Approach for Non-preemptive Evacuation Scheduling	Yes	[111]	2015	CP 2015	18
GayHLS15 GayHLS15	S. Gay, R. Hartert, C. Lecoutre, P. Schaus	Conflict Ordering Search for Scheduling Problems	Yes	[128]	2015	CP 2015	9
GayHS15 GayHS15	S. Gay, R. Hartert, P. Schaus	Simple and Scalable Time-Table Filtering for the Cumulative Constraint	Yes	[129]	2015	CP 2015	9
KreterSS15 KreterSS15	S. Kreter, A. Schutt, Peter J. Stuckey	Modeling and Solving Project Scheduling with Calendars	Yes	[216]	2015	CP 2015	17
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	[235]	2015	CPAIOR 2015	15

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LombardiBM15	LombardiBM15	M. Lombardi, A. Bonfietti, M. Milano	Deterministic Estimation of the Expected Makespan of a POS Under Duration Uncertainty	Yes	[241]	2015	CP 2015	16
MelgarejoLS15	MelgarejoLS15	P. Aguiar-Melgarejo, P. Laborie, C. Solnon	A Time-Dependent No-Overlap Constraint: Application to Urban Delivery Problems	Yes	[6]	2015	CPAIOR 2015	17
MurphyMB15	MurphyMB15	Seán Óg Murphy, O. Manzano, Kenneth N. Brown	Design and Evaluation of a Constraint-Based Energy Saving and Scheduling Recommender System	Yes	[274]	2015	CP 2015	17
PesantRR15	PesantRR15	G. Pesant, G. Rix, L. Rousseau	A Comparative Study of MIP and CP Formulations for the B2B Scheduling Optimization Problem	Yes	[301]	2015	CPAIOR 2015	16
PraletLJ15	PraletLJ15	C. Pralet, S. Lemai-Chenevier, J. Jaubert	Scheduling Running Modes of Satellite Instruments Using Constraint-Based Local Search	Yes	[311]	2015	CP 2015	16
SialaAH15	SialaAH15	M. Siala, C. Artigues, E. Hebrard	Two Clause Learning Approaches for Disjunctive Scheduling	Yes	[340]	2015	CP 2015	10
VilimLS15	VilimLS15	P. Vilím, P. Laborie, P. Shaw	Failure-Directed Search for Constraint-Based Scheduling	Yes	[385]	2015	CPAIOR 2015	17
ZhouGL15	ZhouGL15	J. Zhou, Y. Guo, G. Li	On complex hybrid flexible flowshop scheduling problems based on constraint programming	Yes	[416]	2015	FSKD 2015	5
cpaior-GayHS15	cpaior-GayHS15	S. Gay, R. Hartert, P. Schaus	Time-Table Disjunctive Reasoning for the Cumulative Constraint	Yes	[130]	2015	CPAIOR 2015	16
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	[99]	2014	CP 2014	18
BartoliniBBLM14	BartoliniBBLM14	A. Bartolini, A. Borghesi, T. Bridi, M. Lombardi, M. Milano	Proactive Workload Dispatching on the EURORA Supercomputer	Yes	[35]	2014	CP 2014	16
BessiereHMQW14	BessiereHMQW14	C. Bessiere, E. Hebrard, M. Ménard, C. Quimper, T. Walsh	Buffered Resource Constraint: Algorithms and Complexity	Yes	[53]	2014	CPAIOR 2014	16
BofilIEGPSV14	BofilIEGPSV14	M. Bofil, J. Espasa, M. Garcia, M. Palahí, J. Suy, M. Villaret	Scheduling B2B Meetings	Yes	[58]	2014	CP 2014	16
BonfiettiLM14	BonfiettiLM14	A. Bonfietti, M. Lombardi, M. Milano	Disregarding Duration Uncertainty in Partial Order Schedules? Yes, We Can!	Yes	[63]	2014	CPAIOR 2014	16
DejemeppeD14	DejemeppeD14	C. Dejemeppe, Y. Deville	Continuously Degrading Resource and Interval Dependent Activity Durations in Nuclear Medicine Patient Scheduling	Yes	[93]	2014	CPAIOR 2014	9
DerrienP14	DerrienP14	A. Derrien, T. Petit	A New Characterization of Relevant Intervals for Energetic Reasoning	Yes	[97]	2014	CP 2014	9
DerrienPZ14	DerrienPZ14	A. Derrien, T. Petit, S. Zampelli	A Declarative Paradigm for Robust Cumulative Scheduling	Yes	[98]	2014	CP 2014	9
DoulabiRP14	DoulabiRP14	Seyed Hossein Hashemi Doulabi, L. Rousseau, G. Pesant	A Constraint Programming-Based Column Generation Approach for Operating Room Planning and Scheduling	Yes	[103]	2014	CPAIOR 2014	9
FriedrichFMRSS14	FriedrichFMRSS14	G. Friedrich, M. Frühstück, V. Mersheeva, A. Ryabokon, M. Sander, A. Starzacher, E. Teppan	Representing Production Scheduling with Constraint Answer Set Programming	No	[120]	2014	GOR 2014	7
GaySS14	GaySS14	S. Gay, P. Schaus, Vivian De Smedt	Continuous Casting Scheduling with Constraint Programming	Yes	[131]	2014	CP 2014	15
HoundjiSWD14	HoundjiSWD14	Vinasétan Ratheil Houndji, P. Schaus, Laurence A. Wolsey, Y. Deville	The StockingCost Constraint	Yes	[183]	2014	CP 2014	16
KoschB14	KoschB14	S. Kosch, J. Christopher Beck	A New MIP Model for Parallel-Batch Scheduling with Non-identical Job Sizes	Yes	[208]	2014	CPAIOR 2014	16
CireCH13	CireCH13	André A. Ciré, E. Coban, John N. Hooker	Mixed Integer Programming vs. Logic-Based Benders Decomposition for Planning and Scheduling	Yes	[80]	2013	CPAIOR 2013	7
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	[156]	2013	CPAIOR 2013	7
HeinzKB13	HeinzKB13	S. Heinz, W. Ku, J. Christopher Beck	Recent Improvements Using Constraint Integer Programming for Resource Allocation and Scheduling	Yes	[165]	2013	CPAIOR 2013	16
KelarevaTK13	KelarevaTK13	E. Kelareva, K. Tierney, P. Kilby	CP Methods for Scheduling and Routing with Time-Dependent Task Costs	Yes	[197]	2013	CPAIOR 2013	17
LetortCB13	LetortCB13	A. Letort, M. Carlsson, N. Beldiceanu	A Synchronized Sweep Algorithm for the <i>k-dimensional cumulative</i> Constraint	Yes	[229]	2013	CPAIOR 2013	16

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Key	Authors	Title	LC	Cite	Year	Conference	Pages
OuelletQ13 OuelletQ13	P. Ouellet, C. Quimper	Time-Table Extended-Edge-Finding for the Cumulative Constraint	Yes	[289]	2013	CP 2013	16
SchuttFS13 SchuttFS13	A. Schutt, T. Feydy, Peter J. Stuckey	Scheduling Optional Tasks with Explanation	Yes	[330]	2013	CP 2013	17
cpaior-SchuttFS13 cpaior-SchuttFS13	A. Schutt, T. Feydy, Peter J. Stuckey	Explaining Time-Table-Edge-Finding Propagation for the Cumulative Resource Constraint	Yes	[329]	2013	CPAIOR 2013	17
BillautHL12 BillautHL12	J. Billaut, E. Hebrard, P. Lopez	Complete Characterization of Near-Optimal Sequences for the Two-Machine Flow Shop Scheduling Problem	Yes	[54]	2012	CPAIOR 2012	15
BonfiettiLBM12 BonfiettiLBM12	A. Bonfietti, M. Lombardi, L. Benini, M. Milano	Global Cyclic Cumulative Constraint	Yes	[62]	2012	CPAIOR 2012	16
HeinzB12 HeinzB12	S. Heinz, J. Christopher Beck	Reconsidering Mixed Integer Programming and MIP-Based Hybrids for Scheduling	Yes	[164]	2012	CPAIOR 2012	17
IfrimOS12 IfrimOS12	G. Ifrim, B. O’Sullivan, H. Simonis	Properties of Energy-Price Forecasts for Scheduling	Yes	[185]	2012	CP 2012	16
LetortBC12 LetortBC12	A. Letort, N. Beldiceanu, M. Carlsson	A Scalable Sweep Algorithm for the cumulative Constraint	Yes	[228]	2012	CP 2012	16
RendlPHPR12 RendlPHPR12	A. Rendl, M. Prandtstetter, G. Hiermann, J. Puchinger, Günther R. Raidl	Hybrid Heuristics for Multimodal Homecare Scheduling	Yes	[318]	2012	CPAIOR 2012	17
SchuttCSW12 SchuttCSW12	A. Schutt, G. Chu, Peter J. Stuckey, Mark G. Wallace	Maximising the Net Present Value for Resource-Constrained Project Scheduling	Yes	[328]	2012	CPAIOR 2012	17
SerraNM12 SerraNM12	T. Serra, G. Nishioka, Fernando J. M. Marcellino	The Offshore Resources Scheduling Problem: Detailing a Constraint Programming Approach	Yes	[335]	2012	CP 2012	17
SimoninAHL12 SimoninAHL12	G. Simonin, C. Artigues, E. Hebrard, P. Lopez	Scheduling Scientific Experiments on the Rosetta/Philae Mission	Yes	[341]	2012	CP 2012	15
ZhangLS12 ZhangLS12	X. Zhang, Z. Lv, X. Song	Model and Solution for Hot Strip Rolling Scheduling Problem Based on Constraint Programming Method	Yes	[413]	2012	CIT 2012	4
BonfiettiLBM11 BonfiettiLBM11	A. Bonfietti, M. Lombardi, L. Benini, M. Milano	A Constraint Based Approach to Cyclic RCPSP	Yes	[61]	2011	CP 2011	15
ChapadosJR11 ChapadosJR11	N. Chapados, M. Joliveau, L. Rousseau	Retail Store Workforce Scheduling by Expected Operating Income Maximization	Yes	[78]	2011	CPAIOR 2011	6
ClercqpBJ11 ClercqpBJ11	Alexis De Clercq, T. Petit, N. Beldiceanu, N. Jussien	Filtering Algorithms for Discrete Cumulative Problems with Overloads of Resource	Yes	[81]	2011	CP 2011	16
EdisO11 EdisO11	Emrah B. Edis, C. Oguz	Parallel Machine Scheduling with Additional Resources: A Lagrangian-Based Constraint Programming Approach	Yes	[105]	2011	CPAIOR 2011	7
GrimesH11 GrimesH11	D. Grimes, E. Hebrard	Models and Strategies for Variants of the Job Shop Scheduling Problem	Yes	[150]	2011	CP 2011	17
HeinzS11 HeinzS11	S. Heinz, J. Schulz	Explanations for the Cumulative Constraint: An Experimental Study	Yes	[167]	2011	SEA 2011	10
HermenierDL11 HermenierDL11	F. Hermenier, S. Demasse, X. Lorca	Bin Repacking Scheduling in Virtualized Datacenters	Yes	[174]	2011	CP 2011	15
KameugneFSN11 KameugneFSN11	R. Kameugne, Laure Pauline Fotso, Joseph D. Scott, Y. Ngo-Kateu	A Quadratic Edge-Finding Filtering Algorithm for Cumulative Resource Constraints	Yes	[194]	2011	CP 2011	15
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	[225]	2011	CPAIOR 2011	14
LombardiBMB11 LombardiBMB11	M. Lombardi, A. Bonfietti, M. Milano, L. Benini	Precedence Constraint Posting for Cyclic Scheduling Problems	Yes	[242]	2011	CPAIOR 2011	17
Vilim11 Vilim11	P. Vilím	Timetable Edge Finding Filtering Algorithm for Discrete Cumulative Resources	Yes	[382]	2011	CPAIOR 2011	16
ZibranR11 ZibranR11	Minhaz F. Zibran, Chanchal K. Roy	Conflict-Aware Optimal Scheduling of Code Clone Refactoring: A Constraint Programming Approach	Yes	[418]	2011	ICPC 2011	4
ZibranR11a ZibranR11a	Minhaz F. Zibran, Chanchal K. Roy	A Constraint Programming Approach to Conflict-Aware Optimal Scheduling of Prioritized Code Clone Refactoring	Yes	[419]	2011	SCAM 2011	10
BertholdHLMS10 BertholdHLMS10	T. Berthold, S. Heinz, Marco E. Lübbecke, Rolf H. Möhring, J. Schulz	A Constraint Integer Programming Approach for Resource-Constrained Project Scheduling	Yes	[52]	2010	CPAIOR 2010	5
CobanH10 CobanH10	E. Coban, John N. Hooker	Single-Facility Scheduling over Long Time Horizons by Logic-Based Benders Decomposition	Yes	[82]	2010	CPAIOR 2010	5

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Key	Authors	Title	LC	Cite	Year	Conference	Pages	
Davenport10	Davenport10	Andrew J. Davenport	Integrated Maintenance Scheduling for Semiconductor Manufacturing	Yes	[87]	2010	CPAIOR 2010	5
GrimesH10	GrimesH10	D. Grimes, E. Hebrard	Job Shop Scheduling with Setup Times and Maximal Time-Lags: A Simple Constraint Programming Approach	Yes	[149]	2010	CPAIOR 2010	15
LombardiM10	LombardiM10	M. Lombardi, M. Milano	Constraint Based Scheduling to Deal with Uncertain Durations and Self-Timed Execution	Yes	[244]	2010	CP 2010	15
MakMS10	MakMS10	K. Mak, J. Ma, W. Su	A constraint programming approach for production scheduling of multi-period virtual cellular manufacturing systems	Yes	[253]	2010	ICNC 2010	5
SchuttW10	SchuttW10	A. Schutt, A. Wolf	A New $O(n^2 \log n)$ Not-First/Not-Last Pruning Algorithm for Cumulative Resource Constraints	Yes	[334]	2010	CP 2010	15
SunLYL10	SunLYL10	Z. Sun, H. Li, M. Yao, N. Li	Scheduling Optimization Techniques for FlexRay Using Constraint-Programming	Yes	[349]	2010	GreenCom 2010	6
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	[4]	2009	CPAIOR 2009	2
AronssonBK09	AronssonBK09	M. Aronsson, M. Bohlin, P. Kreuger	MILP formulations of cumulative constraints for railway scheduling - A comparative study	Yes	[15]	2009	ATMOS 2009	null
Baptiste09	Baptiste09	P. Baptiste	Constraint-Based Schedulers, Do They Really Work?	Yes	[25]	2009	CP 2009	1
GrimesHM09	GrimesHM09	D. Grimes, E. Hebrard, A. Malapert	Closing the Open Shop: Contradicting Conventional Wisdom	Yes	[151]	2009	CP 2009	9
Laborie09	Laborie09	P. Laborie	IBM ILOG CP Optimizer for Detailed Scheduling Illustrated on Three Problems	Yes	[220]	2009	CPAIOR 2009	15
LombardiM09	LombardiM09	M. Lombardi, M. Milano	A Precedence Constraint Posting Approach for the RCPSP with Time Lags and Variable Durations	Yes	[243]	2009	CP 2009	15
MonetteDH09	MonetteDH09	J. Monette, Y. Deville, Pascal Van Hentenryck	Just-In-Time Scheduling with Constraint Programming	Yes	[266]	2009	ICAPS 2009	null
SchuttFSW09	SchuttFSW09	A. Schutt, T. Feydy, Peter J. Stuckey, M. Wallace	Why Cumulative Decomposition Is Not as Bad as It Sounds	Yes	[331]	2009	CP 2009	16
ThiruvadyBME09	ThiruvadyBME09	Dhananjay R. Thiruvady, C. Blum, B. Meyer, Andreas T. Ernst	Hybridizing Beam-ACO with Constraint Programming for Single Machine Job Scheduling	Yes	[361]	2009	HM 2009	15
Vilim09	Vilim09	P. Vilím	Edge Finding Filtering Algorithm for Discrete Cumulative Resources in $O(kn \log n) \{ \mathcal{O}(kn \log n) \}$	Yes	[380]	2009	CP 2009	15
cpaior-Vilim09	cpaior-Vilim09	P. Vilím	Max Energy Filtering Algorithm for Discrete Cumulative Resources	Yes	[381]	2009	CPAIOR 2009	15
BarlattCG08	BarlattCG08	A. Barlatt, Amy Mainville Cohn, Oleg Yu. Gusikhin	A Hybrid Approach for Solving Shift-Selection and Task-Sequencing Problems	Yes	[31]	2008	CPAIOR 2008	5
BeldiceanuCP08	BeldiceanuCP08	N. Beldiceanu, M. Carlsson, E. Poder	New Filtering for the cumulative Constraint in the Context of Non-Overlapping Rectangles	Yes	[44]	2008	CPAIOR 2008	15
DoomsH08	DoomsH08	G. Dooms, Pascal Van Hentenryck	Gap Reduction Techniques for Online Stochastic Project Scheduling	Yes	[102]	2008	CPAIOR 2008	16
HentenryckM08	HentenryckM08	Pascal Van Hentenryck, L. Michel	The Steel Mill Slab Design Problem Revisited	Yes	[173]	2008	CPAIOR 2008	5
LauLN08	LauLN08	Hoong Chuin Lau, Kong Wei Lye, Viet Bang Nguyen	A Combinatorial Auction Framework for Solving Decentralized Scheduling Problems (Extended Abstract)	Yes	[226]	2008	CPAIOR 2008	5
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	[271]	2008	CP 2008	16
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	[270]	2008	CSE 2008	8
PoderB08	PoderB08	E. Poder, N. Beldiceanu	Filtering for a Continuous Multi-Resources cumulative Constraint with Resource Consumption and Production	No	[303]	2008	ICAPS 2008	8
WatsonB08	WatsonB08	J. Watson, J. Christopher Beck	A Hybrid Constraint Programming / Local Search Approach to the Job-Shop Scheduling Problem	Yes	[393]	2008	CPAIOR 2008	15
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	[370]	2007	CPAIOR 2007	15

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Key	Authors	Title	LC	Cite	Year	Conference	Pages
BeldiceanuP07 BeldiceanuP07	N. Beldiceanu, E. Poder	A Continuous Multi-resources <i>cumulative</i> Constraint with Positive-Negative Resource Consumption-Production	Yes	[45]	2007	CPAIOR 2007	15
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	[88]	2007	CP 2007	13
GarganiR07 GarganiR07	A. Gargani, P. Refalo	An Efficient Model and Strategy for the Steel Mill Slab Design Problem	Yes	[125]	2007	CP 2007	13
HoeveGSL07 HoeveGSL07	Willem Jan van Hoeve, Carla P. Gomes, B. Selman, M. Lombardi	Optimal Multi-Agent Scheduling with Constraint Programming	Yes	[373]	2007	AAAI 2007	6
KeriK07 KeriK07	A. Kéri, T. Kis	Computing Tight Time Windows for RCPSPWET with the Primal-Dual Method	Yes	[199]	2007	CPAIOR 2007	14
KrogtLPHJ07 KrogtLPHJ07	Roman van der Krogt, J. Little, K. Pulliam, S. Hanhilammi, Y. Jin	Scheduling for Cellular Manufacturing	Yes	[372]	2007	CP 2007	13
Limtanyakul07 Limtanyakul07	K. Limtanyakul	Scheduling of Tests on Vehicle Prototypes Using Constraint and Integer Programming	Yes	[236]	2007	GOR 2007	6
MonetteDD07 MonetteDD07	J. Monette, Y. Deville, P. Dupont	A Position-Based Propagator for the Open-Shop Problem	Yes	[265]	2007	CPAIOR 2007	14
RossiTHP07 RossiTHP07	R. Rossi, A. Tarim, B. Hnich, Steven D. Prestwich	Replenishment Planning for Stochastic Inventory Systems with Shortage Cost	Yes	[321]	2007	CPAIOR 2007	15
BeniniBGM06 BeniniBGM06	L. Benini, D. Bertozzi, A. Guerri, M. Milano	Allocation, Scheduling and Voltage Scaling on Energy Aware MPSoCs	Yes	[50]	2006	CPAIOR 2006	15
GomesHS06 GomesHS06	Carla P. Gomes, Willem Jan van Hoeve, B. Selman	Constraint Programming for Distributed Planning and Scheduling	Yes	[148]	2006	AAAI 2006	2
KhemmoudjPB06 KhemmoudjPB06	Mohand Ou Idir Khemmoudj, M. Porcheron, H. Bennaceur	When Constraint Programming and Local Search Solve the Scheduling Problem of Electricité de France Nuclear Power Plant Outages	Yes	[201]	2006	CP 2006	13
KovacsV06 KovacsV06	A. Kovács, J. Váncza	Progressive Solutions: A Simple but Efficient Dominance Rule for Practical RCPSP	Yes	[214]	2006	CPAIOR 2006	13
LiuJ06 LiuJ06	Y. Liu, Y. Jiang	LP-TPOP: Integrating Planning and Scheduling Through Constraint Programming	Yes	[240]	2006	PRICAI 2006	5
QuSN06 QuSN06	Y. Qu, J. Soininen, J. Nurmi	Using Constraint Programming to Achieve Optimal Prefetch Scheduling for Dependent Tasks on Run-Time Reconfigurable Devices	Yes	[316]	2006	SoC 2006	4
AbrilSB05 AbrilSB05	M. Abril, Miguel A. Salido, F. Barber	Distributed Constraints for Large-Scale Scheduling Problems	Yes	[3]	2005	CP 2005	1
ArtiouchineB05 ArtiouchineB05	K. Artiouchine, P. Baptiste	Inter-distance Constraint: An Extension of the All-Different Constraint for Scheduling Equal Length Jobs	Yes	[18]	2005	CP 2005	15
CarchraeBF05 CarchraeBF05	T. Carchrae, J. Christopher Beck, Eugene C. Freuder	Methods to Learn Abstract Scheduling Models	Yes	[74]	2005	CP 2005	1
ChuX05 ChuX05	Y. Chu, Q. Xia	A Hybrid Algorithm for a Class of Resource Constrained Scheduling Problems	Yes	[79]	2005	CPAIOR 2005	15
DilkinaDH05 DilkinaDH05	B. Dilkina, L. Duan, William S. Havens	Extending Systematic Local Search for Job Shop Scheduling Problems	Yes	[100]	2005	CP 2005	5
FortinZDF05 FortinZDF05	J. Fortin, P. Zielinski, D. Dubois, H. Fargier	Interval Analysis in Scheduling	Yes	[118]	2005	CP 2005	15
FrankK05 FrankK05	J. Frank, E. Kürklü	Mixed Discrete and Continuous Algorithms for Scheduling Airborne Astronomy Observations	Yes	[119]	2005	CPAIOR 2005	18
Geske05 Geske05	U. Geske	Railway Scheduling with Declarative Constraint Programming	Yes	[139]	2005	INAP 2005	18
HebrardTW05 HebrardTW05	E. Hebrard, P. Tyler, T. Walsh	Computing Super-Schedules	Yes	[162]	2005	CP 2005	1
KovacsEKV05 KovacsEKV05	A. Kovács, P. Egri, T. Kis, J. Váncza	Proterv-II: An Integrated Production Planning and Scheduling System	Yes	[211]	2005	CP 2005	1
QuirogaZH05 QuirogaZH05	O. Quiroga, L. Zeballos, Gabriela P. Henning	A Constraint Programming Approach to Tool Allocation and Resource Scheduling in FMS	Yes	[317]	2005	ICRA 2005	6

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Key	Authors	Title	LC	Cite	Year	Conference	Pages
Vilim05 Vilim05	P. Vilím	Computing Explanations for the Unary Resource Constraint	Yes	[379]	2005	CPAIOR 2005	14
WolfS05 WolfS05	A. Wolf, G. Schrader	$O(n \log n)$ Overload Checking for the Cumulative Constraint and Its Application	Yes	[398]	2005	INAP 2005	14
WuBB05 WuBB05	Christine Wei Wu, Kenneth N. Brown, J. Christopher Beck	Scheduling with Uncertain Start Dates	Yes	[401]	2005	CP 2005	1
cp-Hooker05 Hooker05	John N. Hooker	Planning and Scheduling to Minimize Tardiness	Yes	[179]	2005	CP 2005	14
ArtiguesBF04 ArtiguesBF04	C. Artigues, S. Belmokhtar, D. Feillet	A New Exact Solution Algorithm for the Job Shop Problem with Sequence-Dependent Setup Times	Yes	[16]	2004	CPAIOR 2004	13
HentenryckM04 HentenryckM04	Pascal Van Hentenryck, L. Michel	Scheduling Abstractions for Local Search	Yes	[172]	2004	CPAIOR 2004	16
Hooker04 Hooker04	John N. Hooker	A Hybrid Method for Planning and Scheduling	Yes	[177]	2004	CP 2004	12
KovacsV04 KovacsV04	A. Kovács, J. Váncza	Completable Partial Solutions in Constraint Programming and Constraint-Based Scheduling	Yes	[213]	2004	CP 2004	15
LimRX04 LimRX04	A. Lim, B. Rodrigues, Z. Xu	Solving the Crane Scheduling Problem Using Intelligent Search Schemes	Yes	[233]	2004	CP 2004	5
MaraveliasG04 MaraveliasG04	Christos T. Maravelias, Ignacio E. Grossmann	Using MILP and CP for the Scheduling of Batch Chemical Processes	Yes	[257]	2004	CPAIOR 2004	20
Sadykov04 Sadykov04	R. Sadykov	A Hybrid Branch-And-Cut Algorithm for the One-Machine Scheduling Problem	Yes	[323]	2004	CPAIOR 2004	7
Vilim04 Vilim04	P. Vilím	$O(n \log n)$ Filtering Algorithms for Unary Resource Constraint	Yes	[378]	2004	CPAIOR 2004	13
VilimBC04 VilimBC04	P. Vilím, R. Barták, O. Cepek	Unary Resource Constraint with Optional Activities	Yes	[383]	2004	CP 2004	15
VillaverdeP04 VillaverdeP04	K. Villaverde, E. Pontelli	An Investigation of Scheduling in Distributed Constraint Logic Programming	No	[386]	2004	ISCA 2004	6
WolinskiKG04 WolinskiKG04	C. Wolinski, K. Kuchcinski, Maya B. Gokhale	A Constraints Programming Approach to Communication Scheduling on SoPC Architectures	Yes	[399]	2004	DSD 2004	8
WolinskiKG04a WolinskiKG04a	C. Wolinski, K. Kuchcinski, Maya B. Gokhale	A constraints programming approach to communication scheduling on SoPC architectures	No	[400]	2004	FPGA 2004	1
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	[85]	2003	CP 2003	5
Kumar03 Kumar03	T. K. Satish Kumar	Incremental Computation of Resource-Envelopes in Producer-Consumer Models	Yes	[219]	2003	CP 2003	15
OddiPCC03 OddiPCC03	A. Oddi, N. Policella, A. Cesta, G. Cortellessa	Generating High Quality Schedules for a Spacecraft Memory Downlink Problem	Yes	[288]	2003	CP 2003	15
ValleMGT03 ValleMGT03	Carmelo Del Valle, Antonio A. Márquez, Rafael M. Gasca, M. Toro	On Selecting and Scheduling Assembly Plans Using Constraint Programming	Yes	[369]	2003	KES 2003	8
Vilim03 Vilim03	P. Vilím	Computing Explanations for Global Scheduling Constraints	Yes	[377]	2003	CP 2003	1
Wolf03 Wolf03	A. Wolf	Pruning while Sweeping over Task Intervals	Yes	[397]	2003	CP 2003	15
Bartak02 Bartak02	R. Barták	Visopt ShopFloor: On the Edge of Planning and Scheduling	Yes	[33]	2002	CP 2002	16
Bartak02a Bartak02a	R. Barták	Visopt ShopFloor: Going Beyond Traditional Scheduling	Yes	[32]	2002	ERCIM/CologNet 2002	15
BeldiceanuC02 BeldiceanuC02	N. Beldiceanu, M. Carlsson	A New Multi-resource cumulatives Constraint with Negative Heights	Yes	[42]	2002	CP 2002	17
ElkhyariGJ02 ElkhyariGJ02	A. Elkhyari, C. Guéret, N. Jussien	Conflict-Based Repair Techniques for Solving Dynamic Scheduling Problems	Yes	[107]	2002	CP 2002	6
ElkhyariGJ02a ElkhyariGJ02a	A. Elkhyari, C. Guéret, N. Jussien	Solving Dynamic Resource Constraint Project Scheduling Problems Using New Constraint Programming Tools	Yes	[108]	2002	PATAT 2002	24
HookerY02 HookerY02	John N. Hooker, H. Yan	A Relaxation of the Cumulative Constraint	Yes	[182]	2002	CP 2002	5
KamarainenS02 KamarainenS02	O. Kamarainen, Hani El Sakkout	Local Probing Applied to Scheduling	Yes	[190]	2002	CP 2002	17
Muscettola02 Muscettola02	N. Muscettola	Computing the Envelope for Stepwise-Constant Resource Allocations	Yes	[275]	2002	CP 2002	16

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Key	Authors	Title	LC	Cite	Year	Conference	Pages
Vilim02 Vilim02	P. Vilím	Batch Processing with Sequence Dependent Setup Times	Yes	[376]	2002	CP 2002	1
ZhuS02 ZhuS02	Kenny Qili Zhu, Andrew E. Santosa	A Meeting Scheduling System Based on Open Constraint Programming	Yes	[417]	2002	CAiSE 2002	5
VanczaM01 VanczaM01	J. Váncza, A. Márkus	A Constraint Engine for Manufacturing Process Planning	Yes	[374]	2001	CP 2001	15
VerfaillieL01 VerfaillieL01	G. Verfaillie, M. Lemaître	Selecting and Scheduling Observations for Agile Satellites: Some Lessons from the Constraint Reasoning Community Point of View	Yes	[375]	2001	CP 2001	15
AngelsmarkJ00 AngelsmarkJ00	O. Angelsmark, P. Jonsson	Some Observations on Durations, Scheduling and Allen’s Algebra	Yes	[10]	2000	CP 2000	5
KorbaaYG99 KorbaaYG99	O. Korbaa, P. Yim, J. Gentina	Solving transient scheduling problem for cyclic production using timed Petri nets and constraint programming	Yes	[206]	1999	ECC 1999	8
CestaOS98 CestaOS98	A. Cesta, A. Oddi, Stephen F. Smith	Scheduling Multi-capacitated Resources Under Complex Temporal Constraints	Yes	[77]	1998	CP 1998	1
FrostD98 FrostD98	D. Frost, R. Dechter	Optimizing with Constraints: A Case Study in Scheduling Maintenance of Electric Power Units	Yes	[123]	1998	CP 1998	1
GruianK98 GruianK98	F. Gruian, K. Kuchinski	Operation Binding and Scheduling for Low Power Using Constraint Logic Programming	Yes	[155]	1998	EUROMICRO 1998	8
PembertonG98 PembertonG98	Joseph C. Pemberton, Flavius Galiber III	A constraint-based approach to satellite scheduling	No	[298]	1998	DIMACS 1998	14
RodosekW98 RodosekW98	R. Rodosek, M. Wallace	A Generic Model and Hybrid Algorithm for Hoist Scheduling Problems	Yes	[320]	1998	CP 1998	15
BaptisteP97 BaptisteP97	P. Baptiste, Claude Le Pape	Constraint Propagation and Decomposition Techniques for Highly Disjunctive and Highly Cumulative Project Scheduling Problems	Yes	[28]	1997	CP 1997	15
BeckDF97 BeckDF97	J. Christopher Beck, Andrew J. Davenport, Mark S. Fox	Five Pitfalls of Empirical Scheduling Research	Yes	[37]	1997	CP 1997	15
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	[66]	1997	PACT 1997	18
Caseau97 Caseau97	Y. Caseau	Using Constraint Propagation for Complex Scheduling Problems: Managing Size, Complex Resources and Travel	Yes	[75]	1997	CP 1997	4
PapeB97 PapeB97	Claude Le Pape, P. Baptiste	A Constraint Programming Library for Preemptive and Non-Preemptive Scheduling	No	[295]	1997	PACT 1997	20
Colombani96 Colombani96	Y. Colombani	Constraint Programming: an Efficient and Practical Approach to Solving the Job-Shop Problem	Yes	[84]	1996	CP 1996	15
Zhou96 Zhou96	J. Zhou	A Constraint Program for Solving the Job-Shop Problem	Yes	[414]	1996	CP 1996	15
Goltz95 Goltz95	H. Goltz	Reducing Domains for Search in CLP(FD) and Its Application to Job-Shop Scheduling	Yes	[147]	1995	CP 1995	14
Puget95 Puget95	J. Puget	Applications of Constraint Programming	Yes	[313]	1995	CP 1995	4
Simonis95 Simonis95	H. Simonis	The CHIP System and Its Applications	Yes	[343]	1995	CP 1995	4
SimonisC95 SimonisC95	H. Simonis, T. Cornelissens	Modelling Producer/Consumer Constraints	Yes	[345]	1995	CP 1995	14
Touraivane95 Touraivane95	Touraivane	Constraint Programming and Industrial Applications	Yes	[366]	1995	CP 1995	3
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	[187]	1994	ILPS 1994	1
AggounB92 AggounB92	A. Aggoun, N. Beldiceanu	Extending CHIP in order to solve complex scheduling and placement problems	No	[5]	1992	JFPL 1992	1
BaptisteLV92 BaptisteLV92	P. Baptiste, B. Legeard, C. Varnier	Hoist scheduling problem: an approach based on constraint logic programming	Yes	[30]	1992	ICRA 1992	6
ErtlK91 ErtlK91	M. Anton Ertl, A. Krall	Optimal Instruction Scheduling using Constraint Logic Programming	Yes	[109]	1991	PLILP 1991	12

Table 2: Manually Defined Paper Properties

Key	Title	CP System	Data Avail	Sol Avail	Code Avail	Based On	Classification	Constraints
AalianPG23 AalianPG23	Optimization of Short-Term Underground Mine Planning Using Constraint Programming	CP Opt	n		n			?
Bit-Monnot23 Monnot23	Enhancing Hybrid CP-SAT Search for Disjunctive Scheduling	ARIES CP Opt OR-Tools Mistral OR-Tools	y		y	-	JSSP OSSP	-
EfthymiouY23 EfthymiouY23	Predicting the Optimal Period for Cyclic Hoist Scheduling Problems	Mistral OR-Tools	n		n	-	CHSP	-
JuvinHHL23 HHL23	An Efficient Constraint Programming Approach to Pre-emptive Job Shop Scheduling	CP Opt Mistral	ref		y		PJSSP	endBeforeStart span
JuvinHL23 JuvinHL23	Constraint Programming for the Robust Two-Machine Flow-Shop Scheduling Problem with Budgeted Uncertainty	CP Opt Cplex	ref		n	-	Perm FSSP	noOverlap endBeforeStart noOverlap sameSequence cumulative
KameugneFND23 KameugneFND23	Horizontally Elastic Edge Finder Rule for Cumulative Constraint Based on Slack and Density	?	BL PSPLib		n	-	RCPSPs	
KimCMLLP23 KimCMLLP23	Iterated Greedy Constraint Programming for Scheduling Steelmaking Continuous Casting	Gurobi OR-Tools	y		n	-	SCC	alternative
Mehdizadeh-Somarin23 Mehdizadeh-Somarin23	A Constraint Programming Model for a Reconfigurable Job Shop Scheduling Problem with Machine Availability	CP Opt	n		n	-	JSSP RMS	alternative endBeforeStart noOverlap
PerezGSL23 PerezGSL23	A Constraint Programming Model for Scheduling the Unloading of Trains in Ports	custom	n		n	-	SUTP	table disjunctive
PovedaAA23 PovedaAA23	Partially Preemptive Multi Skill/Mode Resource-Constrained Project Scheduling with Generalized Precedence Relations and Calendars	CP Opt MiniZinc Chuffed	y		y		PP-MS-MMRCPPSP/max-cal	
SquillaciPR23 SquillaciPR23	Scheduling Complex Observation Requests for a Constellation of Satellites: Large Neighborhood Search Approaches	Cplex Studio	y		n	-	EOSP	?
TardivoDFMP23 TardivoDFMP23	Constraint Propagation on GPU: A Case Study for the Cumulative Constraint	MiniCPP MiniZinc	PSPLib BL Pack		y	-	RCPSP	cumulative
TasselGS23 TasselGS23	An End-to-End Reinforcement Learning Approach for Job-Shop Scheduling Problems Based on Constraint Programming	custom Choco	ref		y	-	JSSP	noOverlap
WangB23 WangB23	Dynamic All-Different and Maximal Cliques Constraints for Fixed Job Scheduling	FaCiLe	(y)		n	[390]	FJS	-
YuraszeckMC23 YuraszeckMC23	A competitive constraint programming approach for the group shop scheduling problem	CP Opt	ref		n	-	GSSP	noOverlap endBeforeStart
ArmstrongGOS22 ArmstrongGOS22	A Two-Phase Hybrid Approach for the Hybrid Flexible Flowshop with Transportation Times	CP Opt	(y)		-	[13]	$HFFm tt C_{\max}$	endBeforeStart alternative cumulative noOverlap cumulative
BoudreaultSLQ22 BoudreaultSLQ22	A Constraint Programming Approach to Ship Refit Project Scheduling	MiniZinc Chuffed			y	-	RCPSP	
GeitzGSSW22 GeitzGSSW22	Solving the Extended Job Shop Scheduling Problem with AGVs - Classical and Quantum Approaches	firstCS QUBO	y		n	-	JSSP	
LiFJZLL22 LiFJZLL22	Constraint Programming for a Novel Integrated Optimization of Blocking Job Shop Scheduling and Variable-Speed Transfer Robot Assignment	OPL CP Opt	ref		n	-	BJSSP	endBeforeStart alternative noOverlap cumulative
OuelletQ22 OuelletQ22	A MinCumulative Resource Constraint	Choco	y		y	-		minCumulative span
OujanaAYB22 OujanaAYB22	Solving a realistic hybrid and flexible flow shop scheduling problem through constraint programming: industrial case in a packaging company	CP Opt	n		n	-	HFFS	noOverlap endBeforeStart

Table 2: Manually Defined Paper Properties

Key	Title	CP System	Data Avail	Sol Avail	Code Avail	Based On	Classification	Constraints
PopovicCGNC22 PopovicCGNC22	Scheduling the Equipment Maintenance of an Electric Power Transmission Network Using Constraint Programming	CP Opt	n		n	-	TMS	alwaysIn noOverlap
Teppan22 Teppan22	Types of Flexible Job Shop Scheduling: A Constraint Programming Experiment	?	?		?	?	?	?
TouatBT22 TouatBT22	A Constraint Programming Model for the Scheduling Problem with Flexible Maintenance under Human Resource Constraints	?	?		?	?	?	?
WinterMMW22 Winter-MMW22	Modeling and Solving Parallel Machine Scheduling with Contamination Constraints in the Agricultural Industry	Cplex Gurobi CP Opt Sim Anneal	y		y	-	PMSP	alternative noOverlap
ZhangJZL22 ZhangJZL22	Constraint Programming for Modeling and Solving a Hybrid Flow Shop Scheduling Problem	OP Opt	ref		n	-	HFSP	alternative endBeforeStart noOverlap cumulative
AntuoriHHEN21 AntuoriHHEN21	Combining Monte Carlo Tree Search and Depth First Search Methods for a Car Manufacturing Workshop Scheduling Problem	MCTS	y		y			
ArmstrongGOS21 ArmstrongGOS21	The Hybrid Flexible Flowshop with Transportation Times	MiniZinc Chuffed CP Opt SICStus Gecode	y		y	-	$HFFm tt C_{\max}$	cumulative diffn table
Astrand0F21 Astrand0F21	Short-Term Scheduling of Production Fleets in Underground Mines Using CP-Based LNS		ref generated		n	-		-
BenderWS21 BenderWS21	Applying Constraint Programming to the Multi-mode Scheduling Problem in Harvest Logistics	CP Opt	y		n	-	MRCPSP	noOverlap alternative nvalue
GeibingerKKMMW21 GeibingerKKMMW21	Physician Scheduling During a Pandemic	MiniZinc	y		n	-		
GeibingerMM21 GeibingerMM21	Constraint Logic Programming for Real-World Test Laboratory Scheduling	clingcon	y				TLSP RCPSP	disjunctive
HanenKP21 HanenKP21	Two Deadline Reduction Algorithms for Scheduling Dependent Tasks on Parallel Processors	Python	ref		n	-	$P prec, r_i, d_i *$	-
HillTV21 HillTV21	A Computational Study of Constraint Programming Approaches for Resource-Constrained Project Scheduling with Autonomous Learning Effects	CP Opt	PSPLib		n	-	RCPSP	cumulative alternative endBeforeStart
KlankeBYE21 Klanke-BYE21	Combining Constraint Programming and Temporal Decomposition Approaches - Scheduling of an Industrial Formulation Plant	OR-Tools	n		n	-		cumulative circuit noOverlap cumulative
KovacsTKSG21 KovacsTKSG21	Utilizing Constraint Optimization for Industrial Machine Workload Balancing	Gurobi OR-Tools Cplex CP Opt	y		y	-	extended RCPSP	
LacknerMMWW21 LacknerMMWW21	Minimizing Cumulative Batch Processing Time for an Industrial Oven Scheduling Problem	CP Opt Chuffed OR-Tools Gurobi OPL	y		y		OSP	
BarzegaranZP20 BarzegaranZP20	Quality-Of-Control-Aware Scheduling of Communication in TSN-Based Fog Computing Platforms Using Constraint Programming							
GodetLHS20 GodetLHS20	Using Approximation within Constraint Programming to Solve the Parallel Machine Scheduling Problem with Additional Unit Resources							
GroleazNS20 GroleazNS20	Solving the Group Cumulative Scheduling Problem with CPO and ACO	CP Opt ACO	-		-	[154]	GCSP	group cumulative

Table 2: Manually Defined Paper Properties

Key	Title	CP System	Data Avail	Sol Avail	Code Avail	Based On	Classification	Constraints
GroleazNS20a GroleazNS20a	ACO with automatic parameter selection for a scheduling problem with a group cumulative constraint							
Mercier-AubinGQ20 Mercier-AubinGQ20	Leveraging Constraint Scheduling: A Case Study to the Textile Industry	MiniZinc Chuffed	a		a	-		circuit cumulative
NattafM20 NattafM20	Filtering Rules for Flow Time Minimization in a Parallel Machine Scheduling Problem	Cplex CP Opt	-		-	[254]	PTC	alternative noOverlap
TangB20 TangB20	CP and Hybrid Models for Two-Stage Batching and Scheduling	Cplex CP Opt	n		n	-	2BPHFSP	span alwaysIn
WangB20 WangB20	Global Propagation of Transition Cost for Fixed Job Scheduling	FaCiLe	y		n	-	FJS	-
WessenCS20 WessenCS20	Scheduling of Dual-Arm Multi-tool Assembly Robots and Workspace Layout Optimization	Gecode	n		n	-		circuit alldifferent
BadicaBIL19 Badica-BIL19	Exploring the Space of Block Structured Scheduling Processes Using Constraint Logic Programming							
BehrensLM19 BehrensLM19	A Constraint Programming Approach to Simultaneous Task Allocation and Motion Scheduling for Industrial Dual-Arm Manipulation Tasks							
BogaerdtW19 BogaerdtW19	Lower Bounds for Uniform Machine Scheduling Using Decision Diagrams							
ColT19 ColT19	Industrial Size Job Shop Scheduling Tackled by Present Day CP Solvers	CP Opt OR-Tools	y		y	-	JSSP	noOverlap
FrimodigS19 FrimodigS19	Models for Radiation Therapy Patient Scheduling	Mini-Zinc Gecode Cplex	n		n	-		cumulative regular bin-packing
FrohnerTR19 FrohnerTR19	Casual Employee Scheduling with Constraint Programming and Metaheuristics							
GalleguillosKSB19 GalleguillosKSB19	Constraint Programming-Based Job Dispatching for Modern HPC Applications	OR-Tools			y		on-line dispatch	
GeibingerMM19 GeibingerMM19	Investigating Constraint Programming for Real World Industrial Test Laboratory Scheduling							
LiuLH19 LiuLH19	Solving the Talent Scheduling Problem by Parallel Constraint Programming							
MalapertN19 MalapertN19	A New CP-Approach for a Parallel Machine Scheduling Problem with Time Constraints on Machine Qualifications							
MurinR19 MurinR19	Scheduling of Mobile Robots Using Constraint Programming	CP Opt Cplex OPL	y		y		JSPT	endBeforeStart alternative noOverlap
ParkUJR19 ParkUJR19	Developing a Production Scheduling System for Modular Factory Using Constraint Programming							
Tom19 Tom19	Fuzzy Multi-Constraint Programming Model for Weekly Meals Scheduling							
YangSS19 YangSS19	Time Table Edge Finding with Energy Variables							
ArbaouiY18 ArbaouiY18	Solving the Unrelated Parallel Machine Scheduling Problem with Additional Resources Using Constraint Programming							
AstrandJZ18 AstrandJZ18	Fleet Scheduling in Underground Mines Using Constraint Programming							
BenediktSMVH18 BenediktSMVH18	Energy-Aware Production Scheduling with Power-Saving Modes							
DemirovicS18 DemirovicS18	Constraint Programming for High School Timetabling: A Scheduling-Based Model with Hot Starts							
He0GLW18 He0GLW18	A Fast and Scalable Algorithm for Scheduling Large Numbers of Devices Under Real-Time Pricing							

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Key	Title	CP System	Data Avail	Sol Avail	Code Avail	Based On	Classification	Constraints
HoYCLLC18 HoY-CLLC18	A Platform for Dynamic Optimal Nurse Scheduling Based on Integer Linear Programming along with Multiple Criteria Constraints							
KameugneFGOQ18 KameugneFGOQ18	Horizontally Elastic Not-First/Not-Last Filtering Algorithm for Cumulative Resource Constraint							
Laborie18a Laborie18a	An Update on the Comparison of MIP, CP and Hybrid Approaches for Mixed Resource Allocation and Scheduling							
NishikawaSTT18 NishikawaSTT18	Scheduling of Malleable Fork-Join Tasks with Constraint Programming							
NishikawaSTT18a NishikawaSTT18a	Scheduling of Malleable Tasks Based on Constraint Programming							
OuelletQ18 OuelletQ18	A $O(n \log^2 n)$ Checker and $O(n^2 \log n)$ Filtering Algorithm for the Energetic Reasoning							
RiahiNS018 RiahiNS018	Local Search for Flowshops with Setup Times and Blocking Constraints							
Tesch18 Tesch18	Improving Energetic Propagations for Cumulative Scheduling							
BofillCSV17 BofillCSV17	An Efficient SMT Approach to Solve MRCPSP/max Instances with Tight Constraints on Resources							
CappartS17 CappartS17	Rescheduling Railway Traffic on Real Time Situations Using Time-Interval Variables							
GelainPRVW17 Gelain-PRVW17	A Local Search Approach for Incomplete Soft Constraint Problems: Experimental Results on Meeting Scheduling Problems							
GoldwaserS17 GoldwaserS17	Optimal Torpedo Scheduling							
Hooker17 Hooker17	Job Sequencing Bounds from Decision Diagrams							
KletzanderM17 Kletzan-derM17	A Multi-stage Simulated Annealing Algorithm for the Torpedo Scheduling Problem							
LiuCGM17 LiuCGM17	NightSplitter: A Scheduling Tool to Optimize (Sub)group Activities							
Madi-WambaLOBM17 Madi-WambaLOBM17	Green Energy Aware Scheduling Problem in Virtualized Datacenters							
MossigeGSMC17 MossigeGSMC17	Time-Aware Test Case Execution Scheduling for Cyber-Physical Systems							
Pralet17 Pralet17	An Incomplete Constraint-Based System for Scheduling with Renewable Resources							
YoungFS17 YoungFS17	Constraint Programming Applied to the Multi-Skill Project Scheduling Problem							
BonfiettiZLM16 BonfiettiZLM16	The Multirate Resource Constraint							
BoothNB16 BoothNB16	A Constraint Programming Approach to Multi-Robot Task Allocation and Scheduling in Retirement Homes							
CauwelaertDMS16 CauwelaertDMS16	Efficient Filtering for the Unary Resource with Family-Based Transition Times							
FontaineMH16 FontaineMH16	Parallel Composition of Scheduling Solvers							
GilesH16 GilesH16	Solving a Supply-Delivery Scheduling Problem with Constraint Programming							
GingrasQ16 GingrasQ16	Generalizing the Edge-Finder Rule for the Cumulative Constraint							
HechingH16 HechingH16	Scheduling Home Hospice Care with Logic-Based Benders Decomposition							
LimHTB16 LimHTB16	Online HVAC-Aware Occupancy Scheduling with Adaptive Temperature Control							

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Key	Title	CP System	Data Avail	Sol Avail	Code Avail	Based On	Classification	Constraints
Madi-WambaB16 Madi-WambaB16	The TaskIntersection Constraint							
SchuttS16 SchuttS16	Explaining Producer/Consumer Constraints							
SzerediS16 SzerediS16	Modelling and Solving Multi-mode Resource-Constrained Project Scheduling							
Tesch16 Tesch16	A Nearly Exact Propagation Algorithm for Energetic Reasoning in $O(n^2 \log n)$							
BofilGSV15 BofilGSV15	MaxSAT-Based Scheduling of B2B Meetings							
BurtLPS15 BurtLPS15	Scheduling with Fixed Maintenance, Shared Resources and Nonlinear Feedrate Constraints: A Mine Planning Case Study							
DejemeppeCS15 DejemeppeCS15	The Unary Resource with Transition Times							
EvenSH15 EvenSH15	A Constraint Programming Approach for Non-preemptive Evacuation Scheduling							
GayHLS15 GayHLS15	Conflict Ordering Search for Scheduling Problems							
GayHS15 GayHS15	Simple and Scalable Time-Table Filtering for the Cumulative Constraint							
KreterSS15 KreterSS15	Modeling and Solving Project Scheduling with Calendars							
LimBTBB15 LimBTBB15	Large Neighborhood Search for Energy Aware Meeting Scheduling in Smart Buildings							
LombardiBM15 LombardiBM15	Deterministic Estimation of the Expected Makespan of a POS Under Duration Uncertainty							
MelgarejoLS15 MelgarejoLS15	A Time-Dependent No-Overlap Constraint: Application to Urban Delivery Problems							
MurphyMB15 MurphyMB15	Design and Evaluation of a Constraint-Based Energy Saving and Scheduling Recommender System							
PesantRR15 PesantRR15	A Comparative Study of MIP and CP Formulations for the B2B Scheduling Optimization Problem							
PraletLJ15 PraletLJ15	Scheduling Running Modes of Satellite Instruments Using Constraint-Based Local Search							
SialaAH15 SialaAH15	Two Clause Learning Approaches for Disjunctive Scheduling							
VilimLS15 VilimLS15	Failure-Directed Search for Constraint-Based Scheduling							
ZhouGL15 ZhouGL15	On complex hybrid flexible flowshop scheduling problems based on constraint programming							
cpaior-GayHS15 cpaio-GayHS15	Time-Table Disjunctive Reasoning for the Cumulative Constraint							
AlesioNBG14 AlesioNBG14	Worst-Case Scheduling of Software Tasks - A Constraint Optimization Model to Support Performance Testing							
BartoliniBBLM14 BartoliniBBLM14	Proactive Workload Dispatching on the EURORA Supercomputer							
BessiereHMQW14 BessiereHMQW14	Buffered Resource Constraint: Algorithms and Complexity							
BofilIEGPSV14 BofilIEGPSV14	Scheduling B2B Meetings							
BonfiettiLM14 BonfiettiLM14	Disregarding Duration Uncertainty in Partial Order Schedules? Yes, We Can!							
DejemeppeD14 DejemeppeD14	Continuously Degrading Resource and Interval Dependent Activity Durations in Nuclear Medicine Patient Scheduling							
DerrienP14 DerrienP14	A New Characterization of Relevant Intervals for Energetic Reasoning							
DerrienPZ14 DerrienPZ14	A Declarative Paradigm for Robust Cumulative Scheduling							

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Key	Title	CP System	Data Avail	Sol Avail	Code Avail	Based On	Classification	Constraints
DoulabiRP14 Doula- biRP14	A Constraint Programming-Based Column Generation Approach for Operating Room Planning and Scheduling							
FriedrichFMRSS14 FriedrichFMRSS14	Representing Production Scheduling with Constraint Answer Set Programming							
GaySS14 GaySS14	Continuous Casting Scheduling with Constraint Programming							
HoundjiSWD14 Hound- jiSWD14	The StockingCost Constraint							
KoschB14 KoschB14	A New MIP Model for Parallel-Batch Scheduling with Non-identical Job Sizes							
CireCH13 CireCH13	Mixed Integer Programming vs. Logic-Based Benders Decomposition for Planning and Scheduling	CP Opt Cplex	dead		n	-		
GuSS13 GuSS13	A Lagrangian Relaxation Based Forward-Backward Improvement Heuristic for Maximising the Net Present Value of Resource-Constrained Projects	Chuffed	dead			-	RCPSPDC	cumulative maxNVPProp
HeinzKB13 HeinzKB13	Recent Improvements Using Constraint Integer Programming for Resource Allocation and Scheduling							
KelarevaTK13 Kelare- vaTK13	CP Methods for Scheduling and Routing with Time-Dependent Task Costs	MiniZinc CPX G12FD	ref		-	-	LSFRP BPCTOP	alldifferent alldifferentExcept0
LetortCB13 LetortCB13	A Synchronized Sweep Algorithm for the <i>k-dimensional cumulative</i> Constraint	SICStus Choco	PSPlib		-	-	RCPSP	cumulative kDimensionalCumulative
OuelletQ13 OuelletQ13	Time-Table Extended-Edge-Finding for the Cumulative Constraint							
SchuttFS13 SchuttFS13	Scheduling Optional Tasks with Explanation							
cpaior-SchuttFS13 cpaior-SchuttFS13	Explaining Time-Table-Edge-Finding Propagation for the Cumulative Resource Constraint	Mercury G12	PSPlib AT BL Pack KSD15D PackD		-	-	RCPSP	cumulative
BillautHL12 Bil- lautHL12	Complete Characterization of Near-Optimal Sequences for the Two-Machine Flow Shop Scheduling Problem							
BonfiettiLBM12 Bonfi- ettiLBM12	Global Cyclic Cumulative Constraint							
HeinzB12 HeinzB12	Reconsidering Mixed Integer Programming and MIP-Based Hybrids for Scheduling							
IfrimOS12 IfrimOS12	Properties of Energy-Price Forecasts for Scheduling							
LetortBC12 LetortBC12	A Scalable Sweep Algorithm for the cumulative Constraint							
RendlPHPR12 RendlPHPR12	Hybrid Heuristics for Multimodal Homecare Scheduling							
SchuttCSW12 SchuttCSW12	Maximising the Net Present Value for Resource-Constrained Project Scheduling							
SerraNM12 SerraNM12	The Offshore Resources Scheduling Problem: Detailing a Constraint Programming Approach							
SimoninAHL12 Simoni- nAHL12	Scheduling Scientific Experiments on the Rosetta/Philae Mission	MOST Ilog Scheduler	n		n	-		cumulative dataTransfer
ZhangLS12 ZhangLS12	Model and Solution for Hot Strip Rolling Scheduling Problem Based on Constraint Programming Method							
BonfiettiLBM11 Bonfi- ettiLBM11	A Constraint Based Approach to Cyclic RCPSP							
ChapadosJR11 Chapa- dosJR11	Retail Store Workforce Scheduling by Expected Operating Income Maximization							
ClercqPBJ11 Clerc- qPBJ11	Filtering Algorithms for Discrete Cumulative Problems with Overloads of Resource							

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Key	Title	CP System	Data Avail	Sol Avail	Code Avail	Based On	Classification	Constraints
EdisO11 EdisO11	Parallel Machine Scheduling with Additional Resources: A Lagrangian-Based Constraint Programming Approach							
GrimesH11 GrimesH11	Models and Strategies for Variants of the Job Shop Scheduling Problem							
HeinzS11 HeinzS11	Explanations for the Cumulative Constraint: An Experimental Study							
HermenierDL11 HermenierDL11	Bin Repacking Scheduling in Virtualized Datacenters							
KameugneFSN11 KameugneFSN11	A Quadratic Edge-Finding Filtering Algorithm for Cumulative Resource Constraints							
LahimerLH11 LahimerLH11	Climbing Depth-Bounded Adjacent Discrepancy Search for Solving Hybrid Flow Shop Scheduling Problems with Multiprocessor Tasks							
LombardiBMB11 LombardiBMB11	Precedence Constraint Posting for Cyclic Scheduling Problems							
Vilim11 Vilim11	Timetable Edge Finding Filtering Algorithm for Discrete Cumulative Resources							
ZibranR11 ZibranR11	Conflict-Aware Optimal Scheduling of Code Clone Refactoring: A Constraint Programming Approach							
ZibranR11a ZibranR11a	A Constraint Programming Approach to Conflict-Aware Optimal Scheduling of Prioritized Code Clone Refactoring							
BertholdHMLS10 BertholdHMLS10	A Constraint Integer Programming Approach for Resource-Constrained Project Scheduling							
CobanH10 CobanH10	Single-Facility Scheduling over Long Time Horizons by Logic-Based Benders Decomposition							
Davenport10 Davenport10	Integrated Maintenance Scheduling for Semiconductor Manufacturing							
GrimesH10 GrimesH10	Job Shop Scheduling with Setup Times and Maximal Time-Lags: A Simple Constraint Programming Approach							
LombardiM10 LombardiM10	Constraint Based Scheduling to Deal with Uncertain Durations and Self-Timed Execution							
MakMS10 MakMS10	A constraint programming approach for production scheduling of multi-period virtual cellular manufacturing systems							
SchuttW10 SchuttW10	A New $O(n^2 \log n)$ Not-First/Not-Last Pruning Algorithm for Cumulative Resource Constraints							
SunLYL10 SunLYL10	Scheduling Optimization Techniques for FlexRay Using Constraint-Programming							
Acuna-AgostMFG09 Acuna-AgostMFG09	Constraint Programming and Mixed Integer Linear Programming for Rescheduling Trains under Disrupted Operations							
AronssonBK09 AronssonBK09	MILP formulations of cumulative constraints for railway scheduling - A comparative study							
Baptiste09 Baptiste09	Constraint-Based Schedulers, Do They Really Work?							
GrimesHM09 GrimesHM09	Closing the Open Shop: Contradicting Conventional Wisdom							
Laborie09 Laborie09	IBM ILOG CP Optimizer for Detailed Scheduling Illustrated on Three Problems							
LombardiM09 LombardiM09	A Precedence Constraint Posting Approach for the RCPSP with Time Lags and Variable Durations							
MonetteDH09 MonetteDH09	Just-In-Time Scheduling with Constraint Programming							
SchuttFSW09 SchuttFSW09	Why Cumulative Decomposition Is Not as Bad as It Sounds							
ThiruvadyBME09 ThiruvadyBME09	Hybridizing Beam-ACO with Constraint Programming for Single Machine Job Scheduling							

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Key	Title	CP System	Data Avail	Sol Avail	Code Avail	Based On	Classification	Constraints
Vilim09 Vilim09	Edge Finding Filtering Algorithm for Discrete Cumulative Resources in $O(kn \log n) \mathcal{O}(kn \log n)$							
cpaior-Vilim09 cpaio-Vilim09	Max Energy Filtering Algorithm for Discrete Cumulative Resources							
BarlattCG08 BarlattCG08	A Hybrid Approach for Solving Shift-Selection and Task-Sequencing Problems							
BeldiceanuCP08 BeldiceanuCP08	New Filtering for the cumulative Constraint in the Context of Non-Overlapping Rectangles							
DoomsH08 DoomsH08	Gap Reduction Techniques for Online Stochastic Project Scheduling							
HentenryckM08 HentenryckM08	The Steel Mill Slab Design Problem Revisited							
LauLN08 LauLN08	A Combinatorial Auction Framework for Solving Decentralized Scheduling Problems (Extended Abstract)							
MouraSCL08 MouraSCL08	Planning and Scheduling the Operation of a Very Large Oil Pipeline Network							
MouraSCL08a MouraSCL08a	Heuristics and Constraint Programming Hybridizations for a Real Pipeline Planning and Scheduling Problem							
PoderB08 PoderB08	Filtering for a Continuous Multi-Resources cumulative Constraint with Resource Consumption and Production							
WatsonB08 WatsonB08	A Hybrid Constraint Programming / Local Search Approach to the Job-Shop Scheduling Problem							
AkkerDH07 AkkerDH07	A Column Generation Based Destructive Lower Bound for Resource Constrained Project Scheduling Problems							
BeldiceanuP07 BeldiceanuP07	A Continuous Multi-resources <i>cumulative</i> Constraint with Positive-Negative Resource Consumption-Production							
DavenportKRSH07 DavenportKRSH07	An Application of Constraint Programming to Generating Detailed Operations Schedules for Steel Manufacturing							
GarganiR07 GarganiR07	An Efficient Model and Strategy for the Steel Mill Slab Design Problem							
HoeveGSL07 HoeveGSL07	Optimal Multi-Agent Scheduling with Constraint Programming							
KeriK07 KeriK07	Computing Tight Time Windows for RCPSPWET with the Primal-Dual Method							
KrogtLPHJ07 KrogtLPHJ07	Scheduling for Cellular Manufacturing							
Limtanyakul07 Limtanyakul07	Scheduling of Tests on Vehicle Prototypes Using Constraint and Integer Programming							
MonetteDD07 MonetteDD07	A Position-Based Propagator for the Open-Shop Problem							
RossiTHP07 RossiTHP07	Replenishment Planning for Stochastic Inventory Systems with Shortage Cost							
BeniniBGM06 BeniniBGM06	Allocation, Scheduling and Voltage Scaling on Energy Aware MPSoCs							
GomesHS06 GomesHS06	Constraint Programming for Distributed Planning and Scheduling							
KhemmoudjPB06 KhemmoudjPB06	When Constraint Programming and Local Search Solve the Scheduling Problem of Electricité de France Nuclear Power Plant Outages							
KovacsV06 KovacsV06	Progressive Solutions: A Simple but Efficient Dominance Rule for Practical RCPSP							
LiuJ06 LiuJ06	LP-TPOP: Integrating Planning and Scheduling Through Constraint Programming							

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QuSN06	QuSN06	Using Constraint Programming to Achieve Optimal Prefetch Scheduling for Dependent Tasks on Run-Time Reconfigurable Devices							
AbrilSB05	AbrilSB05	Distributed Constraints for Large-Scale Scheduling Problems							
ArtiouchineB05	ArtiouchineB05	Inter-distance Constraint: An Extension of the All-Different Constraint for Scheduling Equal Length Jobs							
CarchraeBF05	CarchraeBF05	Methods to Learn Abstract Scheduling Models							
ChuX05	ChuX05	A Hybrid Algorithm for a Class of Resource Constrained Scheduling Problems							
DilkinaDH05	DilkinaDH05	Extending Systematic Local Search for Job Shop Scheduling Problems							
FortinZDF05	FortinZDF05	Interval Analysis in Scheduling							
FrankK05	FrankK05	Mixed Discrete and Continuous Algorithms for Scheduling Airborne Astronomy Observations							
Geske05	Geske05	Railway Scheduling with Declarative Constraint Programming							
HebrardTW05	HebrardTW05	Computing Super-Schedules							
KovacsEKV05	KovacsEKV05	Proterv-II: An Integrated Production Planning and Scheduling System							
QuirogaZH05	QuirogaZH05	A Constraint Programming Approach to Tool Allocation and Resource Scheduling in FMS							
Vilim05	Vilim05	Computing Explanations for the Unary Resource Constraint							
Wolfs05	Wolfs05	$O(n \log n)$ Overload Checking for the Cumulative Constraint and Its Application							
WuBB05	WuBB05	Scheduling with Uncertain Start Dates							
cp-Hooker05	cp-Hooker05	Planning and Scheduling to Minimize Tardiness							
ArtiguesBF04	ArtiguesBF04	A New Exact Solution Algorithm for the Job Shop Problem with Sequence-Dependent Setup Times							
HentenryckM04	HentenryckM04	Scheduling Abstractions for Local Search							
Hooker04	Hooker04	A Hybrid Method for Planning and Scheduling							
KovacsV04	KovacsV04	Completable Partial Solutions in Constraint Programming and Constraint-Based Scheduling							
LimRX04	LimRX04	Solving the Crane Scheduling Problem Using Intelligent Search Schemes							
MaraveliasG04	MaraveliasG04	Using MILP and CP for the Scheduling of Batch Chemical Processes							
Sadykov04	Sadykov04	A Hybrid Branch-And-Cut Algorithm for the One-Machine Scheduling Problem							
Vilim04	Vilim04	$O(n \log n)$ Filtering Algorithms for Unary Resource Constraint							
VilimBC04	VilimBC04	Unary Resource Constraint with Optional Activities							
VillaverdeP04	VillaverdeP04	An Investigation of Scheduling in Distributed Constraint Logic Programming							
WolinskiKG04	WolinskiKG04	A Constraints Programming Approach to Communication Scheduling on SoPC Architectures							
WolinskiKG04a	WolinskiKG04a	A constraints programming approach to communication scheduling on SoPC architectures							

Table 2: Manually Defined Paper Properties

Key	Title	CP System	Data Avail	Sol Avail	Code Avail	Based On	Classification	Constraints
DannaP03 DannaP03	Structured vs. Unstructured Large Neighborhood Search: A Case Study on Job-Shop Scheduling Problems with Earliness and Tardiness Costs							
Kumar03 Kumar03	Incremental Computation of Resource-Envelopes in Producer-Consumer Models							
OddiPCC03 Odd-iPCC03	Generating High Quality Schedules for a Spacecraft Memory Downlink Problem							
ValleMGT03 ValleMGT03	On Selecting and Scheduling Assembly Plans Using Constraint Programming							
Vilim03 Vilim03	Computing Explanations for Global Scheduling Constraints							
Wolf03 Wolf03	Pruning while Sweeping over Task Intervals							
Bartak02 Bartak02	Visopt ShopFloor: On the Edge of Planning and Scheduling							
Bartak02a Bartak02a	Visopt ShopFloor: Going Beyond Traditional Scheduling							
BeldiceanuC02 BeldiceanuC02	A New Multi-resource cumulatives Constraint with Negative Heights							
ElkhyariGJ02 ElkhyariGJ02	Conflict-Based Repair Techniques for Solving Dynamic Scheduling Problems							
ElkhyariGJ02a ElkhyariGJ02a	Solving Dynamic Resource Constraint Project Scheduling Problems Using New Constraint Programming Tools							
HookerY02 HookerY02	A Relaxation of the Cumulative Constraint							
KamarainenS02 KamarainenS02	Local Probing Applied to Scheduling							
Muscettola02 Muscettola02	Computing the Envelope for Stepwise-Constant Resource Allocations							
Vilim02 Vilim02	Batch Processing with Sequence Dependent Setup Times							
ZhuS02 ZhuS02	A Meeting Scheduling System Based on Open Constraint Programming							
VanczaM01 VanczaM01	A Constraint Engine for Manufacturing Process Planning							
VerfaillieL01 VerfaillieL01	Selecting and Scheduling Observations for Agile Satellites: Some Lessons from the Constraint Reasoning Community Point of View							
AngelsmarkJ00 AngelsmarkJ00	Some Observations on Durations, Scheduling and Allen's Algebra							
KorbaaYG99 KorbaaYG99	Solving transient scheduling problem for cyclic production using timed Petri nets and constraint programming							
CestaOS98 CestaOS98	Scheduling Multi-capacitated Resources Under Complex Temporal Constraints							
FrostD98 FrostD98	Optimizing with Constraints: A Case Study in Scheduling Maintenance of Electric Power Units							
GruianK98 GruianK98	Operation Binding and Scheduling for Low Power Using Constraint Logic Programming							
PembertonG98 PembertonG98	A constraint-based approach to satellite scheduling							
RodosekW98 RodosekW98	A Generic Model and Hybrid Algorithm for Hoist Scheduling Problems							
BaptisteP97 BaptisteP97	Constraint Propagation and Decomposition Techniques for Highly Disjunctive and Highly Cumulative Project Scheduling Problems							
BeckDF97 BeckDF97	Five Pitfalls of Empirical Scheduling Research							
BoucherBVBL97 BoucherBVBL97	Multi-criteria Comparison Between Algorithmic, Constraint Logic and Specific Constraint Programming on a Real Scheduling Problem							
Caseau97 Caseau97	Using Constraint Propagation for Complex Scheduling Problems: Managing Size, Complex Resources and Travel							

Table 2: Manually Defined Paper Properties

Key	Title	CP System	Data Avail	Sol Avail	Code Avail	Based On	Classification	Constraints
PapeB97 PapeB97	A Constraint Programming Library for Preemptive and Non-Preemptive Scheduling							
Colombani96 Colombani96	Constraint Programming: an Efficient and Practical Approach to Solving the Job-Shop Problem							
Zhou96 Zhou96	A Constraint Program for Solving the Job-Shop Problem							
Goltz95 Goltz95	Reducing Domains for Search in CLP(FD) and Its Application to Job-Shop Scheduling							
Puget95 Puget95	Applications of Constraint Programming							
Simonis95 Simonis95	The CHIP System and Its Applications							
SimonisC95 SimonisC95	Modelling Producer/Consumer Constraints							
Touraivane95 Touraivane95	Constraint Programming and Industrial Applications							
JourdanFRD94 JourdanFRD94	Data Alignment and Task Scheduling On Parallel Machines Using Concurrent Constraint Model-based Programming							
AggounB92 AggounB92	Extending CHIP in order to solve complex scheduling and placement problems							
BaptisteLV92 BaptisteLV92	Hoist scheduling problem: an approach based on constraint logic programming							
ErtlK91 ErtlK91	Optimal Instruction Scheduling using Constraint Logic Programming							

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

Work	Concepts	Classification	Constraints	ProgLanguages	CPSystems	Areas	Industries	Benchmarks	Algorithm
AalianPG23 [1]	flow-shop, scheduling, resource, machine, transportation, preempt, make-span, order, activity		cumulative, noOverlap, endBeforeStart, cycle, alwaysIn		CPO, Cplex	steel cable	mining industry	real-world	
AbrilSB05 [3]	scheduling, distributed, multi-agent, order					railway		http://	
Acuna-AgostMFG09 [4]	re-scheduling, scheduling, order, transportation					railway			
AkkerDH07 [370]	resource, make-span, sequence dependent setup, completion-time, precedence, cmax, order, due-date, preempt, release-date, machine, scheduling, lateness, job	RCPSP, parallel machine, single machine	cumulative		Cplex				
AlesioNBG14 [99]	completion-time, job-shop, job, order, task, preempt, open-shop, activity, resource, scheduling, make-span, distributed		alldifferent		Cplex, OPL	automotive		http://, bench- mark	
AngelsmarkJ00 [10]	task, job-shop, order, job, scheduling, resource								
AntuoriHHEN21 [11]	order, job, scheduling, transportation, resource, precedence, release-date, due-date, tardiness, machine, task, job-shop		cycle	Java, C++	Choco Solver, Gecode	automotive, car manufacturing	automotive industry	http://, sup- plementary material, gitlab, https:// benchmark, https://	
ArbaouiY18 [12]	completion-time, make-span, job, order, scheduling, resource, setup-time, machine, sequence dependent setup, cmax	single machine, parallel machine	noOverlap, alternative constraint, cumulative	C++	OZ, Cplex				
ArmstrongGOS21 [13]	completion-time, scheduling, cmax, transportation, sequence dependent setup, flow-shop, precedence, task, resource, job, preempt, job-shop, setup-time, make-span, order, machine	HFF	alternative constraint, diffn, circuit, cycle, cumulative, table constraint, bin-packing	Prolog, Java	Cplex, CHIP, CPO, Chuffed, SICStus, OZ, Gecode, MiniZinc	robot	packaging industry	industrial partner, zenodo, real-world, benchmark, https://, supplementary material, industry partner, instance generator	energetic reasoning
ArmstrongGOS22 [14]	completion-time, scheduling, cmax, transportation, flow-shop, task, resource, re-scheduling, job, make-span, order, machine	HFF, parallel machine	noOverlap, cumulative	Prolog	OPL, SICStus, OZ			real-world, benchmark, https://	
AronssonBK09 [15]	job-shop, task, order, job, transportation		cumulative	Prolog	CHIP, Cplex	railway		http://, real- life, real-world	sweep
ArtiguesBF04 [16]	completion-time, job, precedence, release-date, sequence dependent setup, setup-time, preempt, batch process, scheduling, job-shop, machine, cmax, order, resource, make-span		disjunctive	C++	Ilog Solver, Ilog Scheduler			benchmark	edge-finding
ArtiouchineB05 [18]	completion-time, preempt, make-span, release-date, resource, re-scheduling, scheduling, job-shop, activity, order, precedence, machine, open-shop, job	parallel machine, single machine	disjunctive, cumulative		Ilog Scheduler	aircraft		random instance, generated instance, http://	edge-finding, not-last, not-first

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Work	Concepts	Classification	Constraints	ProgLanguages	CPSystems	Areas	Industries	Benchmarks	Algorithm
Astrand0F21 [20]	resource, scheduling, job, order, task, machine, activity, job-shop, precedence, make-span, open-shop		disjunctive, cycle		Gecode	satellite, agriculture, farming, forestry	mineral industry, potash industry, mining industry	real-world, real-life, https://, benchmark, generated instance	
AstrandJZ18 [21]	order, task, machine, activity, make-span, resource, scheduling	single machine	disjunctive, cumulative, cycle		Gecode	robot, hoist	potash industry	https://	time-tabling
Baptiste09 [25]									
BaptisteLV92 [30]									
BaptisteP97 [28]	task, preempt, release-date, activity, re-scheduling, scheduling, job-shop, precedence, make-span, flow-shop, resource, due-date, job, order	RCPSP	disjunctive, cumulative	C++	Claire, CHIP			benchmark	edge-finder, edge-finding
BarlattCG08 [31]	job-shop, job, flow-shop, setup-time, task, machine, resource, transportation, scheduling					pipeline, automotive		real-world	
Bartak02 [33]	precedence, make-span, machine, activity, continuous-process, lateness, job-shop, resource, earliness, job, scheduling, task, order		disjunctive, cumulative	Prolog	SICStus, OZ	dairies		real-life, http://	edge-finding, time-tabling
Bartak02a [32]	make-span, machine, task, job, tardiness, job-shop, earliness, resource, activity, scheduling, re-scheduling, precedence, order		disjunctive, cumulative		Ilog Scheduler	dairies		benchmark, http:// , real-life	edge-finding, time-tabling
BartoliniBBLM14 [35]	task, scheduling, make-span, activity, job, machine, resource, tardiness		alternative constraint, cumulative			super-computer		http://	
BarzegaranZP20 [36]	resource, distributed, scheduling, order, machine, task, re-scheduling			Java	OR-Tools	automotive, robot		http:// , https://	
BeckDF97 [37]	make-span, job, order, inventory, release-date, job-shop, machine, resource, due-date, activity, re-scheduling, scheduling, task, precedence	single machine	cycle, cumulative			robot		real-world, benchmark	edge-finding
BehrensLM19 [40]	task, multi-agent, machine, scheduling, make-span, distributed, resource, setup-time, order			Python	OR-Tools, OZ, MiniZinc	robot		real-world, http:// , https:// , github	
BeldiceanuC02 [42]	machine, task, activity, producer/consumer, order, scheduling, resource	single machine	cumulative	Prolog	CHIP, OZ, SICStus	crew-scheduling		real-life, benchmark, random instance	sweep
BeldiceanuCP08 [44]	scheduling, order, task, resource		geost, disjunctive, cumulative	Prolog	SICStus, OPL, CHIP	rectangle-packing, perfect-square		benchmark	sweep, edge-finding
BeldiceanuP07 [45]	order, release-date, scheduling, resource, due-date, preempt, task		disjunctive, cumulative						sweep
BenderWS21 [47]	order, activity, scheduling, resource, distributed, machine, job, task, preempt, make-span, setup-time	RCPSP	noOverlap	Python		agriculture		https://	

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Work	Concepts	Classification	Constraints	ProgLanguages	CPSystems	Areas	Industries	Benchmarks	Algorithm
BenediktSMVH18 [49]	scheduling, job-shop, order, machine, resource, job, preempt	parallel machine, machine	noOverlap		Gurobi, OZ	energy-price		generated instance, github, random instance, https://real-life	
BeniniBGM06 [50]	distributed, setup-time, order, task, activity, resource, scheduling, tardiness, precedence, make-span		cycle, cumulative		Ilog Solver, ECLiPSe, CHIP, Cplex, OZ	automotive, pipeline			
BertholdHLMS10 [52]	job, completion-time, preempt, resource, scheduling, order, precedence	RCPSP, psplib	disjunctive, cumulative		Z3, Cplex			http://	
BessiereHMQW14 [53]	machine, scheduling, order, task, resource, job, setup-time		cycle, alldifferent		Choco Solver	satellite	textile industry	real-life, http:// , benchmark	
BillautHL12 [54]	tardiness, job-shop, precedence, make-span, flow-shop, open-shop, resource, due-date, scheduling, job, cmax, setup-time, order, completion-time, release-date, machine	single machine	cycle		Cplex, Mistral			random instance	
Bit-Monnot23 [55]	activity, order, resource, scheduling, distributed, job, job-shop, machine, precedence, lazy clause generation, open-shop, make-span, task	OSP, Open Shop Scheduling Problem, RCPSP	disjunctive, cycle, cumulative		CPO, Mistral, OR-Tools, MiniZinc			https:// , real-world, github, benchmark	
BofillCSV17 [57]	cmax, order, preempt, machine, activity, resource, lazy clause generation, scheduling, precedence, make-span	psplib, RCPSP	cumulative		Z3			http:// , benchmark	energetic reasoning
BofillEGPSV14 [58]	machine, task, lazy clause generation, order, scheduling				Cplex, MiniZinc, Gecode			industrial instance, http://	time-tabling
BofillGSV15 [59]	order, machine, scheduling				Cplex			http:// , industrial instance	time-tabling
BogaerdtW19 [371]	tardiness, precedence, completion-time, job-shop, job, setup-time, order, machine, scheduling	parallel machine, machine	noOverlap	C	OPL, Cplex	railway		http:// , benchmark, https://	
BonfiettiLBM11 [61]	resource, scheduling, job-shop, activity, order, precedence, machine, task, job, make-span	RCPSP	cumulative, cycle		Ilog Solver	robot, hoist		industrial instance, generated instance, http:// , benchmark	
BonfiettiLBM12 [62]	resource, distributed, scheduling, job-shop, activity, order, precedence, machine, job, make-span	RCPSP	cumulative, cycle		Ilog Solver	robot, hoist		http:// , benchmark	time-tabling
BonfiettiLM14 [63]	make-span, machine, task, job-shop, activity, order, job, scheduling, distributed, resource, open-shop, precedence	RCPSP, psplib	cumulative					real-world, benchmark, http://	
BonfiettiZLM16 [64]	resource, scheduling, activity, order, precedence, make-span	RCPSP	disjunctive, cycle, cumulative		CHIP, OR-Tools	automotive	automotive industry, control system industry	github, real-world, https:// , generated instance, benchmark, industrial instance	sweep, edge-finder

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Work	Concepts	Classification	Constraints	ProgLanguages	CPSystems	Areas	Industries	Benchmarks	Algorithm
BoothNB16 [65]	order, distributed, task, resource, activity, machine, scheduling, re-scheduling, precedence		cumulative, disjunctive, noOverlap	C++	Cplex	robot, medical		real-world	
BoudreaultSLQ22 [67]	precedence, lazy clause generation, transportation, task, scheduling, make-span, distributed, activity, machine, order, preempt, resource, cmax	RCPSP, OSP, EOsp, psplib	cumulative, disjunctive		MiniZinc, CHIP, OR-Tools, Chuffed	offshore	ship repair industry	supplementary material, real-life, https://, github, benchmark, generated instance, industrial partner	not-last, energetic reasoning, edge-finding, not-first
BurtLPS15 [70]	machine, scheduling, precedence, order, make-span, task, job, tardiness, completion-time, job-shop, resource	parallel machine, single machine	cumulative, cycle		Gecode, Gurobi, Cplex, MiniZinc			real-world, benchmark, http://, industry partner	
CappartS17 [73]	task, re-scheduling, order, scheduling, resource, job-shop, machine, completion-time, activity, precedence, job	TMS	span constraint, alternative constraint, cumulative, noOverlap		OZ, OPL	railway		real-life, random instance, bitbucket, https://	
CarchraeBF05 [74]	task, order, make-span, scheduling								
Caseau97 [75]	job-shop, resource, job, scheduling, task, preempt, make-span, order		cumulative			robot		benchmark	edge-finding
CauwelaertDMS16 [76]	batch process, precedence, task, completion-time, scheduling, make-span, activity, job, job-shop, machine, sequence dependent setup, setup-time, order, preempt, resource		cumulative, disjunctive	Java		container terminal		http:// , https:// , benchmark, real-life, bitbucket	not-last, edge-finding, not-first
CestaOS98 [77]	resource, scheduling, job					robot			
ChapadosJR11 [78]	task, activity, order, scheduling		cycle, cumulative, disjunctive, cumulative		OPL		retail industry		time-tabling
ChuX05 [79]	release-date, due-date, completion-time, scheduling, machine, resource, order, job	single machine	disjunctive, cumulative		ECLiPSe				
CireCH13 [80]	job, tardiness, scheduling, task, order, make-span, machine, precedence, resource		cumulative, circuit		OPL, Cplex, OZ				
ClercPB11 [81]	activity, resource, scheduling, precedence, distributed, completion-time, release-date, due-date, order		cumulative, alldifferent	Java	Choco Solver, CHIP			http:// , benchmark	energetic reasoning, time-tabling, sweep, edge-finding
CobanH10 [82]	re-scheduling, scheduling, preempt, make-span, job, tardiness, distributed, order		disjunctive, circuit		OPL, Cplex				
ColT19 [83]	precedence, job-shop, make-span, scheduling, machine, resource, order, job, earliness	JSSP	disjunctive, noOverlap	Java	OR-Tools, MiniZinc, CPO			real-world, https:// , benchmark, http:// , github	
Colombani96 [84]	scheduling, job, task, preempt, release-date, due-date, job-shop, precedence, order, machine, activity, resource		disjunctive		CHIP				

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Work	Concepts	Classification	Constraints	ProgLanguages	CPSystems	Areas	Industries	Benchmarks	Algorithm
DannaP03 [85]	order, job-shop, machine, resource, activity, tardiness, scheduling, earliness, job		disjunctive		Cplex, Ilog Scheduler, Ilog Solver			benchmark	
Davenport10 [87]	earliness, scheduling, tardiness, resource, completion-time, release-date, due-date, order				Cplex	semiconductor			
DavenportKRS07 [88]	precedence, resource, scheduling, job-shop, make to order, sequence dependent setup, setup-time, inventory, order, preempt, activity, job, machine		disjunctive, bin-packing	C++	Cplex, CHIP		steel industry		
DejemeppeCS15 [92]	resource, preempt, job-shop, precedence, sequence dependent setup, make-span, setup-time, order, job, tardiness, machine, task, completion-time, activity, release-date, scheduling	single machine	disjunctive, cycle, cumulative			container terminal		generated instance, http:// , https:// , benchmark, real-world, bitbucket	edge-finding, not-first, not-last
DejemeppeD14 [93]	precedence, setup-time, activity, order, resource, scheduling, job, job-shop, make-span		cumulative			patient, medical		https:// , bitbucket	
DemirovicS18 [95]	precedence, scheduling, task, activity, order, resource		cumulative, disjunctive		Gurobi, MiniZinc, OZ			real-world, https:// , benchmark, http://	time-tabling
DerrienP14 [97]	make-span, order, activity, scheduling, resource	CuSP, psplib	cumulative	Java	Choco, CHIP	Solver,		random instance	energetic reasoning, edge-finding, sweep
DerrienPZ14 [98]	re-scheduling, precedence, job, make-span, order, machine, activity, resource, scheduling	RCPSP, CuSP	cumulative		Choco, CHIP	Solver,		http:// , random instance, benchmark, real-world	sweep
DilkinaDH05 [100]	job-shop, precedence, make-span, order, machine, scheduling, job				OPL			http://	
DoomsH08 [102]	scheduling, job, task, order, job-shop, machine, resource, activity, completion-time	RCPSP					services industry		
DoulabiRP14 [103]	activity, resource, due-date, scheduling, order, task	OSP	bin-packing		Cplex	medical, patient, nurse			
EdisO11 [105]	flow-time, task, job, due-date, tardiness, make-span, lateness, activity, completion-time, resource, scheduling, machine, preempt, earliness	parallel machine	bin-packing, cumulative, noOverlap		OPL, OZ, Cplex				
EfthymiouY23 [106]	order, scheduling, job, job-shop, machine, setup-time, re-scheduling, make-span, task	JSSP, CHSP	disjunctive, cycle, cumulative	Python	OPL, OR-Tools	satellite, pipeline, hoist, electroplating		https:// , industrial instance, generated instance, benchmark, random instance, real-life	
ElkhayriGJ02 [107]	task, activity, resource, scheduling, machine, precedence, preempt, due-date, re-scheduling, make-span	RCPSP	disjunctive, table constraint, cumulative						

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Work	Concepts	Classification	Constraints	ProgLanguages	CPSystems	Areas	Industries	Benchmarks	Algorithm
ElkhyariGJ02a [108]	order, scheduling, resource, open-shop, precedence, due-date, task, activity, re-scheduling	RCPSP, psplib	disjunctive, cumulative		OPL, OZ			real-life, http:// , benchmark	time-tabling
ErtlK91 [109]	task, setup-time, resource, scheduling, machine, order		cycle	Prolog		pipeline		benchmark, real-world	
EvenSH15 [111]	scheduling, task, preempt, transportation, machine, distributed, order, resource, completion-time	SCC	cumulative, disjunctive		Choco Solver, OPL			real-world, real-life, http://	sweep
FontaineMH16 [117]	job-shop, precedence, scheduling, machine, completion-time, task, order, resource, make-span, job	parallel machine	disjunctive		MiniZinc, CHIP, Gurobi			https:// , benchmark	
FortinZDF05 [118]	scheduling, temporal constraint reasoning, task, precedence, make-span, order, activity, resource	psplib						http://	
FrankK05 [119]	job, scheduling, task, order, precedence, due-date, resource	EOSP, OSP	cycle			satellite, aircraft		benchmark	
FrimodigS19 [121]	job-shop, order, task, machine, resource, scheduling, job		bin-packing, cumulative, regular expression	Python	CHIP, Cplex, Gecode, OZ, MiniZinc	patient, nurse, radiation therapy, medical, physician nurse		benchmark, real-world, https://	
FrohnerTR19 [122]	order, scheduling, distributed			Java, Python	MiniZinc, Gurobi, Gecode			benchmark, https:// , real-world	
FrostD98 [123]	scheduling, order						power industry		
GalleguillosKSB19 [124]	distributed, job, resource, machine, order, re-scheduling, activity, make-span, scheduling	JSSP	cumulative, alternative constraint	Python	OZ, OR-Tools	super-computer, datacenter		http:// , https://	
GarganiR07 [125]	order, inventory, resource, machine		bin-packing	C++	OPL	steel mill	steel industry	real-life, http://	
GayHLS15 [128]	precedence, scheduling, task, order, make-span, resource, activity	OSP, RCPSP, psplib	cumulative, disjunctive					benchmark, bit-bucket	edge-finding, time-tabling
GayHS15 [129]	task, order, preempt, scheduling, precedence, resource		table constraint, disjunctive, cumulative		CHIP, OR-Tools, Gecode, Choco Solver			http:// , bit-bucket, https://	time-tabling, sweep
GaySS14 [131]	manpower, precedence, resource, job, job-shop, order, make-span, setup-time, activity, continuous-process, completion-time, scheduling, machine	OSP	disjunctive, cycle, cumulative			steel mill		real-life	sweep
GeibingerKKMMW21 [133]	distributed, scheduling	OSP			MiniZinc, Gecode, Cplex, OR-Tools, Gurobi	medical, nurse, physician, patient, COVID	pharmaceutical industry	real-world, https:// , http://	
GeibingerMM19 [135]	precedence, release-date, due-date, make-span, task, completion-time, activity, re-scheduling, order, job, scheduling, resource	RCPSP	noOverlap, cumulative, alternative constraint, endBeforeStart	Java	Cplex, MiniZinc, CPO, Gecode	automotive		generated instance, http:// , real-world, https:// , benchmark, industrial partner, real-life	time-tabling

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Work	Concepts	Classification	Constraints	ProgLanguages	CPSystems	Areas	Industries	Benchmarks	Algorithm
GeibingerMM21 [136]	precedence, release-date, due-date, lazy clause generation, tardiness, machine, task, completion-time, activity, order, job, scheduling, resource	RCPPSP	disjunctive, cumulative		Chuffed, Cplex, CPO	nurse		generated instance, real-world, github, benchmark, real-life	time-tabling
GeitzGSSW22 [137]	lazy clause generation, sequence dependent setup, job-shop, precedence, make-span, batch process, resource, transportation, scheduling, job, setup-time, lateness, order, task, preempt, completion-time, machine, producer/consumer	RCPPSP, single machine, JSSP	cumulative		OPL, OZ	robot		http://, real-world, real-life, https://, github	sweep, not-last
GelainPRVW17 [138]	scheduling, order, resource							http://, real-life, benchmark	
Geske05 [139]	distributed, re-scheduling, task, job, job-shop, order, activity, resource, scheduling, machine, lateness		cumulative	Prolog	CHIP, SICStus	railway		real-life, http://	
GilesH16 [140]	transportation, setup-time, task, order, inventory, resource, activity, scheduling		disjunctive, cumulative		Cplex	pipeline	chemical processing industry, petro-chemical industry, chemical industry		
GodetLHS20 [143]	completion-time, make-span, setup-time, job, order, cmax, scheduling, resource, machine, release-date, lazy clause generation, task	PMSP, single machine, parallel machine	bin-packing, disjunctive, cumulative, alldifferent		OZ, CHIP, Chuffed, Choco Solver	satellite		generated instance, benchmark, https://, real-life, github	time-tabling, not-last
GoldwaserS17 [146]	machine, lazy clause generation, transportation, due-date, order, resource, scheduling	OSP	cumulative, disjunctive	Python	Gecode, Gurobi	torpedo	steel industry	github, instance generator, generated instance, http://, https://	
Goltz95 [147]	precedence, task, job, due-date, job-shop, order, completion-time, resource, scheduling, machine		disjunctive, cumulative	Prolog	CHIP			benchmark	edge-finding
GomesHS06 [148]	task, distributed, scheduling, multi-agent, order				Ilog Solver			real-life	
GrimesH10 [149]	task, job, job-shop, flow-shop, make-span, setup-time, open-shop, precedence, cmax, order, batch process, resource, machine, scheduling, sequence dependent setup	Open Shop Scheduling Problem	cumulative, disjunctive, cycle		OZ		steel industry	benchmark	edge-finding, time-tabling
GrimesH11 [150]	task, job, tardiness, job-shop, earliness, flow-shop, lazy clause generation, make-span, completion-time, open-shop, precedence, cmax, order, due-date, resource, release-date, machine, scheduling	RCPPSP	cumulative, disjunctive		OZ, Ilog Solver, OPL, Cplex, Ilog Scheduler			benchmark, http://	edge-finding
GrimesHM09 [151]	precedence, open-shop, job, order, scheduling, resource, make-span, machine, task, job-shop	OSP, Open Shop Scheduling Problem	disjunctive	Java	Mistral, Ilog Scheduler, Choco Solver			benchmark	edge-finding, not-last

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

Work	Concepts	Classification	Constraints	ProgLanguages	CPSystems	Areas	Industries	Benchmarks	Algorithm
GroleazNS20 [154]	tardiness, job-shop, precedence, order, resource, scheduling, inventory, job, setup-time, preempt, release-date, due-date, machine	GCSP	cumulative, cycle, circuit, noOverlap		CHIP, OR-Tools, CPO		food industry	benchmark, industrial instance, https://	
GruianK98 [155]	activity, re-scheduling, order, resource, scheduling, task		cycle, circuit, diffn, cumulative		OPL, CHIP	pipeline, aircraft		benchmark	
GuSS13 [156]	distributed, scheduling, machine, resource, order, activity, lazy clause generation, precedence, make-span	RCPSPDC, single machine, RCPSP	cumulative					benchmark	time-tabling, edge-finder, edge-finding
HanenKP21 [159]	machine, scheduling, precedence, cmax, order, make-span, release-date, lateness, task, job, tardiness, completion-time, job-shop, due-date, preempt, resource	parallel machine, CuSP, RCPSP	cumulative	Python	Claire	pipeline		generated instance, https:// , random instance	energetic reasoning
He0GLW18 [161]	multi-agent, distributed, order, machine, re-scheduling, scheduling, precedence, transportation			Python	Gurobi	real-time pricing, energy-price		real-world, bit-bucket, http:// , https://	
HebrardTW05 [162]	job-shop, job, order, machine, scheduling								
HechingH16 [163]	scheduling, task, re-scheduling, job, order, manpower	OSP	circuit, noOverlap		OZ, Cplex, CHIP	medical, patient		real-world	
HeinzB12 [164]	precedence, earliness, job, order, release-date, machine, resource, due-date, activity, completion-time, tardiness, scheduling	single machine, PTC	cumulative, cycle, alternative constraint		Ilog Scheduler, CHIP, Ilog Solver, OPL, Cplex				
HeinzKB13 [165]	job-shop, order, resource, release-date, machine, scheduling, job, tardiness	single machine, PTC	cumulative		OPL, Cplex				
HeinzS11 [167]	job, order, machine, resource, completion-time, scheduling, preempt	RCPSP, psplib	cumulative, disjunctive		CHIP, Cplex			benchmark, http://	time-tabling, energetic reasoning
HentenryckM04 [172]	activity, job, scheduling, resource, open-shop, precedence, due-date, make-span, order, tardiness, machine, task, job-shop, completion-time		disjunctive, cycle, cumulative					benchmark	
HentenryckM08 [173]	order		bin-packing			steel mill			
HermenierDL11 [174]	order, scheduling, distributed, machine, task, completion-time, producer/consumer, resource, precedence	FJS	cumulative, table constraint, bin-packing, alldifferent, disjunctive, cycle		OZ, Solver	Choco	datacenter	http://	
HillTV21 [175]	flow-shop, machine, activity, lazy clause generation, resource, job, scheduling, task, preempt, order, precedence, release-date, make-span	single machine, RCPSP, psplib	alternative constraint, cumulative, cycle					https:// , real-world	
HoeveGSL07 [373]	order, multi-agent, scheduling, resource, distributed, task, re-scheduling, job-shop, precedence, job, machine		disjunctive		Ilog Scheduler, Cplex			benchmark, http://	edge-finding

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

Work	Concepts	Classification	Constraints	ProgLanguages	CPSystems	Areas	Industries	Benchmarks	Algorithm
Hooker04 [177]	make-span, distributed, order, release-date, machine, resource, tardiness, scheduling, task, precedence		cumulative, disjunctive, circuit		OPL, Cplex, Ilog Scheduler			random instance	
Hooker17 [181]	due-date, job, order, resource, scheduling, tardiness		circuit		OZ			benchmark, random instance	
HookerY02 [182]	job, machine, order, resource, scheduling	RCPSP	cumulative, disjunctive					http://	
HoundjiSWD14 [183]	due-date, inventory, machine, order, precedence, resource, scheduling, transportation	single machine	circuit					bitbucket, generated instance, http://, https://, real-life	
IfrimOS12 [185]	distributed, due-date, job, machine, order, re-scheduling, resource, scheduling, task		disjunctive			datacenter, energy-price			
JuvinHHL23 [188]	cmax, completion-time, due-date, flow-shop, job, job-shop, machine, make-span, order, precedence, preempt, resource, scheduling, setup-time, task	JSSP, PJSSP, parallel machine	alldifferent, cumulative, disjunctive, endBeforeStart, noOverlap	C++	CPO, Mistral			benchmark, github, http://, https://, supplementary material	edge-finding, not-first, not-last
JuvinHL23 [189]	cmax, completion-time, flow-shop, job, job-shop, machine, make-span, order, precedence, scheduling, setup-time, tardiness, task		endBeforeStart, noOverlap		CPO, Cplex			https://, real-world	
KamarainenS02 [190]	activity, earliness, job, job-shop, machine, order, precedence, preempt, resource, scheduling, transportation	KRFP			ECLiPSe			benchmark, http://, real-world	
KameugneFGOQ18 [192]	cmax, completion-time, make-span, order, precedence, resource, scheduling, task	CuSP, RCPSP	cumulative, disjunctive	Java	CHIP, Solver	Choco		benchmark, http://, https://, real-world	energetic reasoning, not-first, not-last, sweep, time-tabling
KameugneFND23 [193]	cmax, completion-time, lazy clause generation, machine, make-span, order, precedence, preempt, resource, scheduling, task	CTW, CuSP, RCPSP, psplib	cumulative, disjunctive	Java	CHIP, Solver	Choco		benchmark, http://, https://	edge-finder, edge-finding, energetic reasoning, not-first, not-last, sweep, time-tabling
KameugneFSN11 [194]	completion-time, job, job-shop, make-span, order, precedence, preempt, release-date, resource, scheduling, task	CuSP, RCPSP, psplib	cumulative, disjunctive		Gecode			benchmark, http://	edge-finding, not-first, not-last, time-tabling
KelarevaTK13 [197]	activity, inventory, lazy clause generation, make-span, order, precedence, re-scheduling, resource, scheduling, setup-time, tardiness, task, transportation	BPCTOP, Bulk Port Cargo Throughput Optimisation Problem, LS-FRP, Liner Shipping Fleet Repositioning Problem	alldifferent		Cplex, MiniZinc, OZ	earth observation, satellite		http://, real-world	

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Work	Concepts	Classification	Constraints	ProgLanguages	CPSystems	Areas	Industries	Benchmarks	Algorithm
KeriK07 [199]	activity, cmax, due-date, earliness, job, job-shop, make-span, order, precedence, resource, scheduling, tardiness, temporal constraint reasoning	RCPSP	cycle	C++				http://	edge-finding
KhemmoudjPB06 [201]	distributed, order, resource, scheduling, stock level		cumulative, cycle	C++	CHIP			real-world	
KimCMLLP23 [202]	distributed, due-date, earliness, job, job-shop, machine, make-span, open-shop, order, precedence, scheduling, setup-time, tardiness, transportation	SCC, parallel machine	noOverlap	Python	Gurobi, OR-Tools		steel industry	benchmark, https://, real-world, zenodo	
KlankeBYE21 [203]	activity, batch process, completion-time, due-date, job, job-shop, machine, make-span, order, producer/consumer, re-scheduling, resource, scheduling, task		circuit, cumulative, disjunctive, noOverlap	Python	CHIP, Gurobi, OR-Tools		food-processing industry	benchmark, https://, random instance, real-life	
KletzanderM17 [204]	machine, order, resource, scheduling, transportation	parallel machine			OZ	torpedo	steel industry	http://	
KorbaaYG99 [206]	flow-shop, job, job-shop, machine, make-span, order, resource, scheduling, task, transportation		circuit, cycle	Prolog	CHIP, Solver, OZ	ilog	hoist, robot		
KoschB14 [208]	batch process, cmax, completion-time, distributed, due-date, job, job-shop, lateness, machine, make-span, multi-agent, order, release-date, resource, scheduling	RCPSP, single machine	bin-packing, cumulative, disjunctive	Java	Choco Solver, Cplex, OZ		semiconductor	benchmark	
KovacsEKV05 [211]	job, job-shop, precedence, resource, scheduling, setup-time							real-life	
KovacsTKSG21 [215]	distributed, due-date, flow-shop, inventory, job, job-shop, machine, order, precedence, preempt, re-scheduling, release-date, resource, scheduling, tardiness, task	RCPSP, single machine	cumulative		Cplex, Gurobi, OR-Tools			benchmark, github, http://, https://, real-world, supplementary material	
KovacsV04 [213]	job, job-shop, machine, make-span, order, precedence, resource, scheduling, task	single machine	cumulative, disjunctive		Ilog Scheduler			benchmark, http://, industrial partner, real-life	edge-finding
KovacsV06 [214]	earliness, job, job-shop, machine, make-span, order, precedence, resource, scheduling, setup-time, tardiness, task	RCPSP, single machine	cumulative		Ilog Scheduler	automotive		benchmark, generated instance, industrial partner	
KreterSS15 [216]	activity, completion-time, lazy clause generation, machine, make-span, order, preempt, resource, scheduling, task	OSP, RCPSP, parallel machine	cumulative, diffn		CHIP, Chuffed, Cplex, MiniZinc			benchmark, http://	
KrogtLPHJ07 [372]	activity, due-date, inventory, job, job-shop, machine, order, precedence, resource, scheduling		circuit	Prolog	OPL	aircraft, semiconductor		real-world	
Kumar03 [219]	activity, order, producer/consumer, resource, scheduling		cycle						bi-partite matching, max-flow

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Work	Concepts	Classification	Constraints	ProgLanguages	CPSystems	Areas	Industries	Benchmarks	Algorithm
Laborie09 [220]	activity, due-date, earliness, inventory, job, job-shop, machine, order, precedence, preempt, release-date, resource, scheduling, sequence dependent setup, setup-time, tardiness, task		alternative constraint, cumulative, disjunctive, endBeforeStart, noOverlap	C	CPO, OPL, OZ	aircraft, satellite		benchmark, http:// , real-world	
Laborie18a [221]	due-date, job, machine, precedence, release-date, resource, scheduling, task		alternative constraint, cumulative		CPO, Ilog Scheduler, OPL			benchmark, http:// , https:// , real-life, real-world	energetic reasoning
LacknerMMWW21 [223]	batch process, due-date, earliness, flow-shop, job, lateness, machine, make-span, order, release-date, scheduling, setup-time, tardiness, task	OSP, parallel machine, single machine	cumulative, endBeforeStart, noOverlap		CPO, Chuffed, Cplex, Gurobi, MiniZinc, OPL, OR-Tools, OZ	oven scheduling, semiconductor	electronics industry, manufacturing industry, steel industry	benchmark, https:// , industrial partner, instance generator, random instance, real-life, supplementary material	
LahimerLH11 [225]	cmax, completion-time, job, machine, make-span, order, precedence, preempt, resource, scheduling, task	RCPSP, parallel machine	disjunctive	C++	Ilog Scheduler			benchmark, http://	energetic reasoning
LauLN08 [226]	distributed, flow-shop, inventory, job, job-shop, machine, order, resource, scheduling, transportation							benchmark, real-world	
LetortBC12 [228]	machine, make-span, order, precedence, resource, scheduling, task	psplib	bin-packing, cumulative, geost	Java, Prolog	CHIP, Choco Solver, SICStus	datacenter		benchmark, http:// , random instance	edge-finding, sweep
LetortCB13 [229]	machine, make-span, order, precedence, resource, scheduling, task	RCPSP, psplib	bin-packing, cumulative, disjunctive	Java, Prolog	Choco Solver, SICStus			benchmark, http:// , random instance	edge-finding, energetic reasoning, sweep
LiFJZLL22 [231]	batch process, buffer-capacity, completion-time, distributed, flow-shop, flow-time, job, job-shop, machine, make-span, order, scheduling, setup-time, tardiness, task, transportation	single machine			OPL, OZ	robot		benchmark	
LimBTBB15 [235]	earliness, job, job-shop, machine, multi-agent, order, re-scheduling, scheduling, tardiness				OPL	HVAC		benchmark, http://	time-tabling
LimHTB16 [234]	activity, distributed, machine, multi-agent, order, re-scheduling, scheduling		cumulative		OPL	HVAC, energy-price, real-time pricing		http:// , real-world	
LimRX04 [233]	completion-time, job, machine, order, preempt, scheduling, transportation				OZ	container terminal		generated instance	
Limtanyakul07 [236]	due-date, job, machine, make-span, order, precedence, release-date, resource, scheduling, task		cumulative		OPL	robot		real-life	energetic reasoning
LiuCGM17 [239]	activity, cmax, machine, order, scheduling, task, transportation			Python	MiniZinc, OPL, OR-Tools		tourism industry	github, http:// , https://	
LiuJ06 [240]	make-span, order, resource, scheduling, task		cycle, disjunctive						
LiuLH19 [238]	order, resource, scheduling				Choco Solver, OZ			benchmark, https://	time-tabling

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Work	Concepts	Classification	Constraints	ProgLanguages	CPSystems	Areas	Industries	Benchmarks	Algorithm
LombardiBM15 [241]	activity, completion-time, distributed, job, job-shop, machine, make-span, order, precedence, resource, scheduling, task	JSSP, RCPSP, psplib						benchmark, real-world	
LombardiBMB11 [242]	activity, completion-time, machine, make-span, order, precedence, resource, scheduling, task	RCPSP	cumulative, cycle	C++		hoist		benchmark, industrial instance, real-life	
LombardiM09 [243]	activity, completion-time, make-span, order, precedence, preempt, resource, scheduling, task	RCPSP			CHIP, Solver	Ilog		instance generator, real-world	
LombardiM10 [244]	activity, completion-time, make-span, order, precedence, resource, scheduling, task	RCPSP	cumulative, disjunctive		Ilog Solver			benchmark, real-world	
Madi-WambaB16 [251]	job, order, precedence, resource, scheduling, task		cumulative	Java	CHIP, Solver	Choco		benchmark, generated instance, http://, https://, random instance, real-world	
Madi-WambaLOBM17 [252]	activity, distributed, job, machine, order, precedence, re-scheduling, resource, scheduling, task		bin-packing, cumulative	Prolog	SICStus	datacenter		real-world	sweep
MakMS10 [253]	activity, due-date, inventory, job, machine, order, precedence, resource, scheduling, task, transportation		cycle						
MalapertN19 [254]	cmax, completion-time, flow-time, job, machine, make-span, order, resource, scheduling, sequence dependent setup, setup-time, task	PMSP, PTC, parallel machine, single machine	alternative constraint, alwaysIn, cumulative, noOverlap		CPO, Cplex	semiconductor		benchmark, generated instance, http://, https://, industrial instance	
MaraveliasG04 [257]					OZ				
Mehdizadeh-Somarin23 [260]	cmax, completion-time, flow-shop, job, job-shop, machine, make-span, multi-agent, order, precedence, preempt, re-scheduling, scheduling, setup-time, tardiness, task	JSSP, parallel machine, single machine		Python	Cplex, OZ	COVID, robot		https://, random instance	
MelgarejoLS15 [6]	job, machine, order, precedence, resource, scheduling, setup-time, tardiness, task, transportation	single machine	alldifferent, circuit, disjunctive, noOverlap, table constraint		Cplex, OZ			benchmark, http://, real-world	
Mercier-AubinGQ20 [263]	activity, completion-time, due-date, earliness, job, job-shop, lazy clause generation, machine, make-span, order, precedence, preempt, resource, scheduling, sequence dependent setup, setup-time, tardiness, task	RCPSP	circuit, cumulative, cycle, disjunctive	C++, Python	MiniZinc, OPL		manufacturing industry, textile industry	http://, https://, industrial instance, industrial partner	
MonetteDD07 [265]	completion-time, job, job-shop, machine, make-span, no preempt, open-shop, order, precedence, preempt, resource, scheduling, task	OSP, Open Shop Scheduling Problem	disjunctive		Gecode			benchmark	edge-finding, not-first, not-last

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Work	Concepts	Classification	Constraints	ProgLanguages	CPSystems	Areas	Industries	Benchmarks	Algorithm
MonetteDH09 [266]	activity, completion-time, distributed, due-date, earliness, job, job-shop, machine, make-span, order, precedence, preempt, release-date, resource, scheduling, tardiness, task		cumulative, cycle, disjunctive					benchmark	not-last
MossigeGSMC17 [269]	activity, completion-time, distributed, job, job-shop, machine, make-span, order, precedence, preempt, resource, scheduling, task	FJS, RCPSP, single machine	cumulative, cycle, disjunctive	Prolog	CHIP, SICStus	rectangle-packing, robot		benchmark, generated instance, http:// , industrial partner, random instance, real-world	
MouraSCL08 [271]	activity, distributed, inventory, order, precedence, preempt, resource, scheduling, transportation		cycle, disjunctive, table constraint	C++	Ilog Scheduler, Ilog Solver, OZ	pipeline			max-flow
MouraSCL08a [270]	distributed, due-date, inventory, order, re-scheduling, resource, scheduling, transportation		cumulative, disjunctive	C++	Ilog Scheduler, Ilog Solver	pipeline		benchmark, real-world	
MurinR19 [273]	activity, completion-time, job, job-shop, machine, make-span, order, precedence, resource, scheduling, setup-time, task, transportation	JSPT	alternative constraint, endBeforeStart, noOverlap		Cplex, OPL	patient, robot		benchmark, github, https:// , real-life	
MurphyMB15 [274]	activity, machine, order, re-scheduling, resource, scheduling, task		circuit, cumulative, cycle, disjunctive	Java	CHIP, Solver	Choco		http:// , real-world	
Muscettola02 [275]	activity, cmax, job, job-shop, order, precedence, resource, scheduling		cycle					http://	edge-finding, max-flow
NattafM20 [278]	completion-time, flow-time, job, machine, make-span, order, resource, scheduling, setup-time	PMSP, parallel machine, PTC, single machine	cumulative, noOverlap		CPO, Cplex	semiconductor		benchmark, http:// , https:// , industrial instance	
NishikawaSTT18 [280]	activity, distributed, make-span, order, precedence, resource, scheduling, task		alternative constraint, endBeforeStart		Cplex, OZ	pipeline, robot		benchmark, https:// , real-world	
NishikawaSTT18a [281]	activity, distributed, make-span, order, precedence, re-scheduling, resource, scheduling, task		alternative constraint, endBeforeStart		Cplex, OZ	nurse, pipeline, robot		benchmark, https:// , real-life, real-world	
OddiPCC03 [288]	activity, completion-time, distributed, machine, order, precedence, preempt, resource, scheduling, task	single machine	cycle	Java		earth observation, satellite		benchmark, http://	
OuelletQ13 [289]	completion-time, make-span, order, precedence, preempt, resource, scheduling, task	CuSP, RCPSP, psplib	cumulative, disjunctive		CHIP, Solver	Choco		benchmark, http://	edge-finder, edge-finding, energetic reasoning, not-first, not-last, sweep, time-tabling

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Work	Concepts	Classification	Constraints	ProgLanguages	CPSystems	Areas	Industries	Benchmarks	Algorithm
OuelletQ18 [290]	completion-time, make-span, order, precedence, resource, scheduling, task	RCPSP, psplib	cumulative, disjunctive	Java	CHIP, Choco Solver, OZ			benchmark, https://	edge-finding, energetic reasoning, not-first, not-last, time-tabling
OuelletQ22 [291]	activity, completion-time, lazy clause generation, order, preempt, resource, scheduling, task		cumulative, disjunctive	Java	CHIP, Choco Solver, MiniZinc	nurse		benchmark, github, https:// , random instance	edge-finding, energetic reasoning, not-first, not-last, sweep, time-tabling
OujanaAYB22 [292]	batch process, buffer-capacity, completion-time, distributed, due-date, flow-shop, job, job-shop, machine, make to order, make-span, open-shop, order, precedence, preempt, resource, scheduling, sequence dependent setup, setup-time, tardiness, task	FJS, PMSP, HFF, parallel machine	disjunctive, noOverlap, span constraint		CPO, OPL	COVID, robot	food industry, steel industry	benchmark, https:// , industrial instance, real-life, real-world	
ParkUJR19 [297]	cmax, completion-time, distributed, due-date, flow-shop, flow-time, job, job-shop, lateness, machine, make-span, no preempt, open-shop, order, preempt, resource, scheduling, tardiness, task	parallel machine, single machine	cycle, endBeforeStart, noOverlap					https:// , real-world	
PerezGSL23 [299]	activity, completion-time, inventory, machine, make-span, order, re-scheduling, resource, scheduling, task, transportation	OSP	cumulative, table constraint		OPL	container terminal, nurse, steel mill		generated instance, real-world	
PesantRR15 [301]	activity, lazy clause generation, order, scheduling, transportation		cumulative, table constraint		Gecode, Gurobi, Ilog Solver			http://	
PopovicCGNC22 [307]	activity, completion-time, machine, make-span, order, resource, scheduling, task, transportation	TMS	alwaysIn, cumulative, noOverlap	C++, Prolog	CHIP, Cplex, OZ, SICStus	pipeline	electricity industry	https://	
PovedaAA23 [309]	activity, job, job-shop, lazy clause generation, make-span, order, precedence, preempt, release-date, resource, scheduling, task	OSP, RCPSP	cumulative, disjunctive	Python	CPO, Chuffed, Cplex, MiniZinc	aircraft, automotive		benchmark, github, https:// , industrial instance, real-life, real-world	
Pralet17 [310]	activity, due-date, job, job-shop, machine, make-span, order, precedence, resource, scheduling, sequence dependent setup, setup-time	JSSP, OSP, RCPSP, psplib	cumulative, cycle, disjunctive		CHIP, Cplex	satellite		benchmark, http://	
PraletLJ15 [311]	activity, due-date, job, job-shop, make-span, order, precedence, resource, scheduling, tardiness, task	JSSP, OSP	alternative constraint, cycle, noOverlap		CPO, Cplex	earth observation, satellite			
Puget95 [313]	activity, job, job-shop, manpower, order, resource, scheduling, task, transportation	OSP	disjunctive		OPL			benchmark	

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Work	Concepts	Classification	Constraints	ProgLanguages	CPSystems	Areas	Industries	Benchmarks	Algorithm
QuSN06 [316]	distributed, precedence, resource, scheduling, task		circuit	Prolog	SICStus				
QuirogaZH05 [317]	activity, completion-time, due-date, earliness, flow-shop, flow-time, inventory, machine, make-span, order, precedence, release-date, resource, scheduling, tardiness, task				ECLiPSe, Ilog Scheduler, Ilog Solver, OPL, OZ	robot			
RendlPHPR12 [318]	job, machine, order, re-scheduling, scheduling, transportation			Java	OZ	medical, nurse, patient		benchmark, http:// , real-world	
RodosekW98 [320]	activity, job, machine, make-span, order, resource, scheduling, task, transportation		circuit, cycle, disjunctive	Prolog	CHIP, Cplex, ECLiPSe, OPL	electroplating, hoist		benchmark	
RossiTHP07 [321]	distributed, inventory, order, resource, scheduling, stock level		cumulative, cycle		Choco Solver, OPL				
Sadykov04 [323]	completion-time, due-date, job, lateness, machine, precedence, preempt, release-date, scheduling, task	parallel machine, single machine	disjunctive						edge-finding
SchuttCSW12 [328]	activity, lazy clause generation, make-span, order, precedence, preempt, resource, scheduling	OSP, RCPSP, RCPSPDC	cumulative		CHIP			benchmark, http://	
SchuttFS13 [330]	activity, completion-time, job, job-shop, lazy clause generation, machine, make-span, order, precedence, resource, scheduling, task	FJS, RCPSP, OSP, RCP-SPDC	alternative constraint, cumulative, disjunctive, span constraint		MiniZinc			benchmark, http://	energetic reasoning, real-time tabling
SchuttFSW09 [331]	activity, job, lazy clause generation, machine, make-span, open-shop, order, precedence, preempt, resource, scheduling, task	RCPSP, psplib	cumulative, disjunctive		CHIP, ECLiPSe, OZ, SICStus			benchmark, http:// , real-world	edge-finder
SchuttS16 [333]	activity, inventory, lazy clause generation, machine, make-span, manpower, order, precedence, preempt, producer/consumer, resource, scheduling	OSP, RCPSP	cumulative		Chuffed, Ilog Scheduler, MiniZinc, OPL			benchmark, http://	
SchuttW10 [334]	activity, due-date, lazy clause generation, make-span, order, preempt, release-date, resource, scheduling, task	CuSP, RCPSP, psplib	cumulative, disjunctive	Java	CHIP	rectangle-packing		benchmark	edge-finding, not-first, not-last
SerraNM12 [335]	activity, inventory, machine, order, precedence, preempt, release-date, resource, scheduling	OSP	alwaysIn, cumulative, cycle		Cplex, OPL			benchmark, http:// , real-world	
SialaAH15 [340]	cmax, earliness, job, job-shop, lazy clause generation, machine, make-span, open-shop, order, precedence, resource, scheduling, setup-time, tardiness, task	JSSP, RCPSP	cumulative, disjunctive		Mistral			benchmark, github, http://	edge-finding
SimoninAHL12 [341]	activity, order, precedence, preempt, resource, scheduling, task	OSP	cumulative, cycle, disjunctive, span constraint		CHIP	satellite			sweep
Simonis95 [343]	machine, order, precedence, producer/consumer, resource, scheduling, task, transportation		circuit, cumulative, cycle, diffn	Prolog	CHIP	aircraft	food industry		

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Work	Concepts	Classification	Constraints	ProgLanguages	CPSystems	Areas	Industries	Benchmarks	Algorithm
SimonisC95 [345]	batch process, continuous-process, due-date, flow-shop, inventory, job, job-shop, machine, manpower, order, producer/consumer, resource, scheduling, stock level, task, transportation		cumulative, diffn	Prolog	CHIP, OZ	aircraft, pipeline	food industry	real-life	
SquillaciPR23 [346]	activity, distributed, multi-agent, order, resource, scheduling, task	EOSP, Earth Observation Scheduling Problem, OSP	noOverlap	Python	Cplex	earth observation, earth orbit, satellite		benchmark, github, https://	
SunLYL10 [349]	distributed, order, scheduling, task		cycle		Cplex, OPL	automotive		http:// , https://	
SzerediS16 [351]	activity, lazy clause generation, machine, make-span, order, precedence, preempt, resource, scheduling, task	RCPSP, psplib	cumulative		Chuffed, Cplex, Gecode, MiniZinc			benchmark, http://	
TangB20 [352]	batch process, due-date, flow-shop, job, machine, make-span, order, precedence, resource, scheduling, tardiness	2BPHFSP, OSP, single machine	alwaysIn, bin-packing, cycle, endBeforeStart, span constraint	Java	CPO, Cplex	semiconductor	manufacturing industry	https:// , real-world	
TardivoDFMP23 [354]	activity, lazy clause generation, make-span, order, precedence, preempt, resource, scheduling, task	CuSP, RCPSP, psplib	cumulative, disjunctive	C++	CHIP, Gecode, MiniZinc			benchmark, bit-bucket, github, https:// , real-world	edge-finding, energetic reasoning, not-first, not-last, sweep, time-tabling
TasselGS23 [355]	completion-time, flow-shop, flow-time, job, job-shop, machine, make-span, order, precedence, preempt, re-scheduling, resource, scheduling, tardiness, task	JSSP	cumulative, disjunctive, noOverlap	Java	Choco Solver			benchmark, github, https:// , industrial instance, real-world, supplementary material	
Tesch16 [359]	completion-time, job, make-span, order, precedence, resource, scheduling	CuSP, RCPSP, psplib	cumulative, disjunctive	C++	OPL			http://	edge-finding, energetic reasoning, not-first, not-last, sweep, time-tabling
Tesch18 [360]	completion-time, due-date, job, lateness, machine, make-span, order, precedence, preempt, release-date, resource, scheduling, task	CuSP, RCPSP, psplib, single machine	cumulative					https://	edge-finding, energetic reasoning, not-last, sweep, time-tabling
ThiruvadyBME09 [361]	due-date, job, machine, make-span, open-shop, order, resource, scheduling, setup-time, tardiness	single machine	cumulative	C++	Gecode			http://	
Tom19 [363]	activity, job, job-shop, machine, make-span, re-scheduling, resource, scheduling, tardiness, task, transportation	single machine		Java	OPL, OZ			real-world	
Touraivane95 [366]	order, scheduling, task			Prolog		crew-scheduling		real-life	

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

Work	Concepts	Classification	Constraints	ProgLanguages	CPSystems	Areas	Industries	Benchmarks	Algorithm
ValleMGT03 [369]	job, job-shop, machine, make-span, order, precedence, resource, scheduling, task, transportation				Ilog Solver	robot		http://, real-life	edge-finder
VanczaM01 [374]	machine, order, precedence, resource, scheduling, task		cycle, disjunctive		OZ	robot		http://, real-life, real-world	
VerfaillieL01 [375]	job, job-shop, open-shop, order, scheduling, task	Open Shop Scheduling Problem	cycle		Cplex, OPL	earth observation, satellite		http://	
Vilim02 [376]	activity, batch process, precedence, resource, scheduling, sequence dependent setup, setup-time		cumulative, disjunctive						edge-finding
Vilim03 [377]	job, job-shop, open-shop, order, scheduling		cumulative, disjunctive						edge-finding, not-last
Vilim04 [378]	activity, batch process, completion-time, job, job-shop, machine, order, precedence, resource, scheduling, sequence dependent setup, setup-time, task		cumulative, disjunctive					benchmark, http://	edge-finding, not-last, sweep
Vilim05 [379]	activity, completion-time, job, job-shop, machine, make-span, open-shop, order, precedence, preempt, resource, scheduling, task		cumulative, disjunctive	C++				benchmark, http://	not-last
Vilim09 [380]	activity, completion-time, job, job-shop, order, precedence, preempt, resource, scheduling		cumulative, cycle		CPO			http://	edge-finding, energetic reasoning, not-first, not-last
Vilim11 [382]	activity, completion-time, machine, manpower, order, precedence, preempt, resource, scheduling, task	RCPSP, psplib	cumulative, cycle, disjunctive					benchmark, http://	edge-finding, energetic reasoning, not-last, sweep, time-tabling
VilimBC04 [383]	activity, completion-time, distributed, job, job-shop, machine, make-span, open-shop, order, precedence, resource, scheduling		cumulative, disjunctive					benchmark, http://, real-life	edge-finding, not-first, not-last
VilimLS15 [385]	activity, cmax, completion-time, earliness, job, job-shop, machine, make-span, order, precedence, resource, scheduling, task	RCPSP, psplib	cumulative, disjunctive, noOverlap		CPO, Cplex, OZ	rectangle-packing		benchmark, http://	time-tabling
WangB20 [390]	distributed, job, machine, order, resource, scheduling, task	FJS, Fixed Job Scheduling	alldifferent		Gurobi, OZ	aircraft		github, http://, https://	
WangB23 [391]	job, lazy clause generation, order, resource, scheduling, task, transportation	FJS, Fixed Job Scheduling, OSP	alldifferent		Gurobi	aircraft, crew-scheduling		http://, random instance, real-world	
WatsonB08 [393]	cmax, completion-time, job, job-shop, machine, make-span, order, resource, scheduling		disjunctive	C++	Ilog Scheduler			benchmark, real-world	
WessenCS20 [394]	completion-time, job, job-shop, make-span, multi-agent, order, precedence, scheduling, task		circuit		Gecode, OZ	robot		http://, https://, real-world	

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Work	Concepts	Classification	Constraints	ProgLanguages	CPSystems	Areas	Industries	Benchmarks	Algorithm
WinterMMW22 [396]	completion-time, distributed, due-date, job, machine, order, precedence, release-date, resource, scheduling, setup-time, tardiness, task	PMSP, parallel machine	alternative constraint, noOverlap		CPO, Cplex, Gurobi	farming	agricultural industry, manufacturing industry	benchmark, https://, industrial partner , industry partner, real-life, supplementary material, zenodo	
Wolf03 [397]	activity, completion-time, job, job-shop, machine, make-span, order, preempt, resource, scheduling, task		cumulative, disjunctive	Java		pipeline		benchmark	edge-finding, not-first, not-last, sweep
WolfS05 [398]	activity, completion-time, distributed, order, preempt, resource, scheduling, task	OSP	cumulative		CHIP			real-world	energetic reasoning, not-last, sweep
WolinskiKG04 [399]	distributed, machine, order, precedence, resource, scheduling	SCC	cycle	Java	CHIP	pipeline			
WuBB05 [401]	job, make-span, release-date, resource, scheduling				Ilog Scheduler			benchmark	
YangSS19 [402]	activity, completion-time, lazy clause generation, machine, order, preempt, resource, scheduling, task		cumulative, disjunctive	Prolog	CHIP, Choco Solver, Gecode, OPL, OR-Tools, SICStus	rectangle-packing		generated instance, https://	edge-finding, energetic reasoning, not-last
YoungFS17 [403]	activity, lazy clause generation, machine, make-span, order, precedence, preempt, resource, scheduling, task	OSP, RCPSP, psplib	cumulative, disjunctive		Chuffed, MiniZinc			benchmark, github, http://, https:// , instance generator	time-tabling
YuraszekMC23 [405]	cmax, distributed, due-date, flow-time, job, job-shop, machine, make-span, open-shop, order, precedence, preempt, release-date, scheduling	JSSP, OSSP	noOverlap					benchmark, github, http://, https://	
ZhangJZL22 [410]	completion-time, due-date, flow-shop, job, machine, make-span, order, precedence, resource, scheduling, setup-time, tardiness, task, transportation	parallel machine, single machine	alternative constraint, cumulative, endBeforeStart, noOverlap		OZ	semiconductor		benchmark	
ZhangLS12 [413]	cmax, order, scheduling								time-tabling
Zhou96 [414]	completion-time, due-date, job, job-shop, machine, order, precedence, release-date, scheduling, task		disjunctive	Prolog	Z3				edge-finding
ZhouGL15 [416]	cmax, completion-time, distributed, flow-shop, job, job-shop, machine, make-span, order, re-scheduling, resource, scheduling, setup-time, tardiness, task, transportation	FJS, HFF, parallel machine	cumulative		CHIP, Gecode, OR-Tools, OZ	railway		http://, real-world	
ZhuS02 [417]	activity, distributed, resource, scheduling								
ZibranR11 [418]	activity, order, scheduling			Java	Cplex, OPL				
ZibranR11a [419]	activity, distributed, order, resource, scheduling				Cplex, OPL			http://	time-tabling

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Work	Concepts	Classification	Constraints	ProgLanguages	CPSystems	Areas	Industries	Benchmarks	Algorithm
cp-Hooker05 [179]	due-date, job, machine, make-span, order, precedence, release-date, resource, scheduling, tardiness, task		circuit, cumulative, disjunctive		Cplex, Ilog Scheduler, OPL				
cpaior-GayHS15 [130]	machine, manpower, order, preempt, resource, scheduling, task	RCPSP, psplib	cumulative, disjunctive	Java	CHIP			benchmark, bitbucket, https://, real-world	edge-finding, energetic reasoning, not-first, not-last, sweep, time-tabling
cpaior-SchuttFS13 [329]	activity, completion-time, lazy clause generation, machine, make-span, order, precedence, preempt, resource, scheduling, task	OSP, RCPSP, psplib	circuit, cumulative, disjunctive		CHIP, OZ			benchmark, http://	edge-finding, energetic reasoning, not-last
cpaior-Vilim09 [381]	activity, completion-time, order, preempt, resource, scheduling, task		cumulative, cycle		Ilog Scheduler				edge-finding, energetic reasoning, not-last

3 Journal Articles

Table 4: Articles from bibtex

Key	Authors	Title	LC	Cite	Year	Journal	Pages
PrataAN23	PrataAN23	Bruno A. Prata, Levi R. Abreu, Marcelo S. Nagano	Yes	[312]	2024	Results in Control and Optimization	1
abs-2402-00459	abs-2402-00459	S. Nguyen, Dhananjay R. Thiruvady, Y. Sun, M. Zhang	Yes	[279]	2024	CoRR	null
AbreuNP23	AbreuNP23	Levi Ribeiro de Abreu, Marcelo Seido Nagano, Bruno A. Prata	No	[90]	2023	Int. J. Prod. Res.	20
AkramNHSA23	AkramNHSA23	Bilal Omar Akram, Nor Kamariah Noordin, F. Hashim, Mohd Fadlee A. Rasid, Mustafa Ismael Salman, Abdulrahman M. Abdulghani	Yes	[7]	2023	IEEE Access	16
Caballero23	Caballero23	Jordi Coll Caballero	Yes	[71]	2023	Constraints An Int. J.	1
GurPAE23	GurPAE23	S. Gür, M. Pinarbasi, Haci Mehmet Alakas, T. Eren	Yes	[157]	2023	Central Eur. J. Oper. Res.	25
IsikYA23	IsikYA23	Eyüp Ensar Isik, Seyda Topaloglu Yildiz, Özge Satir Akpunar	Yes	[186]	2023	Soft Comput.	28
LacknerMMWW23	LacknerMMWW23	M. Lackner, C. Mrkvicka, N. Musliu, D. Walkiewicz, F. Winter	Yes	[224]	2023	Constraints An Int. J.	42
MontemanniD23	MontemanniD23	R. Montemanni, M. Dell’Amico	Yes	[268]	2023	Algorithms	1
MontemanniD23a	MontemanniD23a	R. Montemanni, M. Dell’Amico	Yes	[267]	2023	EURO J. Comput. Optim.	1
ShaikhK23	ShaikhK23	Aftab Ahmed Shaikh, Abdullah Ayub Khan	No	[336]	2023	Int. J. Electron. Secur. Digit. Forensics	12
YuraszeckMCCR23	YuraszeckMCCR23	F. Yuraszeck, E. Montero, D. Canut-de-Bon, N. Cuneo, M. Rojel	Yes	[406]	2023	IEEE Access	11
abs-2305-19888	abs-2305-19888	V. Heinz, A. Novák, M. Vlk, Z. Hanzálek	Yes	[170]	2023	CoRR	null
abs-2306-05747	abs-2306-05747	P. Tassel, M. Gebser, K. Schekotihin	Yes	[356]	2023	CoRR	null
abs-2312-13682	abs-2312-13682	G. Perez, G. Glorian, W. Suijlen, A. Lallouet	Yes	[300]	2023	CoRR	null
AbreuN22	AbreuN22	Levi Ribeiro de Abreu, Marcelo Seido Nagano	Yes	[89]	2022	Comput. Ind. Eng.	1
BourreauGGLT22	BourreauGGLT22	E. Bourreau, T. Garaix, M. Gondran, P. Lacomme, N. Tchernev	No	[68]	2022	Int. J. Prod. Res.	19
CampeauG22	CampeauG22	L. Campeau, M. Gamache	Yes	[72]	2022	Constraints An Int. J.	18
FetgoD22	FetgoD22	Séverine Betmbe Fetgo, Clémentin Tayou Djamégni	Yes	[116]	2022	Oper. Res. Forum	null
HeinzNVH22	HeinzNVH22	V. Heinz, A. Novák, M. Vlk, Z. Hanzálek	Yes	[169]	2022	Comput. Ind. Eng.	1
MullerMKP22	MullerMKP22	D. Müller, Marcus Gerhard Müller, D. Kress, E. Pesch	Yes	[272]	2022	Eur. J. Oper. Res.	18

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Key	Authors	Title	LC	Cite	Year	Journal	Pages
PohlAK22 PohlAK22	M. Pohl, C. Artigues, R. Kolisch	Solving the time-discrete winter runway scheduling problem: A column generation and constraint programming approach	Yes	[305]	2022	Eur. J. Oper. Res.	16
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	[337]	2022	Int. J. Prod. Res.	18
SubulanC22 SubulanC22	K. Subulan, G. Çakir	Constraint programming-based transformation approach for a mixed fuzzy-stochastic resource investment project scheduling problem	Yes	[347]	2022	Soft Comput.	38
YunusogluY22 YunusogluY22	P. Yunusoglu, Seyda Topaloglu Yildiz	Constraint programming approach for multi-resource-constrained unrelated parallel machine scheduling problem with sequence-dependent setup times	No	[404]	2022	Int. J. Prod. Res.	18
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	[348]	2022	CoRR	null
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
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	[115]	2021	Comput. Oper. Res.	1
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	[184]	2021	J. Sched.	22
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	[205]	2021	Constraints An Int. J.	51
PandeyS21a PandeyS21a	V. Pandey, P. Saini	Constraint programming versus heuristic approach to MapReduce scheduling problem in Hadoop YARN for energy minimization	Yes	[294]	2021	J. Supercomput.	29
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	[314]	2021	IEEE Trans Autom. Sci. Eng.	12
VlkHT21 VlkHT21	M. Vlk, Z. Hanzálek, S. Tang	Constraint programming approaches to joint routing and scheduling in time-sensitive networks	Yes	[387]	2021	Comput. Ind. Eng.	1
ZhangYW21 ZhangYW21	L. Zhang, C. Yu, T. N. Wong	A graph-based constraint programming approach for the integrated process planning and scheduling problem	Yes	[411]	2021	Comput. Oper. Res.	1
AlizdehS20 AlizdehS20	S. Alizdeh, S. Saeidi	Fuzzy project scheduling with critical path including risk and resource constraints using linear programming	No	[9]	2020	Int. J. Adv. Intell. Paradigms	14
AstrandJZ20 AstrandJZ20	M. Åstrand, M. Johansson, A. Zanarini	Underground mine scheduling of mobile machines using Constraint Programming and Large Neighborhood Search	Yes	[22]	2020	Comput. Oper. Res.	1
BadicaBI20 BadicaBI20	A. Badica, C. Badica, M. Ivanovic	Block structured scheduling using constraint logic programming	No	[23]	2020	AI Commun.	17
BenediktMH20 BenediktMH20	O. Benedikt, I. Módos, Z. Hanzálek	Power of pre-processing: production scheduling with variable energy pricing and power-saving states	Yes	[48]	2020	Constraints An Int. J.	19
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	[249]	2020	Comput. Oper. Res.	1
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	[262]	2020	Comput. Ind. Eng.	1
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	No	[264]	2020	Int. J. Comput. Integr. Manuf.	14
Polo-MejiaALB20 Polo-MejiaALB20	O. Polo-Mejía, C. Artigues, P. Lopez, V. Basini	Mixed-integer/linear and constraint programming approaches for activity scheduling in a nuclear research facility	No	[306]	2020	Int. J. Prod. Res.	18

Table 4: Articles from bibtex

Key	Authors	Title	LC	Cite	Year	Journal	Pages
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	[315]	2020	Eur. J. Oper. Res.	18
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	[322]	2020	Oper. Res. Forum	null
WallaceY20 WallaceY20	M. Wallace, N. Yorke-Smith	A new constraint programming model and solving for the cyclic hoist scheduling problem	Yes	[389]	2020	Constraints An Int. J.	19
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	[110]	2019	Comput. Chem. Eng.	10
NishikawaSTT19 NishikawaSTT19	H. Nishikawa, K. Shimada, I. Taniguchi, H. Tomiyama	A Constraint Programming Approach to Scheduling of Malleable Tasks	No	[282]	2019	Int. J. Netw. Comput.	16
Novas19 Novas19	Juan M. Novas	Production scheduling and lot streaming at flexible job-shops environments using constraint programming	Yes	[284]	2019	Comput. Ind. Eng.	13
WikarekS19 WikarekS19	J. Wikarek, P. Sitek	A Constraint-Based Declarative Programming Framework for Scheduling and Resource Allocation Problems	Yes	[395]	2019	Vietnam. J. Comput. Sci.	22
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	[41]	2019	CoRR	null
abs-1902-01193 abs-1902-01193	O. M. Alade, A. O. Amusat	Solving Nurse Scheduling Problem Using Constraint Programming Technique	Yes	[8]	2019	CoRR	null
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	[160]	2019	CoRR	null
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	[134]	2019	CoRR	null
BaptisteB18 BaptisteB18	P. Baptiste, N. Bonifas	Redundant cumulative constraints to compute preemptive bounds	Yes	[26]	2018	Discret. Appl. Math.	10
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	[113]	2018	Constraints An Int. J.	22
GedikKEK18 GedikKEK18	R. Gedik, D. Kalathia, G. Egilmez, E. Kirac	A constraint programming approach for solving unrelated parallel machine scheduling problem	Yes	[132]	2018	Comput. Ind. Eng.	11
GokgurHO18 GokgurHO18	B. Gökgür, B. Hnich, S. Özpeynirci	Parallel machine scheduling with tool loading: a constraint programming approach	No	[145]	2018	Int. J. Prod. Res.	17
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	[222]	2018	Constraints An Int. J.	41
PourDERB18 PourDERB18	Shahrazad M. Pour, John H. Drake, Lena Secher Ejlersen, Kourosh Marjani Rasmussen, Edmund K. Burke	A hybrid Constraint Programming/Mixed Integer Programming framework for the preventive signaling maintenance crew scheduling problem	Yes	[308]	2018	Eur. J. Oper. Res.	12
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	[338]	2018	IEEE Trans. Syst. Man Cybern. Syst.	16
TangLWSK18 TangLWSK18	Y. Tang, R. Liu, F. Wang, Q. Sun, Amr A. Kandil	Scheduling Optimization of Linear Schedule with Constraint Programming	No	[353]	2018	Comput. Aided Civ. Infrastructure Eng.	28
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	[412]	2018	IEEE Trans. Engineering Management	18
KreterSS17 KreterSS17	S. Kreter, A. Schutt, Peter J. Stuckey	Using constraint programming for solving RCPSP/max-cal	Yes	[217]	2017	Constraints An Int. J.	31
NattafAL17 NattafAL17	M. Nattaf, C. Artigues, P. Lopez	Cumulative scheduling with variable task profiles and concave piecewise linear processing rate functions	Yes	[277]	2017	Constraints An Int. J.	18
Bonfietti16 Bonfietti16	A. Bonfietti	A constraint programming scheduling solver for the MPOpt programming environment	No	[60]	2016	Intelligenza Artificiale	13

Table 4: Articles from bibtex

Key	Authors	Title	LC	Cite	Year	Journal	Pages	
DoulabiRP16 biRP16	Doula-	Seyed Hossein Hashemi Doulabi, L. Rousseau, G. Pesant	A Constraint-Programming-Based Branch-and-Price-and-Cut Approach for Operating Room Planning and Scheduling	No	[104]	2016	INFORMS J. Comput.	17
NovaraNH16 varaNH16	No-	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	[283]	2016	Comput. Chem. Eng.	17
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	[407]	2016	J. Intell. Manuf.	17
EvenSH15a EvenSH15a		C. Even, A. Schutt, Pascal Van Hentenryck	A Constraint Programming Approach for Non-Preemptive Evacuation Scheduling	Yes	[112]	2015	CoRR	null
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	[144]	2015	Eur. J. Oper. Res.	12
Kameugne15 Kameugne15		R. Kameugne	Propagation techniques of resource constraint for cumulative scheduling	Yes	[191]	2015	Constraints An Int. J.	2
LetortCB15 LetortCB15		A. Letort, M. Carlsson, N. Beldiceanu	Synchronized sweep algorithms for scalable scheduling constraints	Yes	[230]	2015	Constraints An Int. J.	52
NattafAL15 NattafAL15		M. Nattaf, C. Artigues, P. Lopez	A hybrid exact method for a scheduling problem with a continuous resource and energy constraints	Yes	[276]	2015	Constraints An Int. J.	21
Siala15 Siala15		M. Siala	Search, propagation, and learning in sequencing and scheduling problems	Yes	[339]	2015	Constraints An Int. J.	2
SimoninAHL15 SimoninAHL15	Simoni-	G. Simonin, C. Artigues, E. Hebrard, P. Lopez	Scheduling scientific experiments for comet exploration	Yes	[342]	2015	Constraints An Int. J.	23
WangMD15 WangMD15		T. Wang, N. Meskens, D. Duvivier	Scheduling operating theatres: Mixed integer programming vs. constraint programming	Yes	[392]	2015	Eur. J. Oper. Res.	13
GrimesIOS14 GrimesIOS14	Grime-	D. Grimes, G. Ifrim, B. O'Sullivan, H. Simonis	Analyzing the impact of electricity price forecasting on energy cost-aware scheduling	Yes	[152]	2014	Sustain. Comput. Informatics Syst.	16
KameugneFSN14 KameugneFSN14		R. Kameugne, Laure Pauline Fotso, Joseph D. Scott, Y. Ngo-Kateu	A quadratic edge-finding filtering algorithm for cumulative resource constraints	Yes	[195]	2014	Constraints An Int. J.	27
NovasH14 NovasH14		Juan M. Novas, Gabriela P. Henning	Integrated scheduling of resource-constrained flexible manufacturing systems using constraint programming	Yes	[287]	2014	Expert Syst. Appl.	14
BegB13 BegB13		Mirza Omer Beg, Peter van Beek	A constraint programming approach for integrated spatial and temporal scheduling for clustered architectures	No	[39]	2013	ACM Trans. Embed. Comput. Syst.	23
HeinzSB13 HeinzSB13		S. Heinz, J. Schulz, J. Christopher Beck	Using dual presolving reductions to reformulate cumulative constraints	Yes	[168]	2013	Constraints An Int. J.	36
OzturkTHO13 OzturkTHO13	Ozturk-	C. Öztürk, S. Tunali, B. Hnich, M. Arslan Ornek	Balancing and scheduling of flexible mixed model assembly lines	Yes	[293]	2013	Constraints An Int. J.	36
HeinzSSW12 HeinzSSW12		S. Heinz, T. Schlechte, R. Stephan, M. Winkler	Solving steel mill slab design problems	Yes	[166]	2012	Constraints An Int. J.	12
LimtanyakulS12 LimtanyakulS12	Lim-	K. Limtanyakul, U. Schwiegelshohn	Improvements of constraint programming and hybrid methods for scheduling of tests on vehicle prototypes	Yes	[237]	2012	Constraints An Int. J.	32
LombardiM12 LombardiM12	Lom-	M. Lombardi, M. Milano	Optimal methods for resource allocation and scheduling: a cross-disciplinary survey	Yes	[245]	2012	Constraints An Int. J.	35
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	[286]	2012	Comput. Chem. Eng.	17
BartakS11 BartakS11		R. Barták, Miguel A. Salido	Constraint satisfaction for planning and scheduling problems	Yes	[34]	2011	Constraints An Int. J.	5
BeckFW11 BeckFW11		J. Christopher Beck, T. K. Feng, J. Watson	Combining Constraint Programming and Local Search for Job-Shop Scheduling	No	[38]	2011	INFORMS J. Comput.	14
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	[43]	2011	Ann. Oper. Res.	24
HachemiGR11 HachemiGR11	Ha-	Nizar El Hachemi, M. Gendreau, L. Rousseau	A hybrid constraint programming approach to the log-truck scheduling problem	Yes	[158]	2011	Ann. Oper. Res.	16
KelbelH11 KelbelH11		J. Kelbel, Z. Hanzálek	Solving production scheduling with earliness/tardiness penalties by constraint programming	Yes	[198]	2011	J. Intell. Manuf.	10

Table 4: Articles from bibtex

Key	Authors	Title	LC	Cite	Year	Journal	Pages
KovacsB11 KovacsB11	A. Kovács, J. Christopher Beck	A global constraint for total weighted completion time for unary resources	Yes	[210]	2011	Constraints An Int. J.	24
KovacsK11 KovacsK11	A. Kovács, T. Kis	Constraint programming approach to a bilevel scheduling problem	Yes	[212]	2011	Constraints An Int. J.	24
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	[326]	2011	Constraints An Int. J.	23
SchuttFSW11 SchuttFSW11	A. Schutt, T. Feydy, Peter J. Stuckey, Mark G. Wallace	Explaining the cumulative propagator	Yes	[332]	2011	Constraints An Int. J.	33
TopalogluO11 TopalogluO11	S. Topaloglu, I. Ozkarahan	A constraint programming-based solution approach for medical resident scheduling problems	Yes	[364]	2011	Comput. Oper. Res.	10
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	[367]	2011	Comput. Ind. Eng.	7
LopesCSM10 LopesCSM10	Tony Minoru Tamura Lopes, André A. Ciré, Cid Carvalho de Souza, Arnaldo Vieira Moura	A hybrid model for a multiproduct pipeline planning and scheduling problem	Yes	[246]	2010	Constraints An Int. J.	39
NovasH10 NovasH10	Juan M. Novas, Gabriela P. Henning	Reactive scheduling framework based on domain knowledge and constraint programming	Yes	[285]	2010	Comput. Chem. Eng.	20
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	[409]	2010	Eng. Appl. Artif. Intell.	20
BocewiczBB09 BocewiczBB09	G. Bocewicz, I. Bach, Zbigniew Antoni Banaszak	Logic-algebraic method based and constraints programming driven approach to AGVs scheduling	No	[56]	2009	Int. J. Intell. Inf. Database Syst.	19
GarridoAO09 GarridoAO09	A. Garrido, M. Arangú, E. Onaindia	A constraint programming formulation for planning: from plan scheduling to plan generation	Yes	[126]	2009	J. Sched.	30
abs-0907-0939 abs-0907-0939	T. Petit, E. Poder	The Soft Cumulative Constraint	Yes	[302]	2009	CoRR	null
GarridoOS08 GarridoOS08	A. Garrido, E. Onaindia, Óscar Sapena	Planning and scheduling in an e-learning environment. A constraint-programming-based approach	Yes	[127]	2008	Eng. Appl. Artif. Intell.	11
KovacsB08 KovacsB08	A. Kovács, J. Christopher Beck	A global constraint for total weighted completion time for cumulative resources	Yes	[209]	2008	Eng. Appl. Artif. Intell.	7
LiessM08 LiessM08	O. Liess, P. Michelon	A constraint programming approach for the resource-constrained project scheduling problem	Yes	[232]	2008	Ann. Oper. Res.	12
MalikMB08 MalikMB08	Abid M. Malik, J. McInnes, Peter van Beek	Optimal Basic Block Instruction Scheduling for Multiple-Issue Processors Using Constraint Programming	No	[256]	2008	Int. J. Artif. Intell. Tools	18
Simonis07 Simonis07	H. Simonis	Models for Global Constraint Applications	Yes	[344]	2007	Constraints An Int. J.	30
Hooker06 Hooker06	John N. Hooker	An Integrated Method for Planning and Scheduling to Minimize Tardiness	Yes	[180]	2006	Constraints An Int. J.	19
KhayatLR06 KhayatLR06	Ghada El Khayat, A. Langevin, D. Riopel	Integrated production and material handling scheduling using mathematical programming and constraint programming	Yes	[200]	2006	Eur. J. Oper. Res.	15
SadykovW06 SadykovW06	R. Sadykov, Laurence A. Wolsey	Integer Programming and Constraint Programming in Solving a Multimachine Assignment Scheduling Problem with Deadlines and Release Dates	No	[324]	2006	INFORMS J. Comput.	9
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	No	[350]	2006	Int. J. Parallel Emergent Distributed Syst.	19
Hooker05 Hooker05	John N. Hooker	A Hybrid Method for the Planning and Scheduling	Yes	[178]	2005	Constraints An Int. J.	17
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	[384]	2005	Constraints An Int. J.	23
ZeballosH05 ZeballosH05	L. Zeballos, Gabriela P. Henning	A Constraint Programming Approach to FMS Scheduling. Consideration of Storage and Transportation Resources	Yes	[408]	2005	Inteligencia Artif.	10
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	[304]	2004	Eur. J. Oper. Res.	16
KuchcinskiW03 KuchcinskiW03	K. Kuchcinski, C. Wolinski	Global approach to assignment and scheduling of complex behaviors based on HCDG and constraint programming	Yes	[218]	2003	J. Syst. Archit.	15

Table 4: Articles from bibtex

Key	Authors	Title	LC	Cite	Year	Journal	Pages
Tsang03 Tsang03	Edward P. K. Tsang	Constraint Based Scheduling: Applying Constraint Programming to Scheduling Problems	Yes	[368]	2003	J. Sched.	2
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	No	[248]	2002	J. Oper. Res. Soc.	8
Timpe02 Timpe02	C. Timpe	Solving planning and scheduling problems with combined integer and constraint programming	Yes	[362]	2002	OR Spectr.	18
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	[258]	2001	Ann. Oper. Res.	17
Mason01 Mason01	Andrew J. Mason	Elastic Constraint Branching, the Wedelin/Carmen Lagrangian Heuristic and Integer Programming for Personnel Scheduling	Yes	[259]	2001	Ann. Oper. Res.	38
ArtiguesR00 ArtiguesR00	C. Artigues, F. Roubellat	A polynomial activity insertion algorithm in a multi-resource schedule with cumulative constraints and multiple modes	Yes	[17]	2000	Eur. J. Oper. Res.	20
BaptisteP00 BaptisteP00	P. Baptiste, Claude Le Pape	Constraint Propagation and Decomposition Techniques for Highly Disjunctive and Highly Cumulative Project Scheduling Problems	Yes	[29]	2000	Constraints An Int. J.	21
HeipckeCCS00 HeipckeCCS00	S. Heipcke, Y. Colombani, Cristina C. B. Cavalcante, Cid C. de Souza	Scheduling under Labour Resource Constraints	Yes	[171]	2000	Constraints An Int. J.	8
KorbaaYG00 KorbaaYG00	O. Korbaa, P. Yim, J. Gentina	Solving Transient Scheduling Problems with Constraint Programming	Yes	[207]	2000	Eur. J. Control	10
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	[247]	2000	Eur. J. Control	4
SakkoutW00 SakkoutW00	Hani El Sakkout, M. Wallace	Probe Backtrack Search for Minimal Perturbation in Dynamic Scheduling	Yes	[325]	2000	Constraints An Int. J.	30
SchildW00 SchildW00	K. Schild, J. Würtz	Scheduling of Time-Triggered Real-Time Systems	Yes	[327]	2000	Constraints An Int. J.	23
BensanaLV99 BensanaLV99	E. Bensana, M. Lemaître, G. Verfaillie	Earth Observation Satellite Management	Yes	[51]	1999	Constraints An Int. J.	7
BelhadjiI98 BelhadjiI98	S. Belhadji, A. Isli	Temporal Constraint Satisfaction Techniques in Job Shop Scheduling Problem Solving	Yes	[46]	1998	Constraints An Int. J.	9
PapaB98 PapaB98	Claude Le Pape, P. Baptiste	Resource Constraints for Preemptive Job-shop Scheduling	Yes	[296]	1998	Constraints An Int. J.	25
Darby-DowmanLMZ97 Darby-DowmanLMZ97	K. Darby-Dowman, J. Little, G. Mitra, M. Zafalon	Constraint Logic Programming and Integer Programming Approaches and Their Collaboration in Solving an Assignment Scheduling Problem	Yes	[86]	1997	Constraints An Int. J.	20
FalaschiGMP97 FalaschiGMP97	M. Falaschi, M. Gabbrielli, K. Marriott, C. Palamidessi	Constraint Logic Programming with Dynamic Scheduling: A Semantics Based on Closure Operators	Yes	[114]	1997	Inf. Comput.	27
Zhou97 Zhou97	J. Zhou	A Permutation-Based Approach for Solving the Job-Shop Problem	Yes	[415]	1997	Constraints An Int. J.	29
Wallace96 Wallace96	M. Wallace	Practical Applications of Constraint Programming	Yes	[388]	1996	Constraints An Int. J.	30
Tay92 Tay92	David B. H. Tay	COPS: A Constraint Programming Approach to Resource-Limited Project Scheduling	No	[357]	1992	Comput. J.	null
DincbasSH90 DincbasSH90	M. Dincbas, H. Simonis, Pascal Van Hentenryck	Solving Large Combinatorial Problems in Logic Programming	Yes	[101]	1990	J. Log. Program.	19

Table 5: Manually Defined Article Properties

Key	Title	CP System	Data Avail	Sol Avail	Code Avail	Based On	Classification	Constraints
PrataAN23 PrataAN23	Applications of constraint programming in production scheduling problems: A descriptive bibliometric analysis	-	-		-	-	survey	-
abs-2402-00459 abs-2402-00459	Genetic-based Constraint Programming for Resource Constrained Job Scheduling	OR-Tools	y		n	-	RCJS	cumulatives
AbreuNP23 AbreuNP23	A new two-stage constraint programming approach for open shop scheduling problem with machine blocking	?	?		?	?	?	?
AkramNHRSA23 AkramNHRSA23	Joint Scheduling and Routing Optimization for Deterministic Hybrid Traffic in Time-Sensitive Networks Using Constraint Programming	OR-Tools	n		n	-	TSN	-
Caballero23 Caballero23	Scheduling through logic-based tools	SAT	-		-	PhD Thesis	RCPSP	-
GurPAE23 GurPAE23	Operating room scheduling with surgical team: a new approach with constraint programming and goal programming	Cplex	n		n	-	-	-
IsikYA23 IsikYA23	Constraint programming models for the hybrid flow shop scheduling problem and its extensions	OPL CP Opt	y		y	-	HFSP	alternative endBeforeStart noOverlap
LacknerMMWW23 LacknerMMWW23	Exact methods for the Oven Scheduling Problem	MiniZinc OPL	DZN JSON		y	[223]	OSP	cumulative alternative noOverlap
MontemanniD23 MontemanniD23	Solving the Parallel Drone Scheduling Traveling Salesman Problem via Constraint Programming	OR-Tools	ref	y	n	-	PDSTSP	forbidExtent circuit
MontemanniD23a MontemanniD23a	Constraint programming models for the parallel drone scheduling vehicle routing problem	OR-Tools	ref		n	-	PDSTSP	circuit multipleCircuit
ShaikhK23 ShaikhK23	Management of electronic ledger: a constraint programming approach for solving curricula scheduling problems	?	?		?	?	?	?
YuraszeckMCCR23 YuraszeckMCCR23	A Constraint Programming Formulation of the Multi-Mode Resource-Constrained Project Scheduling Problem for the Flexible Job Shop Scheduling Problem	CP Opt	ref		n	-	FJSSP	alternative endBeforeStart cumulative
abs-2305-19888 abs-2305-19888	Constraint Programming and Constructive Heuristics for Parallel Machine Scheduling with Sequence-Dependent Setups and Common Servers	CP Opt Gurobi	y	y	n	-	$P seq, ser C_{max}$	alternative noOverlap cumulative
abs-2306-05747 abs-2306-05747	An End-to-End Reinforcement Learning Approach for Job-Shop Scheduling Problems Based on Constraint Programming	custom Choco	ref		n	-	JSSP	noOverlap
abs-2312-13682 abs-2312-13682	A Constraint Programming Model for Scheduling the Unloading of Trains in Ports: Extended	custom	n		n	-	SUTP	table disjunctive
AbreuN22 AbreuN22	A new hybridization of adaptive large neighborhood search with constraint programming for open shop scheduling with sequence-dependent setup times	Cplex CP Opt	y		n	-	OSSPST	noOverlap
BourreauGGLT22 BourreauGGLT22	A constraint-programming based decomposition method for the Generalised Workforce Scheduling and Routing Problem (GWSRP)							
CampeauG22 CampeauG22	Short- and medium-term optimization of underground mine planning using constraint programming	CP Opt	ref		n			pulse alwaysIn endBeforeStart noOverlap
FetgoD22 FetgoD22	Horizontally Elastic Edge-Finder Algorithm for Cumulative Resource Constraint Revisited							
HeinzNVH22 HeinzNVH22	Constraint Programming and constructive heuristics for parallel machine scheduling with sequence-dependent setups and common servers							
MullerMKP22 MullerMKP22	An algorithm selection approach for the flexible job shop scheduling problem: Choosing constraint programming solvers through machine learning							

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Key	Title	CP System	Data Avail	Sol Avail	Code Avail	Based On	Classification	Constraints
PohlAK22 PohlAK22	Solving the time-discrete winter runway scheduling problem: A column generation and constraint programming approach							
ShiYXQ22 ShiYXQ22	Solving the integrated process planning and scheduling problem using an enhanced constraint programming-based approach							
SubulanC22 SubulanC22	Constraint programming-based transformation approach for a mixed fuzzy-stochastic resource investment project scheduling problem							
YunusogluY22 YunusogluY22	Constraint programming approach for multi-resource-constrained unrelated parallel machine scheduling problem with sequence-dependent setup times							
abs-2211-14492 abs-2211-14492	Enhancing Constraint Programming via Supervised Learning for Job Shop Scheduling							
AbohashimaEG21 AbohashimaEG21	A Mathematical Programming Model and a Firefly-Based Heuristic for Real-Time Traffic Signal Scheduling With Physical Constraints							
FanXG21 FanXG21	Genetic programming-based hyper-heuristic approach for solving dynamic job shop scheduling problem with extended technical precedence constraints							
HubnerGSV21 HubnerGSV21	Solving the nuclear dismantling project scheduling problem by combining mixed-integer and constraint programming techniques and metaheuristics							
KoehlerBFFHPSSS21 KoehlerBFFHPSSS21	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	DZN		y	-	CTW	alldifferent inverse
PandeyS21a PandeyS21a	Constraint programming versus heuristic approach to MapReduce scheduling problem in Hadoop YARN for energy minimization							
QinWSLS21 QinWSLS21	A Genetic Programming-Based Scheduling Approach for Hybrid Flow Shop With a Batch Processor and Waiting Time Constraint							
VlkHT21 VlkHT21	Constraint programming approaches to joint routing and scheduling in time-sensitive networks							
ZhangYW21 ZhangYW21	A graph-based constraint programming approach for the integrated process planning and scheduling problem							
AlizdehS20 AlizdehS20	Fuzzy project scheduling with critical path including risk and resource constraints using linear programming							
AstrandJJ20 AstrandJJ20	Underground mine scheduling of mobile machines using Constraint Programming and Large Neighborhood Search							
BadicaBI20 BadicaBI20	Block structured scheduling using constraint logic programming							
BenediktMH20 BenediktMH20	Power of pre-processing: production scheduling with variable energy pricing and power-saving states	CP Opt Gurobi	JSON		y			
LunardiBLRV20 LunardiBLRV20	Mixed Integer linear programming and constraint programming models for the online printing shop scheduling problem							
MengZRZL20 MengZRZL20	Mixed-integer linear programming and constraint programming formulations for solving distributed flexible job shop scheduling problem							

Table 5: Manually Defined Article Properties

Key	Title	CP System	Data Avail	Sol Avail	Code Avail	Based On	Classification	Constraints
MokhtarzadehTNF20 MokhtarzadehTNF20	Scheduling of human-robot collaboration in assembly of printed circuit boards: a constraint programming approach							
Polo-MejiaALB20 Polo-MejiaALB20	Mixed-integer/linear and constraint programming approaches for activity scheduling in a nuclear research facility							
QinDCS20 QinDCS20	Combining mixed integer programming and constraint programming to solve the integrated scheduling problem of container handling operations of a single vessel							
SacramentoSP20 SacramentoSP20	Constraint Programming and Local Search Heuristic: a Matheuristic Approach for Routing and Scheduling Feeder Vessels in Multi-terminal Ports							
WallaceY20 WallaceY20	A new constraint programming model and solving for the cyclic hoist scheduling problem	MiniZinc	DZN		y		CHSP	
EscobetPQPRA19 EscobetPQPRA19	Optimal batch scheduling of a multiproduct dairy process using a combined optimization/constraint programming approach							
NishikawaSTT19 NishikawaSTT19	A Constraint Programming Approach to Scheduling of Malleable Tasks							
Novas19 Novas19	Production scheduling and lot streaming at flexible job-shops environments using constraint programming							
WikarekS19 WikarekS19	A Constraint-Based Declarative Programming Framework for Scheduling and Resource Allocation Problems							
abs-1901-07914 abs-1901-07914	A Constraint Programming Approach to Simultaneous Task Allocation and Motion Scheduling for Industrial Dual-Arm Manipulation Tasks							
abs-1902-01193 abs-1902-01193	Solving Nurse Scheduling Problem Using Constraint Programming Technique							
abs-1902-09244 abs-1902-09244	On constraint programming for a new flexible project scheduling problem with resource constraints							
abs-1911-04766 abs-1911-04766	Investigating Constraint Programming and Hybrid Methods for Real World Industrial Test Laboratory Scheduling							
BaptisteB18 BaptisteB18	Redundant cumulative constraints to compute preemptive bounds							
FahimiOQ18 FahimiOQ18	Linear-time filtering algorithms for the disjunctive constraint and a quadratic filtering algorithm for the cumulative not-first not-last	Choco	(y)		n		RCPSP	disjunctive cumulative
GedikKEK18 GedikKEK18	A constraint programming approach for solving unrelated parallel machine scheduling problem							
GokgurHO18 GokgurHO18	Parallel machine scheduling with tool loading: a constraint programming approach							
LaborieRSV18 LaborieRSV18	IBM ILOG CP optimizer for scheduling - 20+ years of scheduling with constraints at IBM/ILOG	OP Opt	-		-	-	-	-
PourDERB18 PourDERB18	A hybrid Constraint Programming/Mixed Integer Programming framework for the preventive signaling maintenance crew scheduling problem							
ShinBBHO18 ShinBBHO18	Discrete-Event Simulation and Integer Linear Programming for Constraint-Aware Resource Scheduling							
TangLWSK18 TangLWSK18	Scheduling Optimization of Linear Schedule with Constraint Programming							
ZhangW18 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							

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Key	Title	CP System	Data Avail	Sol Avail	Code Avail	Based On	Classification	Constraints
KreterSS17 KreterSS17	Using constraint programming for solving RCPSP/max-cal	MiniZinc Chuffed Cplex Cplex	dead			[216]	RCPSP	cumulative cumulativeCalendar
NattafAL17 NattafAL17	Cumulative scheduling with variable task profiles and concave piecewise linear processing rate functions		n		n	-	CECSP	-
Bonfietti16 Bonfietti16	A constraint programming scheduling solver for the MPOpt programming environment							
DoulabiRP16 Doula- biRP16	A Constraint-Programming-Based Branch-and-Price-and-Cut Approach for Operating Room Planning and Scheduling							
NovaraNH16 No- varaNH16	A novel constraint programming model for large-scale scheduling problems in multiproduct multistage batch plants: Limited resources and campaign-based operation							
ZarandiKS16 ZarandiKS16	A constraint programming model for the scheduling of JIT cross-docking systems with preemption							
EvenSH15a EvenSH15a	A Constraint Programming Approach for Non-Preemptive Evacuation Scheduling							
GoelSHFS15 GoelSHFS15	Constraint programming for LNG ship scheduling and inventory management							
Kameugne15 Kameugne15	Propagation techniques of resource constraint for cumulative scheduling	-	-		-	PhDThesis	RCPSP	
LetortCB15 LetortCB15	Synchronized sweep algorithms for scalable scheduling constraints	Choco SICStus	dead		-	[229]	-	cumulative dimCumulative dimCumulativePrecedences
NattafAL15 NattafAL15	A hybrid exact method for a scheduling problem with a continuous resource and energy constraints	Cplex	n		n		CSCSP	
Siala15 Siala15	Search, propagation, and learning in sequencing and scheduling problems	-	-		-	PhD Thesis		
SimoninAHL15 SimoninAHL15	Scheduling scientific experiments for comet exploration	MOST Ilog Scheduler	n		n	[341]		cumulative dataTransfer
WangMD15 WangMD15	Scheduling operating theatres: Mixed integer programming vs. constraint programming							
GrimesIOS14 GrimesIOS14	Analyzing the impact of electricity price forecasting on energy cost-aware scheduling							
KameugneFSN14 KameugneFSN14	A quadratic edge-finding filtering algorithm for cumulative resource constraints	Gecode	y			[194]	CuSP	cumulative
Novash14 Novash14	Integrated scheduling of resource-constrained flexible manufacturing systems using constraint programming							
BegB13 BegB13	A constraint programming approach for integrated spatial and temporal scheduling for clustered architectures							
HeinzSB13 HeinzSB13	Using dual presolving reductions to reformulate cumulative constraints	Cplex SCIP	ref		-	-	RCPSP RCPSP/max	cumulative
OzturkTHO13 OzturkTHO13	Balancing and scheduling of flexible mixed model assembly lines	Ilog Solver Ilog Scheduler Cplex	y		-	-	SBSFMMAL	alddifferent disjunctive
HeinzSSW12 HeinzSSW12	Solving steel mill slab design problems		Cplex		dead	-	SMSDP	-
LimtanyakulS12 LimtanyakulS12	Improvements of constraint programming and hybrid methods for scheduling of tests on vehicle prototypes	Cplex Ilog Scheduler	dead		-	-		
LombardiM12 LombardiM12	Optimal methods for resource allocation and scheduling: a cross-disciplinary survey	-	-		-	-	survey	-
Novash12 Novash12	A comprehensive constraint programming approach for the rolling horizon-based scheduling of automated wet-etch stations							
BartakS11 BartakS11	Constraint satisfaction for planning and scheduling problems	-	-		-		survey	

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Key	Title	CP System	Data Avail	Sol Avail	Code Avail	Based On	Classification	Constraints
BeckFW11 BeckFW11	Combining Constraint Programming and Local Search for Job-Shop Scheduling							
BeldiceanuCDP11 BeldiceanuCDP11	New filtering for the <i>cumulative</i> constraint in the context of non-overlapping rectangles							
HachemiGR11 HachemiGR11	A hybrid constraint programming approach to the log-truck scheduling problem							
KelbelH11 KelbelH11	Solving production scheduling with earliness/tardiness penalties by constraint programming							
KovacsB11 KovacsB11	A global constraint for total weighted completion time for unary resources	Ilog Scheduler	n		n	-		Completion
KovacsK11 KovacsK11	Constraint programming approach to a bilevel scheduling problem	Ilog Solver	n		n	-	Bilevel Opt	
SchausHMCMD11 SchausHMCMD11	Solving Steel Mill Slab Problems with constraint-based techniques: CP, LNS, and CBLs	Comet	dead				SMSDP	
SchuttFSW11 SchuttFSW11	Explaining the cumulative propagator	MiniZinc	PSPLib		-	-	RCPSP	cumulative
TopalogluO11 TopalogluO11	A constraint programming-based solution approach for medical resident scheduling problems							
TrojetHL11 TrojetHL11	Project scheduling under resource constraints: Application of the cumulative global constraint in a decision support framework							
LopesCSM10 LopesCSM10	A hybrid model for a multiproduct pipeline planning and scheduling problem	Ilog Solver	-		-	[271, 270]		
NovasH10 NovasH10	Reactive scheduling framework based on domain knowledge and constraint programming							
ZeballosQH10 ZeballosQH10	A constraint programming model for the scheduling of flexible manufacturing systems with machine and tool limitations							
BocewiczBB09 BocewiczBB09	Logic-algebraic method based and constraints programming driven approach to AGVs scheduling							
GarridoAO09 GarridoAO09	A constraint programming formulation for planning: from plan scheduling to plan generation							
abs-0907-0939 abs-0907-0939	The Soft Cumulative Constraint							
GarridoOS08 GarridoOS08	Planning and scheduling in an e-learning environment. A constraint-programming-based approach							
KovacsB08 KovacsB08	A global constraint for total weighted completion time for cumulative resources							
LiessM08 LiessM08	A constraint programming approach for the resource-constrained project scheduling problem							
MalikMB08 MalikMB08	Optimal Basic Block Instruction Scheduling for Multiple-Issue Processors Using Constraint Programming							
Simonis07 Simonis07	Models for Global Constraint Applications	CHIP	n		n			cumulative diffn cycle
Hooker06 Hooker06	An Integrated Method for Planning and Scheduling to Minimize Tardiness	OPL Cplex Ilog Scheduler	n		n	[179]	CuSP	inverse cumulative
KhayatLR06 KhayatLR06	Integrated production and material handling scheduling using mathematical programming and constraint programming							
SadykovW06 SadykovW06	Integer Programming and Constraint Programming in Solving a Multimachine Assignment Scheduling Problem with Deadlines and Release Dates							

Table 5: Manually Defined Article Properties

Key	Title	CP System	Data Avail	Sol Avail	Code Avail	Based On	Classification	Constraints
SureshMOK06 SureshMOK06	Divisible load scheduling in distributed system with buffer constraints: genetic algorithm and linear programming approach							
Hooker05 Hooker05	A Hybrid Method for the Planning and Scheduling	OPL Cplex Ilog Scheduler	n		n	[177]	CuSP	cumulative
VilimBC05 VilimBC05	Extension of $O(n \log n)$ Filtering Algorithms for the Unary Resource Constraint to Optional Activities		n		n	[383]	JSSP	disjunctive
ZeballosH05 ZeballosH05	A Constraint Programming Approach to FMS Scheduling. Consideration of Storage and Transportation Resources							
PoderBS04 PoderBS04	Computing a lower approximation of the compulsory part of a task with varying duration and varying resource consumption							
KuchcinskiW03 KuchcinskiW03 Tsang03 Tsang03	Global approach to assignment and scheduling of complex behaviors based on HCDG and constraint programming Constraint Based Scheduling: Applying Constraint Programming to Scheduling Problems							
LorigeonBB02 LorigeonBB02	A dynamic programming algorithm for scheduling jobs in a two-machine open shop with an availability constraint							
Timpe02 Timpe02	Solving planning and scheduling problems with combined integer and constraint programming							
MartinPY01 MartinPY01	Cane Railway Scheduling via Constraint Logic Programming: Labelling Order and Constraints in a Real-Life Application							
Mason01 Mason01	Elastic Constraint Branching, the Wedelin/Carmen Lagrangian Heuristic and Integer Programming for Personnel Scheduling							
ArtiguesR00 ArtiguesR00	A polynomial activity insertion algorithm in a multi-resource schedule with cumulative constraints and multiple modes							
BaptisteP00 BaptisteP00	Constraint Propagation and Decomposition Techniques for Highly Disjunctive and Highly Cumulative Project Scheduling Problems	CLAIRE	n		n		RCCSP	cumulative
HeipckeCCS00 HeipckeCCS00	Scheduling under Labour Resource Constraints	COME SchedEns	dead		n	-		
KorbaaYG00 KorbaaYG00	Solving Transient Scheduling Problems with Constraint Programming							
LopezAKYG00 LopezAKYG00	Discussion on: 'Solving Transient Scheduling Problems with Constraint Programming' by O. Korbaa, P. Yim, and J.-C. Gentina							
SakkoutW00 SakkoutW00	Probe Backtrack Search for Minimal Perturbation in Dynamic Scheduling	Cplex ECLiPSe	n		n	-	KRFP	
SchildW00 SchildW00	Scheduling of Time-Triggered Real-Time Systems	OZ	n		n	-		disjunctive
BensanaLV99 BensanaLV99	Earth Observation Satellite Management	Ilog Solver	?		-	-		
BelhadjiI98 BelhadjiI98	Temporal Constraint Satisfaction Techniques in Job Shop Scheduling Problem Solving	-	n		n	-	TCSP JSSP	
PapaB98 PapaB98	Resource Constraints for Preemptive Job-shop Scheduling	Ilog Solver	dead		-	-	PJSSP	disjunctive flow
Darby-DowmanLMZ97 Darby-DowmanLMZ97	Constraint Logic Programming and Integer Programming Approaches and Their Collaboration in Solving an Assignment Scheduling Problem	Cplex ECLiPSe	n		n	-	MGAP	
FalaschiGMP97 FalaschiGMP97 Zhou97 Zhou97	Constraint Logic Programming with Dynamic Scheduling: A Semantics Based on Closure Operators A Permutation-Based Approach for Solving the Job-Shop Problem	-	n		n	[414]	JSSP	sort alldifferent permutation

Table 5: Manually Defined Article Properties

Key	Title	CP System	Data Avail	Sol Avail	Code Avail	Based On	Classification	Constraints
Wallace96 Wallace96	Practical Applications of Constraint Programming	-	-		-	-	Survey	-
Tay92 Tay92	COPS: A Constraint Programming Approach to Resource-Limited Project Scheduling							
DincbasSH90	Solving Large Combinatorial Problems in Logic Program-							
DincbasSH90	ming							

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

Work	Concepts	Classification	Constraints	ProgLanguages	CPSystems	Areas	Industries	Benchmarks	Algorithm
AbohashimaEG21 [2]	resource, scheduling, setup-time, order, machine, cmax, transportation	parallel machine	cycle	Python	Gurobi			https://, generated instance, github, real-world	
AbreuN22 [89]	transportation, batch process, flow-time, make-span, setup-time, open-shop, job, distributed, order, job-shop, cmax, flow-shop, machine, resource, completion-time, tardiness, scheduling, task, preempt, inventory	Open Shop Scheduling Problem, OSSP, single machine	noOverlap, cycle, cumulative	Python	Cplex, OZ	CHIP, medical		benchmark, real-world, http://, https://	
AkramNHRS23 [7]	preempt, scheduling, distributed, machine, task, order, resource, completion-time		cycle, bin-packing	Python	OR-Tools	agriculture, medical		https://, benchmark	
ArtiguesR00 [17]	no preempt, preempt, machine, activity, resource, transportation, re-scheduling, earliness, scheduling, precedence, make-span, completion-time, release-date, due-date, job-shop, job, cmax, setup-time, lateness, order	RCPSP	cumulative, cycle, disjunctive		OZ				
AstrandJZ20 [22]	job, setup-time, order, task, completion-time, machine, activity, re-scheduling, job-shop, precedence, make-span, flow-shop, open-shop, resource, due-date, scheduling	parallel machine, RCPSP	disjunctive, alldifferent, cycle	C++	OZ, Gecode	robot	mineral industry, potash industry, mining industry	real-life, https://, benchmark, http://, real-world	
BaptisteB18 [26]	job, order, task, preempt, machine, manpower, lazy clause generation, scheduling, precedence, make-span, resource	parallel machine, RCPSP, psplib	bin-packing, cumulative		CHIP			http://, benchmark	time-tabling, edge-finding, edge-finder
BaptisteP00 [29]	task, preempt, release-date, activity, re-scheduling, scheduling, job-shop, precedence, make-span, flow-shop, resource, due-date, job, cmax, order	RCPSP	disjunctive, cumulative	C++	Ilog Scheduler, Claire, CHIP			http://, benchmark	energetic reasoning, edge-finder, edge-finding
BartakS11 [34]	multi-agent, order, distributed, task, resource, scheduling		cumulative		OPL			real-life, real-world, random instance, http://, benchmark	
BeldiceanuCDP11 [43]	task, resource, scheduling, order, preempt, cmax		diffn, geost, disjunctive, cumulative, bin-packing, disjunctive	Prolog	CHIP, SICStus	perfect-square, rectangle-packing		http://, benchmark	energetic reasoning, edge-finding, sweep
BelhadjiI98 [46]	job-shop, precedence, resource, scheduling, job, order, task, preempt, release-date, due-date, machine	JSSP, Temporal Constraint Satisfaction Problem, TCSP						real-life	
BenediktMH20 [48]	preempt, re-scheduling, task, order, scheduling, job, job-shop, machine	single machine	endBeforeStart, noOverlap		Gurobi	robot		generated instance, benchmark, random instance, https://, github benchmark, http://	
BensanaLV99 [51]	order		cycle		Cplex, Solver	Ilog	satellite, earth observation		

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Work	Concepts	Classification	Constraints	ProgLanguages	CPSystems	Areas	Industries	Benchmarks	Algorithm
Caballero23 [71]	resource, scheduling	RCPSP						https:// , http://	
CampeauG22 [72]	task, completion-time, make-span, job, order, scheduling, resource, activity, precedence	RCPSP, RCP-SPDC	cumulative, endBeforeStart, cycle, alwaysIn, noOverlap	Python	OZ, Cplex		mining industry	real-life, real-world, https://	edge-finding
Darby-DowmanLMZ97 [86]	make-span, resource, task, machine, order, scheduling	MGAP, single machine	disjunctive, span constraint	Prolog	Cplex, ECLiPSe	pipeline, craft	air-	real-world, benchmark, http:// , real-life	
DincbasSH90 [101]	machine, resource, scheduling, precedence, distributed, job-shop, job, order, task		circuit, disjunctive	Prolog	OPL, CHIP			real-life	
EscobetPQPRA19 [110]	release-date, resource, distributed, scheduling, job-shop, activity, order, batch process, machine, due-date, task, job		alternative constraint, noOverlap, circuit, cycle		Cplex, OPL	dairy, price	energy-	manufacturing industry, food industry	https:// , http://
EvenSH15a [112]	order, transportation, distributed, task, completion-time, preempt, resource, machine, scheduling	SCC	cumulative, disjunctive	Java	Choco Solver, OPL			real-life, real-world, http://	sweep
FahimiOQ18 [113]	batch process, scheduling, resource, preempt, setup-time, machine, sequence dependent setup, lazy clause generation, distributed, due-date, task, job-shop, completion-time, make-span, precedence, open-shop, job, lateness, order	psplib, RCPSP	alldifferent, disjunctive, cumulative		Choco Solver			benchmark, https:// , random instance	not-first, edge-finding, sweep, not-last, time-tabling
FalaschiGMP97 [114]	order, scheduling			Prolog					
FanXG21 [115]	job-shop, order, distributed, preempt, flow-shop, flow-time, task, tardiness, make-span, setup-time, no preempt, completion-time, precedence, earliness, resource, scheduling, machine, job, due-date, batch process	single machine, parallel machine	cycle	Python, Java	OZ, Gurobi, ECLiPSe	Cplex, semiconductor	manufacturing industry	https:// , benchmark	max-flow
FetgoD22 [116]	cmax, resource, completion-time, scheduling, task, preempt, precedence, make-span, lazy clause generation, order	CuSP, RCPSP	cumulative	Python, Java	OZ, Choco Solver, CHIP			http:// , https:// , real-world, benchmark	sweep, not-last, edge-finding, time-tabling, edge-finder, not-first, energetic reasoning
GarridoAO09 [126]	order, task, resource, scheduling, precedence, make-span, re-scheduling		disjunctive	Java	Choco Solver, OPL, CPO			benchmark, http://	
GarridoOS08 [127]	order, task, machine, activity, resource, scheduling, make-span			C , Java	CPO, Solver	Choco		http:// , real-world	
GedikKEK18 [132]	job, tardiness, order, transportation, scheduling, resource, due-date, preempt, machine, sequence dependent setup, cmax, task, completion-time, make-span, setup-time	single machine, parallel machine, PMSP	cumulative, noOverlap		OZ, Cplex	medical, nurse	manufacturing industry	http:// , benchmark, https://	

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Work	Concepts	Classification	Constraints	ProgLanguages	CPSystems	Areas	Industries	Benchmarks	Algorithm
GoelSHFS15 [144]	scheduling, resource, machine, precedence, transportation, task, setup-time, order, activity, inventory		disjunctive, cumulative, noOverlap, alwaysIn		OPL, Cplex	pipeline		http://	
GrimesIOS14 [152]	due-date, scheduling, order, task, preempt, completion-time, machine, activity, re-scheduling, distributed, resource		disjunctive		CHIP, Cplex	real-time pricing, energy-price, HVAC		real-life, http://, real-world	
GurPAE23 [157]	distributed, order, inventory, machine, resource, re-scheduling, scheduling	OSP	cumulative		OPL, Cplex, OZ	patient, physician, COVID, nurse		https://, real-life	
HachemiGR11 [158]	activity, resource, transportation, scheduling, job-shop, precedence, job, make-span, order, task		cycle, alldifferent		OPL, Cplex, Ilog Scheduler	forestry, crew-scheduling	food industry		
HeinzNVH22 [169]	order, sequence dependent setup, flow-shop, scheduling, resource, distributed, machine, completion-time, activity, precedence, job, task, re-scheduling, preempt, make-span, setup-time	parallel machine	alternative constraint, cumulative, noOverlap		Gurobi	crew-scheduling, robot		benchmark, real-world, https://, gitlab, generated instance, http://	
HeinzSB13 [168]	completion-time, precedence, order, due-date, preempt, resource, release-date, machine, scheduling, job	single machine, RCPSP, psplib	cumulative, disjunctive		CHIP, Cplex, MiniZinc	satellite		benchmark, http://	time-tabling, edge-finding
HeinzSSW12 [166]	task, order, inventory		bin-packing		Cplex	steel mill	process industry, steel industry	http://, real-world	
HeipckeCCS00 [171]	precedence, release-date, preempt, due-date, scheduling, job-shop, machine, task, activity, order, resource, make-span, completion-time, job	RCPSP, single machine	disjunctive, cumulative					http://, instance generator, benchmark	
Hooker05 [178]	make-span, job, distributed, order, release-date, machine, resource, due-date, tardiness, scheduling, task, precedence		cumulative, disjunctive, circuit		OPL, Cplex, Ilog Scheduler			random instance	edge-finding
Hooker06 [180]	due-date, job, machine, make-span, order, precedence, release-date, resource, scheduling, tardiness, task		circuit, cumulative, disjunctive		Cplex, Ilog Scheduler, OPL			http://, random instance	
HubnerGSV21 [184]	activity, cmax, completion-time, due-date, inventory, job, machine, make-span, order, precedence, preempt, resource, scheduling, tardiness, task, transportation	RCPSP, RCP-SPDC	alternative constraint, cumulative, cycle, end-BeforeStart	C	Cplex, Gurobi, OPL	automotive		benchmark, http://, https://, real-life	
IsikYA23 [186]	batch process, cmax, completion-time, distributed, due-date, earliness, flow-shop, job, job-shop, machine, make-span, order, precedence, preempt, release-date, resource, scheduling, sequence dependent setup, setup-time, tardiness, task, transportation	parallel machine, single machine	circuit, cumulative, endBeforeStart, noOverlap		Cplex, OPL, OZ	medical, robot	steel industry	benchmark, generated instance, http://, https://, real-life, real-world	energetic reasoning

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Work	Concepts	Classification	Constraints	ProgLanguages	CPSystems	Areas	Industries	Benchmarks	Algorithm
Kameugne15 [191]	completion-time, preempt, resource, scheduling, task		cumulative					http://	edge-finding, not-first, not-last
KameugneFSN14 [195]	completion-time, job, job-shop, make-span, order, precedence, preempt, release-date, resource, scheduling, task	CuSP, RCPSP, psplib	cumulative, disjunctive		CHIP, Gecode			benchmark, http://, random instance	edge-finder, edge-finding, energetic reasoning, not-first, not-last, time-tabling
KelbelH11 [198]	completion-time, distributed, due-date, earliness, inventory, job, job-shop, machine, make-span, order, precedence, preempt, release-date, resource, scheduling, tardiness, task	JSSP	cumulative, disjunctive		Cplex, Ilog Solver, OPL			benchmark, generated instance, http://, random instance	edge-finder, edge-finding
KhayatLR06 [200]	activity, cmax, due-date, job, job-shop, machine, make-span, order, precedence, preempt, resource, scheduling, setup-time, task				Cplex, OPL			benchmark, http://, real-life	
KoehlerBFFHPSSS21 [205]	flow-shop, flow-time, job, job-shop, lateness, machine, make-span, order, precedence, resource, scheduling, tardiness, task	CTW, OSP, single machine	alldifferent, circuit, cumulative, cycle, disjunctive	C, Python	Chuffed, Cplex, Gurobi, MiniZinc, OPL, OR-Tools, Z3	automotive, cable tree, robot		benchmark, github, http://, https://, real-world	
KorbayYG00 [207]	activity, completion-time, job, machine, order, preempt, release-date, resource, scheduling, tardiness	single machine	bin-packing, cumulative, cycle, disjunctive		Ilog Scheduler, Ilog Solver	aircraft		benchmark	sweep
KovacsB11 [210]	activity, completion-time, distributed, due-date, earliness, flow-shop, flow-time, job, job-shop, machine, make-span, order, precedence, preempt, release-date, resource, scheduling, tardiness	parallel machine, single machine	cumulative, cycle, disjunctive	C++	Ilog Scheduler, Ilog Solver			benchmark	edge-finding
KovacsK11 [212]	completion-time, due-date, earliness, flow-shop, job, job-shop, machine, order, release-date, resource, scheduling, sequence dependent setup, tardiness, task, transportation	single machine	cycle	C++	Cplex, Gecode, Ilog Solver			http://	
KreterSS17 [217]	activity, completion-time, lazy clause generation, machine, make-span, order, precedence, preempt, resource, scheduling, task	OSP, RCPSP, parallel machine	alwaysIn, cumulative, cycle, diffn		CHIP, CPO, Chuffed, Cplex, MiniZinc			benchmark, http://	edge-finding
KuchcinskiW03 [218]	distributed, order, precedence, resource, scheduling		circuit, cycle	Java	CHIP	pipeline		benchmark	

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Work	Concepts	Classification	Constraints	ProgLanguages	CPSystems	Areas	Industries	Benchmarks	Algorithm
LaborieRSV18 [222]	activity, batch process, distributed, due-date, earliness, flow-shop, inventory, job, job-shop, machine, make-span, manpower, order, precedence, re-scheduling, release-date, resource, scheduling, sequence dependent setup, setup-time, tardiness, task, transportation	OSP, RCPSP, parallel machine, psplib	alternative constraint, alwaysIn, cumulative, cycle, disjunctive, endBeforeStart, noOverlap, span constraint	C , C++, Java, Python	CHIP, CPO, Choco Solver, Cplex, Gecode, Ilog Scheduler, Ilog Solver, OPL	aircraft, container terminal, pipeline, railway, robot, satellite, semiconductor	chemical industry, petrochemical industry	benchmark, http:// , https:// , real-world	edge-finding
LacknerMMWW23 [224]	batch process, due-date, earliness, job, job-shop, lateness, machine, make-span, order, release-date, scheduling, setup-time, tardiness, task	OSP, parallel machine, single machine	alternative constraint, bin-packing, cumulative, disjunctive, endBeforeStart, noOverlap		CPO, Chuffed, Cplex, Gurobi, MiniZinc, OPL, OR-Tools	oven scheduling, semiconductor	electronics industry, manufacturing industry, steel industry	benchmark, http:// , https:// , industrial partner, instance generator, random instance, real-life, zenodo	time-tabling
LetortCB15 [230]	job, machine, make-span, order, precedence, resource, scheduling, task	psplib	bin-packing, cumulative, cycle	Java, Prolog	CHIP, Choco Solver, SICStus			benchmark, generated instance, http:// , random instance	edge-finding, energetic reasoning, sweep
LiessM08 [232]	activity, cmax, job, job-shop, machine, make-span, order, precedence, preempt, resource, scheduling, task	RCPSP, psplib	cumulative, disjunctive	C++	OZ			benchmark, http://	edge-finding
LimtanyakulS12 [237]	activity, completion-time, due-date, job, machine, order, precedence, release-date, resource, scheduling, tardiness		bin-packing, cumulative, disjunctive, table constraint		Cplex, Ilog Scheduler, OZ	automotive, robot	automotive industry	benchmark, generated instance, http:// , industrial partner, random instance, real-life	edge-finding, energetic reasoning, not-first, not-last
LombardiM12 [245]	activity, completion-time, distributed, due-date, earliness, flow-shop, inventory, job, job-shop, lazy clause generation, machine, make-span, manpower, order, precedence, preempt, re-scheduling, resource, scheduling, sequence dependent setup, setup-time, tardiness, task, transportation	RCPSP, parallel machine, psplib	circuit, cumulative, cycle, disjunctive		OR-Tools, OZ	aircraft	chemical industry	benchmark, real-world	edge-finding, energetic reasoning
LopesCSM10 [246]	activity, distributed, due-date, inventory, job, job-shop, make-span, order, precedence, re-scheduling, resource, scheduling, stock level, task, transportation	OSP	alldifferent, cycle, disjunctive, table constraint	C++	Ilog Scheduler, Ilog Solver, OPL, OZ	pipeline	oil industry	benchmark, http:// , real-world	max-flow
LopezAKYG00 [247]									
LunardiBLRV20 [249]	activity, completion-time, due-date, flow-shop, job, job-shop, machine, make-span, order, precedence, preempt, re-scheduling, resource, scheduling, setup-time, tardiness	FJS	endBeforeStart, noOverlap	Python	Cplex			benchmark, generated instance, github, https:// , random instance	

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Work	Concepts	Classification	Constraints	ProgLanguages	CPSystems	Areas	Industries	Benchmarks	Algorithm
MartinPY01 [258]	machine, order, re-scheduling, resource, scheduling, task, transportation		circuit	Prolog	ECLiPSe, Ilog Solver	aircraft, railway		real-life	
Mason01 [259]	activity, order, scheduling, task, transportation				Cplex, OPL, OZ	crew-scheduling, nurse, railway robot, semiconductor		http://	
MengZRZL20 [262]	batch process, cmax, completion-time, distributed, earliness, flow-shop, flow-time, job, job-shop, machine, make-span, no preempt, open-shop, order, precedence, preempt, resource, scheduling, sequence dependent setup, setup-time, tardiness, task, transportation	FJS, OSP, Open Shop Scheduling Problem, parallel machine	alternative constraint, end-BeforeStart, noOverlap		Cplex, Gecode, Gurobi, OPL, OR-Tools			benchmark, https://, supplementary material	
MontemanniD23 [268]	distributed, machine, order, resource, scheduling, task	OSP	circuit	Python	CHIP, Gurobi, OPL, OR-Tools	robot		benchmark, https://, supplementary material	
MontemanniD23a [267]	completion-time, order, scheduling, task, transportation		circuit	Python	OR-Tools			benchmark, http://, https://	
MullerMKP22 [272]	activity, batch process, cmax, completion-time, due-date, job, job-shop, machine, make-span, order, precedence, preempt, resource, scheduling, setup-time, task	FJS, OSP	circuit, disjunctive	Java, Python	Choco Solver, Chuffed, Cplex, Gecode, MiniZinc, OPL, OR-Tools, OZ	robot, semiconductor		benchmark, github, https://, random instance, real-world	
NattafAL15 [276]	activity, due-date, make-span, order, preempt, release-date, resource, scheduling, task	CECSP, CuSP, RCPSP	cumulative	C++	Cplex			generated instance, http://	energetic reasoning, sweep
NattafAL17 [277]	activity, job, make-span, order, release-date, resource, scheduling, task	CECSP	cumulative, disjunctive	C++	Cplex			http://, real-world	edge-finding, energetic reasoning
NovaraNH16 [283]	activity, batch process, completion-time, due-date, earliness, job, machine, make-span, manpower, order, precedence, re-scheduling, resource, scheduling, sequence dependent setup, setup-time, tardiness, task		alternative constraint, cumulative, disjunctive, endBeforeStart, noOverlap		Cplex, OPL		pharmaceutical industry	benchmark, http://	
Novas19 [284]	activity, cmax, completion-time, distributed, due-date, flow-shop, flow-time, inventory, job, job-shop, lateness, machine, make-span, order, precedence, release-date, resource, scheduling, sequence dependent setup, setup-time, tardiness, task, transportation	FJS, parallel machine	cumulative, cycle, end-BeforeStart, noOverlap		Cplex, OPL, OZ	medical, robot, semiconductor		benchmark, https://	

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Work	Concepts	Classification	Constraints	ProgLanguages	CPSystems	Areas	Industries	Benchmarks	Algorithm
NovasH10 [285]	activity, batch process, completion-time, due-date, earliness, job, lateness, machine, make-span, manpower, order, precedence, re-scheduling, resource, scheduling, setup-time, tardiness, task				Ilog Scheduler, OPL, OZ	pipeline		http://	
NovasH12 [286]	activity, completion-time, job, machine, make-span, order, precedence, resource, scheduling, task, transportation		cycle		Ilog Scheduler, Ilog Solver, OPL, OZ	container terminal, electroplating, hoist, robot, semiconductor			
NovasH14 [287]	activity, buffer-capacity, completion-time, job, job-shop, machine, make-span, order, precedence, resource, scheduling, task, transportation	parallel machine, single machine			Ilog Scheduler, Ilog Solver, OPL			benchmark, http://	
OzturkTHO13 [293]	activity, cmax, completion-time, flow-shop, job, machine, make-span, order, precedence, preempt, resource, scheduling, setup-time, task	SBSFMMAL	cumulative, cycle, disjunctive		CHIP, Cplex, Ilog Solver, OPL, OZ			http://, real-life, real-world	edge-finding
PandeyS21a [294]	activity, completion-time, distributed, flow-shop, job, machine, make-span, order, precedence, re-scheduling, resource, scheduling, task	PMSP, parallel machine, single machine	alternative constraint, cumulative, endBeforeStart		Cplex, OPL, OZ	semiconductor		benchmark, https://	
PapaB98 [296]	activity, cmax, completion-time, distributed, due-date, flow-shop, job, job-shop, machine, make-span, order, preempt, re-scheduling, resource, scheduling, setup-time, task	JSSP, PJSSP, OSP,	cumulative, disjunctive, table constraint	C++	CHIP, Claire, Ilog Solver	hoist		benchmark, http://	edge-finder, edge-finding, energetic reasoning
PoderBS04 [304]	activity, due-date, machine, order, precedence, preempt, producer/consumer, release-date, resource, scheduling, task	RCPSP	cumulative	Prolog	CHIP		chemical industry	http://	
PohlAK22 [305]	activity, completion-time, earliness, inventory, job, lateness, machine, order, precedence, re-scheduling, release-date, resource, scheduling, sequence dependent setup, setup-time, tardiness, transportation	SCC, single machine	cumulative, noOverlap	Python	Cplex, Gurobi, OZ	aircraft		benchmark, http://, https://, real-world	
PourDERB18 [308]	job, machine, order, scheduling, task, transportation				CHIP, Cplex, OR-Tools	crew-scheduling, railway		benchmark, generated instance, http://, real-life, real-world	

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Work	Concepts	Classification	Constraints	ProgLanguages	CPSystems	Areas	Industries	Benchmarks	Algorithm
PrataAN23 [312]	activity, batch process, completion-time, distributed, due-date, earliness, flow-shop, flow-time, inventory, job, job-shop, lateness, machine, make-span, open-shop, order, precedence, preempt, re-scheduling, release-date, resource, scheduling, sequence dependent setup, setup-time, tardiness, task	Open Shop Scheduling Problem, parallel machine, single machine	circuit, cumulative		CHIP, OZ	aircraft, dairy, energy-price, robot	manufacturing industry	benchmark, http:// , https:// , real-life, real-world	time-tabling
QinDCS20 [315]	activity, cmax, completion-time, job, machine, make-span, order, precedence, resource, scheduling, setup-time, tardiness, task, transportation	parallel machine	cycle, endBeforeStart, noOverlap		Cplex, OPL	container terminal, yard crane		benchmark, https:// , real-life	
QinWSLS21 [314]	batch process, cmax, completion-time, flow-shop, job, job-shop, lateness, machine, make-span, order, preempt, scheduling, tardiness	OSP, single machine		C++	CHIP, Cplex, OPL, OZ	agriculture, semiconductor		https://	
SacramentoSP20 [322]	activity, completion-time, distributed, flow-shop, job, job-shop, machine, make-span, open-shop, order, precedence, preempt, resource, scheduling, task, transportation	Open Shop Scheduling Problem, parallel machine	alternative constraint, cumulative, disjunctive, endBeforeStart, noOverlap	Java	CPO, Cplex, OZ	container terminal		benchmark, https:// , real-life, real-world, zenodo	
SakkoutW00 [325]	activity, distributed, job, job-shop, machine, order, precedence, preempt, re-scheduling, resource, scheduling, task, transportation	KRFP, single machine	bin-packing, disjunctive		CHIP, Cplex	aircraft		benchmark, http:// , real-world	edge-finder, edge-finding
SchausHMCMD11 [326]	order, task	SCC	bin-packing			steel mill	steel industry	benchmark, generated instance, http://	
SchildW00 [327]	completion-time, distributed, flow-shop, job, job-shop, machine, order, precedence, resource, scheduling, task	OSP, single machine	bin-packing, cycle, disjunctive		Ilog Solver, OZ	automotive	aerospace industry, automotive industry	http://	edge-finding, time-tabling
SchuttFSW11 [332]	activity, completion-time, lazy clause generation, machine, make-span, open-shop, order, precedence, preempt, resource, scheduling, task	RCPSP, TMS, psplib	circuit, cumulative, disjunctive, span constraint		CHIP, ECLiPSe, Ilog Scheduler, OZ, SICStus			benchmark, http:// , real-world	edge-finder, edge-finding, not-first, not-last
ShinBBHO18 [338]	activity, inventory, job, machine, order, preempt, resource, scheduling, task, transportation	OSP				medical, nurse, patient, physician		github, http:// , https:// , real-world	
Siala15 [339]	resource, scheduling		disjunctive					benchmark, http://	
SimoninAHL15 [342]	activity, inventory, make-span, order, precedence, preempt, resource, scheduling, task, transportation		cumulative, cycle, disjunctive, span constraint		CHIP	earth observation, pipeline, robot, satellite			sweep

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

Work	Concepts	Classification	Constraints	ProgLanguages	CPSystems	Areas	Industries	Benchmarks	Algorithm
Simonis07 [344]	activity, batch process, bill of material, due-date, job, job-shop, machine, make to order, order, producer/consumer, re-scheduling, release-date, resource, scheduling, sequence dependent setup, setup-time, task, transportation	OSP	alldifferent, bin-packing, cumulative, cycle, diffn, disjunctive	Prolog	CHIP, Ilog Scheduler, OPL, OZ	aircraft, medical, nurse, patient			bi-partite matching, sweep, time-tabling
SubulanC22 [347]	BOM, activity, completion-time, due-date, inventory, machine, make-span, order, precedence, preempt, resource, scheduling, tardiness, task, transportation	RCPSP	cumulative, endBeforeStart		Cplex, OPL, OZ	offshore		benchmark, https:// , real-life, real-world	
Timpe02 [362]	activity, due-date, inventory, job, machine, make-span, order, producer/consumer, resource, scheduling, setup-time, stock level, task		cumulative, cycle, diffn, disjunctive	C++	CHIP, Cplex		chemical industry, process industry	http://	
TopalogluO11 [364]	distributed, order, preempt, re-scheduling, scheduling, task, transportation	OSP			Cplex, Ilog Solver, OPL, OZ	medical, nurse, patient, physician		http:// , real-life	time-tabling
TrojetHL11 [367]	activity, completion-time, distributed, due-date, job, job-shop, machine, make-span, order, precedence, resource, scheduling, task	RCPSP	alldifferent, cumulative, cycle, diffn, disjunctive	Prolog	CHIP, OZ, SIC-Stus	robot		http:// , real-world	
Tsang03 [368]	resource, scheduling							real-life	time-tabling
VilimBC05 [384]	activity, batch process, completion-time, distributed, job, job-shop, machine, make-span, open-shop, order, precedence, resource, scheduling, sequence dependent setup, setup-time, task		cumulative, cycle, disjunctive					benchmark, http:// , real-life	edge-finding, not-first, not-last, sweep
VlkHT21 [387]	completion-time, distributed, due-date, order, precedence, resource, scheduling, tardiness	PMSP	alternative constraint, noOverlap		Cplex, Gurobi, OPL, Z3	automotive, robot		benchmark, github, http:// , https:// , industrial partner, random instance	
Wallace96 [388]	activity, distributed, job, job-shop, machine, multi-agent, order, resource, scheduling, task, transportation	OSP	circuit, cycle, disjunctive	Lisp, Prolog	CHIP, ECLiPSe, Ilog Solver, OPL, OZ	aircraft, automotive, railway, robot	automotive industry, process industry	http://	time-tabling
WallaceY20 [389]	flow-shop, job, job-shop, lazy clause generation, machine, order, resource, scheduling, task, transportation	CHSP	circuit, cumulative, cycle, disjunctive		Chuffed, Cplex, Gecode, Gurobi, MiniZinc, OPL	container terminal, electroplating, hoist, robot, yard crane		benchmark, http:// , https:// , random instance, real-life, real-world	edge-finding, time-tabling
WangMD15 [392]	activity, cmax, completion-time, job, job-shop, make-span, order, precedence, re-scheduling, resource, scheduling, task	OSP	cumulative, noOverlap		Cplex, OPL, OZ	medical, nurse, patient, physician		http:// , https:// , real-life, real-world	time-tabling

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

Work	Concepts	Classification	Constraints	ProgLanguages	CPSystems	Areas	Industries	Benchmarks	Algorithm
WikarekS19 [395]	cmax, distributed, flow-shop, inventory, job, job-shop, machine, make-span, manpower, multi-agent, order, precedence, preempt, resource, scheduling, setup-time, task	JSSP, RCPSP	cumulative, disjunctive		ECLiPSe, OZ, Z3	robot			
YuraszekMCCR23 [406]	activity, batch process, cmax, flow-shop, flow-time, job, job-shop, machine, make-span, open-shop, order, precedence, preempt, resource, scheduling, setup-time, task	FJS, JSSP, OSSP, Open Shop Scheduling Problem, RCPSP	cumulative, endBeforeStart		Cplex, OPL		pharmaceutical industry	benchmark, github, https:// , real-world	
ZarandiKS16 [407]	completion-time, distributed, due-date, earliness, flow-shop, job, job-shop, machine, make-span, order, preempt, resource, scheduling, tardiness, task, transportation	single machine			Ilog Solver	robot		real-world	time-tabling
ZeballosH05 [408]	activity, buffer-capacity, completion-time, due-date, job, machine, make-span, order, precedence, resource, scheduling, tardiness, task, transportation				Ilog Scheduler, Ilog Solver, OPL	robot		http://	
ZeballosQH10 [409]	activity, cmax, completion-time, due-date, earliness, job, job-shop, machine, make-span, order, precedence, preempt, resource, scheduling, tardiness, task, transportation				CHIP, Cplex, ECLiPSe, Ilog Scheduler, Ilog Solver, OPL, OZ	robot		benchmark, http:// , real-world	
ZhangW18 [412]	completion-time, distributed, earliness, flow-shop, flow-time, job, job-shop, lateness, machine, make-span, multi-agent, order, precedence, preempt, re-scheduling, resource, scheduling, setup-time, tardiness, transportation	FJS, OSP	cumulative, noOverlap		Cplex, OPL, Z3	robot		benchmark, http://	
ZhangYW21 [411]	activity, batch process, cmax, distributed, job, job-shop, machine, make-span, multi-agent, order, precedence, preempt, re-scheduling, release-date, resource, scheduling, setup-time, task	RCPSP	disjunctive, endBeforeStart		Cplex	robot		benchmark, https://	
Zhou97 [415]	completion-time, due-date, job, job-shop, machine, order, precedence, preempt, release-date, scheduling, task		cumulative, disjunctive	Prolog	CHIP, Ilog Scheduler, Z3			benchmark	edge-finder, edge-finding
abs-0907-0939 [302]	activity, due-date, make-span, order, preempt, release-date, resource, scheduling, task		cumulative	Java	CHIP, Solver	Choco		http:// , real-world	edge-finding, energetic reasoning, sweep
abs-1901-07914 [41]	distributed, machine, make-span, multi-agent, order, resource, scheduling, task			Python	MiniZinc, OR-Tools, OZ	robot		benchmark, github, http:// , https:// , real-world	

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

Work	Concepts	Classification	Constraints	ProgLanguages	CPSystems	Areas	Industries	Benchmarks	Algorithm
abs-1902-01193 [8]	BOM, activity, order, resource, scheduling, task	OSP		C++, Prolog, Python	CHIP, Ilog Solver, OPL Cplex, OPL, OZ	medical, nurse			time-tabling
abs-1902-09244 [160]	activity, completion-time, due-date, earliness, flow-shop, inventory, job, job-shop, machine, make-span, order, precedence, release-date, resource, scheduling, setup-time, tardiness, task, transportation	FJS, RCPSP	cumulative, cycle, endBeforeStart			aircraft	food-processing industry, steel industry	benchmark, https://, industry partner, real-world	
abs-1911-04766 [134]	activity, completion-time, due-date, job, make-span, order, precedence, re-scheduling, release-date, resource, scheduling, task	RCPSP	alternative constraint, cumulative, disjunctive, endBeforeStart, noOverlap	Java	CPO, Chuffed, Cplex, Gecode, MiniZinc, OZ	automotive		benchmark, generated instance, github, https://, industrial partner, instance generator, real-life, real-world benchmark, generated instance, https://, random instance	time-tabling
abs-2211-14492 [348]	activity, cmax, completion-time, distributed, due-date, flow-shop, job, job-shop, machine, make-span, order, precedence, resource, scheduling, setup-time, tardiness, task, transportation	single machine	bin-packing, cumulative, disjunctive	Python	Cplex, OR-Tools, OZ	semiconductor			
abs-2305-19888 [170]	activity, cmax, completion-time, distributed, flow-shop, job, machine, make-span, order, precedence, preempt, re-scheduling, resource, scheduling, sequence dependent setup, setup-time, task	parallel machine	alternative constraint, cumulative, noOverlap		Gurobi	robot		benchmark, generated instance, github, https://, real-world	
abs-2306-05747 [356]	completion-time, flow-shop, flow-time, job, job-shop, machine, make-span, order, precedence, preempt, re-scheduling, resource, scheduling, tardiness, task	JSSP	cumulative, disjunctive, noOverlap	Java	Choco Solver			benchmark, github, https://, industrial instance, real-world, supplementary material generated instance, real-world	
abs-2312-13682 [300]	activity, inventory, machine, make-span, order, re-scheduling, resource, scheduling, task, transportation	OSP	cumulative, table constraint		OPL	container terminal, nurse, steel mill		generated instance, real-world	
abs-2402-00459 [279]	completion-time, due-date, earliness, job, job-shop, machine, multi-agent, order, precedence, resource, scheduling, tardiness, task	single machine	bin-packing, cumulative, disjunctive		OPL, OR-Tools		mining industry	benchmark, generated instance, github, https://, instance generator, real-world	

4 Authors

Table 7: Co-Authors of Articles/Papers

Author	Entries
Andreas Schutt	YangSS19[402] KreterSS17[217] YoungFS17[403] GoldwaserS17[146] SchuttS16[333] SzerediS16[351] KreterSS15[216] EvenSH15[111] EvenSH15a[112] SchuttFS13[330] cpaior-SchuttFS13[329] GuSS13[156] SchuttCSW12[328] SchuttFSW11[332] SchuttW10[334] SchuttFSW09[331]
Nicolas Beldiceanu	Madi-WambaLOBM17[252] Madi-WambaB16[251] LetortCB15[230] LetortCB13[229] LetortBC12[228] ClercqPB11[81] BeldiceanuCDP11[43] BeldiceanuCP08[44] PoderB08[303] BeldiceanuP07[45] PoderBS04[304] BeldiceanuC02[42] AggounB92[5]
J. Christopher Beck	TangB20[352] BoothNB16[65] KoschB14[208] HeinzSB13[168] HeinzKB13[165] HeinzB12[164] KovacsB11[210] BeckFW11[38] WatsonB08[393] KovacsB08[209] CarchraeBF05[74] WuBB05[401] BeckDF97[37]
Emmanuel Hebrard	JuvinHHL23[188] AntuoriHHEN21[11] GodelLHS20[143] SimoninAHL15[342] SialaAH15[340] BessiereHMQW14[53] SimoninAHL12[341] BillautHL12[54] GrimesH11[150] GrimesH10[149] GrimesHM09[151] HebrardTW05[162]
Peter J. Stuckey	YangSS19[402] DemirovicS18[95] KreterSS17[217] SchuttS16[333] KreterSS15[216] BurtLPS15[70] SchuttFS13[330] cpaior-SchuttFS13[329] GuSS13[156] SchuttCSW12[328] SchuttFSW11[332] SchuttFSW09[331]
Michele Lombardi	BonfiettiZLM16[64] LombardiBM15[241] BartoliniBBLM14[35] BonfiettiLM14[63] LombardiM12[245] BonfiettiLBM12[62] BonfiettiLBM11[61] LombardiBMB11[242] LombardiM10[244] LombardiM09[243] HoeveGSL07[373]
Pierre Lopez	JuvinHHL23[188] JuvinHL23[189] Polo-MejiaALB20[306] NattafAL17[277] SimoninAHL15[342] NattafAL15[276] SimoninAHL12[341] BillautHL12[54] LahimerLH11[225] TrojetHL11[367] LopezAKYG00[247]
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Petr Vilím	LaborieRSV18[222] VilimLS15[385] Vilim11[382] Vilim09[380] cpaior-Vilim09[381] VilimBC05[384] Vilim05[379] VilimBC04[383] Vilim04[378] Vilim03[377] Vilim02[376]
Christian Artigues	PovedaAA23[309] PohlAK22[305] Polo-MejiaALB20[306] NattafAL17[277] SimoninAHL15[342] NattafAL15[276] SialaAH15[340] SimoninAHL12[341] ArtiguesBF04[16] ArtiguesR00[17]
John N. Hooker	Hooker17[181] HechingH16[163] CireCH13[80] CobanH10[82] Hooker06[180] Hooker05[178] cp-Hooker05[179] Hooker04[177] HookerY02[182]
Claude-Guy Quimper	BoudreaultSLQ22[67] OuelletQ22[291] Mercier-AubinGQ20[263] FahimiOQ18[113] KameugneFGOQ18[192] OuelletQ18[290] GingrasQ16[141] BessiereHMQW14[53] OuelletQ13[289]
Pierre Schaus	CappartS17[73] CauwelaertDMS16[76] DejemepeCS15[92] GayHLS15[128] GayHS15[129] cpaior-GayHS15[130] HoundjiSWD14[183] GaySS14[131] SchausHMCMD11[326]
Pascal Van Hentenryck	FontaineMH16[117] EvenSH15[111] EvenSH15a[112] SchausHMCMD11[326] MonetteDH09[266] DoomsH08[102] HentenryckM08[173] HentenryckM04[172] DincbasSH90[101]
Philippe Baptiste	BaptisteB18[26] Baptiste09[25] BaptisteLPN06[27] ArtiouchineB05[18] BaptisteP00[29] PapaB98[296] BaptisteP97[28] PapeB97[295]
Mats Carlsson	WessenCS20[394] MossigeGSMC17[269] LetortCB15[230] LetortCB13[229] LetortBC12[228] BeldiceanuCDP11[43] BeldiceanuCP08[44] BeldiceanuC02[42]
Nysret Musliu	LacknerMMWW23[224] WinterMMW22[396] LacknerMMWW21[223] GeibingerKKMMW21[133] GeibingerMM21[136] GeibingerMM19[135] abs-1911-04766[134] KletzanderM17[204]
Helmut Simonis	ArmstrongGOS22[14] ArmstrongGOS21[13] GrimesIOS14[152] IfrimOS12[185] Simonis07[344] SimonisC95[345] Simonis95[343] DincbasSH90[101]
Alessio Bonfietti	BonfiettiZLM16[64] Bonfietti16[60] LombardiBM15[241] BonfiettiLM14[63] BonfiettiLBM12[62] BonfiettiLBM11[61] LombardiBMB11[242]
Zdenek Hanzálek	Mehdizadeh-Somarin23[260] abs-2305-19888[170] HeinzNVH22[169] VlKHT21[387] BenediktMH20[48] BenediktSMVH18[49] KelbelH11[198]
Philippe Laborie	LunardiBLRV20[249] LaborieRSV18[222] Laborie18a[221] MelgarejoLS15[6] VilimLS15[385] Laborie09[220] BaptisteLPN06[27]
Gabriela P. Henning	NovaraNH16[283] NovasH14[287] NovasH12[286] NovasH10[285] ZaballosQH10[409] ZaballosH05[408] QuirogaZH05[317]
Stefan Heinz	HeinzSB13[168] HeinzKB13[165] HeinzSSW12[166] HeinzB12[164] HeinzS11[167] BertholdHLSM10[52]
András Kovács	KovacsB11[210] KovacsK11[212] KovacsB08[209] KovacsV06[214] KovacsEKV05[211] KovacsV04[213]
Emmanuel Poder	BeldiceanuCDP11[43] abs-0907-0939[302] BeldiceanuCP08[44] PoderB08[303] BeldiceanuP07[45] PoderBS04[304]
Mark Wallace	WallaceY20[389] He0GLW18[161] SchuttFSW09[331] SakkoutW00[325] RodosekW98[320] Wallace96[388]
Roman Barták	BartakS11[34] VilimBC05[384] VilimBC04[383] Bartak02[33] Bartak02a[32]
Yves Deville	HoundjiSWD14[183] DejemepeD14[93] SchausHMCMD11[326] MonetteDH09[266] MonetteDD07[265]
Thibaut Feydy	YoungFS17[403] SchuttFS13[330] cpaior-SchuttFS13[329] SchuttFSW11[332] SchuttFSW09[331]
Roger Kameugne	KameugneFND23[193] KameugneFGOQ18[192] Kameugne15[191] KameugneFSN14[195] KameugneFSN11[194]
Claude Le Pape	BaptisteLPN06[27] BaptisteP00[29] PapaB98[296] BaptisteP97[28] PapeB97[295]
Juan M. Novas	Novas19[284] NovaraNH16[283] NovasH14[287] NovasH12[286] NovasH10[285]
Louis-Martin Rousseau	DoulabiRP16[104] PesantRR15[301] DoulabiRP14[103] ChapadosJR11[78] HachemiGR11[158]
André A. Ciré	CireCH13[80] LopesCSM10[246] MouraSCL08[271] MouraSCL08a[270]
Luca Benini	BonfiettiLBM12[62] BonfiettiLBM11[61] LombardiBMB11[242] BeniniBGM06[50]
Cyrille Dejemepe	CauwelaertDMS16[76] Dejemepe16[91] DejemepeCS15[92] DejemepeD14[93]
Steven Gay	GayHLS15[128] GayHS15[129] cpaior-GayHS15[130] GaySS14[131]
Tobias Geibinger	GeibingerKKMMW21[133] GeibingerMM21[136] GeibingerMM19[135] abs-1911-04766[134]

Table 7: Co-Authors of Articles/Papers

Author	Entries
Diarmuid Grimes	GrimesIOS14[152] GrimesH11[150] GrimesH10[149] GrimesHM09[151]
Krzysztof Kuchcinski	WolinskiKG04[399] WolinskiKG04a[400] KuchcinskiW03[218] GruianK98[155]
Laurent Michel	TardivoDFMP23[354] SchausHMCMD11[326] HentenryckM08[173] HentenryckM04[172]
Florian Mischek	GeibingerKKMMW21[133] GeibingerMM21[136] GeibingerMM19[135] abs-1911-04766[134]
Jean-Noël Monette	CauwelaertDMS16[76] SchausHMCMD11[326] MonetteDH09[266] MonetteDD07[265]
Margaux Nattaf	NattafM20[278] MalapertN19[254] NattafAL17[277] NattafAL15[276]
Barry O'Sullivan	ArmstrongGOS22[14] ArmstrongGOS21[13] GrimesIOS14[152] IfrimOS12[185]
Yanick Ouellet	OuelletQ22[291] FahimiOQ18[113] KameugneFGOQ18[192] OuelletQ18[290]
Gilles Pesant	AalianPG23[1] DoulabiRP16[104] PesantRR15[301] DoulabiRP14[103]
Thierry Petit	DerrienP14[97] DerrienPZ14[98] ClercqPBJ11[81] abs-0907-0939[302]
Christine Solnon	GroleazNS20[154] GroleazNS20a[153] SacramentoSP20[322] MelgarejoLS15[6]
Marek Vlk	abs-2305-19888[170] HeinzNVH22[169] VlkHT21[387] BenediktSMVH18[49]
József Váncza	KovacsV06[214] KovacsEKV05[211] KovacsV04[213] VanczaM01[374]
Felix Winter	LacknerMMWW23[224] WinterMMW22[396] LacknerMMWW21[223] GeibingerKKMMW21[133]
Armin Wolf	GeitzGSSW22[137] SchuttW10[334] WolfS05[398] Wolf03[397]
Max Åstrand	Astrand0F21[20] Astrand21[19] AstrandJZ20[22] AstrandJZ18[21]
Séverine Betmbe Fetgo	KameugneFND23[193] FetgoD22[116] KameugneFGOQ18[192]
Miquel Bofill	BofillCSV17[57] BofillGSV15[59] BofillEGPSV14[58]
Cid C. de Souza	MouraSCL08[271] MouraSCL08a[270] HeipckeCCS00[171]
Sophie Demassey	HermenierDL11[174] BeldiceanuCDP11[43] Demassey03[94]
Alban Derrien	Derrien15[96] DerrienP14[97] DerrienPZ14[98]
Martin Gebser	TasselGS23[355] abs-2306-05747[356] KovacsTKSG21[215]
Jean-Claude Gentina	KorbaaYG00[207] LopezAKYG00[247] KorbaaYG99[206]
Renaud Hartert	GayHLS15[128] GayHS15[129] cpaioir-GayHS15[130]
Brahim Hnich	GokgurHO18[145] OzturkTHO13[293] RossiTHP07[321]
Andrew J. Davenport	Davenport10[87] DavenportKRSH07[88] BeckDF97[37]
Mikael Johansson	Astrand0F21[20] AstrandJZ20[22] AstrandJZ18[21]
Narendra Jussien	ClercqPBJ11[81] ElkhyariGJ02[107] ElkhyariGJ02a[108]
Tamás Kis	KovacsK11[212] KeriK07[199] KovacsEKV05[211]
Ouajdi Korbaa	KorbaaYG00[207] LopezAKYG00[247] KorbaaYG99[206]
Arnaud Letort	LetortCB15[230] LetortCB13[229] LetortBC12[228]
Arnaud Malapert	NattafM20[278] MalapertN19[254] GrimesHM09[151]
Tony Minoru Tamura Lopes	LopesCSM10[246] MouraSCL08[271] MouraSCL08a[270]
Hiroki Nishikawa	NishikawaSTT19[282] NishikawaSTT18[280] NishikawaSTT18a[281]
Cédric Pralet	SquillaciPR23[346] Pralet17[310] PraletLJ15[311]
Dhananjay R. Thiruvady	abs-2402-00459[279] abs-2211-14492[348] ThiruvadyBME09[361]
Jens Schulz	HeinzSB13[168] HeinzS11[167] BertholdHMLS10[52]
Kana Shimada	NishikawaSTT19[282] NishikawaSTT18[280] NishikawaSTT18a[281]
Gilles Simonin	GodetLHS20[143] SimoninAHL15[342] SimoninAHL12[341]
Josep Suy	BofillCSV17[57] BofillGSV15[59] BofillEGPSV14[58]
Ittetsu Taniguchi	NishikawaSTT19[282] NishikawaSTT18[280] NishikawaSTT18a[281]
Pierre Tassel	TasselGS23[355] abs-2306-05747[356] KovacsTKSG21[215]
Hiroyuki Tomiyama	NishikawaSTT19[282] NishikawaSTT18[280] NishikawaSTT18a[281]
Arnaldo Vieira Moura	LopesCSM10[246] MouraSCL08[271] MouraSCL08a[270]
Mateu Villaret	BofillCSV17[57] BofillGSV15[59] BofillEGPSV14[58]
Daniel Walkiewicz	LacknerMMWW23[224] WinterMMW22[396] LacknerMMWW21[223]
Toby Walsh	GelainPRVW17[138] BessiereHMQW14[53] HebrardTW05[162]
Christophe Wolinski	WolinskiKG04[399] WolinskiKG04a[400] KuchcinskiW03[218]
Pascal Yim	KorbaaYG00[207] LopezAKYG00[247] KorbaaYG99[206]
Alessandro Zanarini	AstrandJZ20[22] AstrandJZ18[21] BonfiettiZLM16[64]
Luis Zeballos	ZeballosQH10[409] ZeballosH05[408] QuirogaZH05[317]
Miguel A. Salido	BartakS11[34] AbrilSB05[3]
Laurence A. Wolsey	HoundjiSWD14[183] SadykovW06[324]
Bruno A. Prata	PrataAN23[312] AbreuNP23[90]
Eddie Armstrong	ArmstrongGOS22[14] ArmstrongGOS21[13]
Maya B. Gokhale	WolinskiKG04[399] WolinskiKG04a[400]

Table 7: Co-Authors of Articles/Papers

Author	Entries
Amelia Badica	BadicaBI20[23] BadicaBIL19[24]
Costin Badica	BadicaBI20[23] BadicaBIL19[24]
Pierre Baptiste	BoucherBVBL97[66] BaptisteLV92[30]
Nicolas Barnier	WangB23[391] WangB20[390]
Ondrej Benedikt	BenediktMH20[48] BenediktSMVH18[49]
Jean-Charles Billaut	BillautHL12[54] LorigeonBB02[248]
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Franklin Nguewouo	PopovicCGNC22[307]
Alain Nguyen	AntuoriHHEN21[11]
Gilberto Nishioka	SerraNM12[335]
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Wim Nuijten	BaptisteLPN06[27]
Jari Nurmi	QuSN06[316]
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Bilal Omar Akram	AkramNHRSA23[7]
Mirza Omer Beg	BegB13[39]
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Mohand Ou Idir Khemmoudj	KhemmoudjPB06[201]
Pierre Ouellet	OuelletQ13[289]
Soukaina Oujana	OujanaAYB22[292]
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Vaibhav Pandey	PandeyS21a[294]
Hoonseok Park	ParkUJR19[297]
Theo Pedersen	HanenKP21[159]
Laurent Perron	DannaP03[85]
Erwin Pesch	MullerMKP22[272]
Mehmet Pinarbasi	GurPAE23[157]
Arthur Pinkney	MartinPY01[258]
David Pisinger	SacramentoSP20[322]
Maximilian Pohl	PohlAK22[305]
Nicola Policella	OddiPCC03[288]
Oliver Polo-Mejía	Polo-MejiaALB20[306]
Paul Pop	BarzegaranZP20[36]
Louis Popovic	PopovicCGNC22[307]
Marc Porcheron	KhemmoudjPB06[201]
Marc Pouly	KoehlerBFFHPSSS21[205]
Guillaume Pováda	PovedaAA23[309]
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Jakob Puchinger	RendlPHPR12[318]
Jean-Francois Puget	Puget95[313]
Vicenç Puig	EscobetPQPRA19[110]
Kenneth Pulliam	KrogtLPHJ07[372]
Kenny Qili Zhu	ZhuS02[417]
Ming Qin	QinWSLS21[314]
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Yang Qu	QuSN06[316]
Yuchen Quan	ShiYXQ22[337]
Joseba Quevedo	EscobetPQPRA19[110]
Dominik R. Bleidorn	KlankeBYE21[203]
Aliza R. Heching	HechingH16[163]
Adrian R. Pearce	BurtLPS15[70]
Levi R. Abreu	PrataAN23[312]
Sebastian Raggl	abs-1902-09244[160]
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Chandra Reddy	DavenportKRSH07[88]
Philippe Refalo	GarganiR07[125]
Yaping Ren	MengZRZL20[262]
Andrea Rendl	RendlPHPR12[318]
Hamid Reza Feyzmahdavian	Astrand0F21[20]
Vahid Riahi	RiahiNS018[319]
Diane Riopel	KhayatLR06[200]
Gregory Rix	PesantRR15[301]
Robert Rodosek	RodosekW98[320]
Brian Rodrigues	LimRX04[233]
Jerome Rogerie	LaborieRSV18[222]
Mohammad Rohaninejad	Mehdizadeh-Somarin23[260]
Maximiliano Rojel	YuraszekMCCR23[406]
Juli Romera	EscobetPQPRA19[110]
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François Roubellat	ArtiguesR00[17]
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Marcelo S. Nagano	PrataAN23[312]
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Eric Sanlaville	PoderBS04[304]
Óscar Sapena	GarridoOS08[127]
Özge Satir Akpunar	IsikYA23[186]
Abdul Sattar	RiahiNS018[319]
Peter Scheiblechner	KoehlerBFFHPSSS21[205]
Klaus Schild	SchildW00[327]
Thomas Schlechte	HeinzSSW12[166]
Thorsten Schmidt	BenderWS21[47]
Gunnar Schrader	WolfS05[398]
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Thiago Serra	SerraNM12[335]
Mei Sha	QinDCS20[315]
Yufen Shao	GoelSHFS15[144]
Ganquan Shi	ShiYXQ22[337]
Zhongshun Shi	QinWSLS21[314]
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Wei Su	MakMS10[253]
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Zheng Sun	SunLYL10[349]
Suresh Sundaram	SureshMOK06[350]
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Armagan Tarim	RossiTHP07[321]
Nikolay Tchernev	BourreauGGLT22[68]
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Stephan Teuschl	FrohnerTR19[122]
Jordan Ticktin	HillTV21[175]
Kevin Tierney	KelarevaTK13[197]
Christian Timpe	Timpe02[362]
Mary Tom	Tom19[363]
Seyda Topaloglu	TopalogluO11[364]
Miguel Toro	ValleMGT03[369]
Meriem Touat	TouatBT22[365]
Touraivane	Touraivane95[366]
Mariem Trojet	TrojetHL11[367]
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Jumyung Um	ParkUJR19[297]
Karen Villaverde	VillaverdeP04[386]
Rebekka Volk	HubnerGSV21[184]
Holger Voos	LunardiBLRV20[249]
Thomas W. M. Vossen	HillTV21[175]
Kai Waelti	KoehlerBFFHPSSS21[205]
Runsen Wang	QinWLSL21[314]
Futian Wang	TangLWSK18[353]
Shouyang Wang	ZhangW18[412]
Tao Wang	WangMD15[392]
Christine Wei Wu	WuBB05[401]
Kong Wei Lye	LauLN08[226]
Johan Wessén	WessenCS20[394]
Jaroslav Wikarek	WikarekS19[395]
Campbell Wilson	He0GLW18[161]
Michael Winkler	HeinzSSW12[166]
David Wittwer	BenderWS21[47]
Jörg Würtz	SchildW00[327]
Quanshi Xia	ChuX05[79]
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Moli Yang	YangSS19[402]
Zhouwang Yang	ShiYXQ22[337]
Jia-Sheng Yao	HoYCLLC18[176]
Min Yao	SunLYL10[349]
Seung Yeob Shin	ShinBBHO18[338]
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Chunxia Yu	ZhangYW21[411]
Xinghuo Yu	MartinPY01[258]
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Cemalettin Öztürk	OzturkTHO13[293]
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Gizem Çakir	SubulanC22[347]

5 Problem Classification

Table 8: Problem Classification Types

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

6 Concept Matching

In order to find out properties of the articles, we try to find concepts in the pdf versions of the articles. 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, and the solvers that are discussed.

Table 9: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
Concepts	Allen's algebra			
Concepts	BOM	SubulanC22[347]		abs-1902-01193[8]
Concepts	activity	AalianPG23[1], PovedaAA23[309], TardivoDFMP23[354], CampeauG22[72], SubulanC22[347], BenderWS21[47], HubnerGSV21[184], KlankeBYE21[203], AstrandJZ20[22], GeibingerMM19[135], MurinR19[273], abs-1902-09244[160], abs-1911-04766[134], AstrandJZ18[21], LaborieRSV18[222], BofillCSV17[57], CappartS17[73], KreterSS17[217], LiuCGM17[239], Pralet17[310], YoungFS17[403], BonfiettiZLM16[64], CauwelaertDMS16[76], GilesH16[140], LimHTB16[234], NovaraNH16[283], SzerediS16[351], DejemeppeCS15[92], KreterSS15[216], LombardiBM15[241], DejemeppeD14[93], DerrienP14[97], GrimesIOS14[152], DerrienPZ14[98], BonfiettiLM14[63], GaySS14[131], NovasH14[287], GuSS13[156], OzturkTHO13[293], cpaio-SchuttFS13[329], BonfiettiLBM12[62], LombardiM12[245], NovasH12[286], SchuttCSW12[328], SerraNM12[335], SimoninAHL12[341], HachemiGR11[158], ClercqPBJ11[81], BonfiettiLBM11[61], KovacsB11[210], LombardiBMB11[242], SchuttFSW11[332], Vilim11[382], ZibranR11a[419], LombardiM10[244], LopesCSM10[246], NovasH10[285], ZeballosQH10[409], LombardiM09[243], MonetteDH09[266], Vilim09[380], abs-0907-0939[302], cpaior-Vilim09[381], DoomsH08[102], KovacsB08[209], LiessM08[232], MouraSCL08[271], DavenportKRSH07[88], KeriK07[199], BeniniBGM06[50], FortinZDF05[118], QuirogaZH05[317], Vilim05[379], VilimBC05[384], ZeballosH05[408], HentenryckM04[172], Vilim04[378], VilimBC04[383], OddiPCC03[288], ElkhyariGJ02[107], ElkhyariGJ02a[108], Muscettola02[275], BaptisteP00[29], ArtiguesR00[17], SakkoutW00[325], GruianK98[155], PapaB98[296], BaptisteP97[28]	Bit-Monnot23[55], YuraszeckMCCR23[406], BoudreaultSLQ22[67], PopovicCGNC22[307], LunardiBLRV20[249], EscobetPQPRA19[110], Novas19[284], YangSS19[402], ShinBBHO18[338], BoothNB16[65], SchuttS16[333], GoelSHFS15[144], VilimLS15[385], DoulabiRP14[103], ChapadosJR11[78], ZibranR11[418], SchuttFSW09[331], GarridoOS08[127], KrogtLPHJ07[372], Simonis07[344], KhayatLR06[200], Geske05[139], DannaP03[85], Bartak02[33], KamarainenS02[190], Mason01[259], RodosekW98[320]	PrataAN23[312], PerezGSL23[299], SquillaciPR23[346], abs- 2305-19888[170], abs-2312-13682[300], HeinzNVH22[169], MullerMKP22[272], OuelletQ22[291], PohlAK22[305], abs-2211-14492[348], HillTV21[175], AstrandOF21[20], GeibingerMM21[136], PandeyS21a[294], ZhangYW21[411], Mercier-AubinGQ20[263], QinDCS20[315], Sacramen- toSP20[322], GalleguillosKSB19[124], Tom19[363], abs- 1902-01193[8], DemirovicS18[95], NishikawaSTT18[280], NishikawaSTT18a[281], Madi-WambaLOBM17[252], MossigeGSMC17[269], NattafAL17[277], GayHLS15[128], MurphyMB15[274], NattafAL15[276], PesantRR15[301], PraletLJ15[311], SimoninAHL15[342], WangMD15[392], Bar- toliniBBLM14[35], AlesioNBG14[99], KelarevaTK13[197], Schut- tFS13[330], HeinzB12[164], LimtanyakulS12[237], EdisO11[105], TrojetHL11[367], MakMS10[253], SchuttW10[334], La- borie09[220], ArtiouchineB05[18], WolfS05[398], PoderBS04[304], Kumar03[219], Wolf03[397], BeldiceanuC02[42], Bartak02a[32], Timpe02[362], Vilim02[376], ZhuS02[417], HeipckeCCS00[171], BeckDF97[37], Colombani96[84], Wallace96[388], Puget95[313]

Table 9: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
Concepts	batch process	LacknerMMWW23[224], LacknerMMWW21[223], QinWSLS21[314], NovaraNH16[283], KoschB14[208]	TangB20[352], NovasH10[285], Vilim02[376], SimonisC95[345]	PrataAN23[312], IsikYA23[186], YuraszeckMCCR23[406], AbreuN22[89], GeitzGSSW22[137], LiFJZLL22[231], MullerMKP22[272], OujanaAYB22[292], FanXG21[115], Klanke- BYE21[203], ZhangYW21[411], MengZRZL20[262], Escob- etPQPRA19[110], FahimiOQ18[113], LaborieRSV18[222], CauwelaertDMS16[76], GrimesH10[149], Simonis07[344], Vil- imBC05[384], ArtiguesBF04[16], Vilim04[378]
Concepts	bill of material			Simonis07[344]
Concepts	buffer-capacity			LiFJZLL22[231], OujanaAYB22[292], NovasH14[287], Zebal- losH05[408]
Concepts	cmax	IsikYA23[186], JuvinHHL23[188], KameugneFND23[193], YuraszeckMC23[405], YuraszeckMCCR23[406], abs-2305-19888[170], FetgoD22[116], AbreuN22[89], abs-2211-14492[348], ArmstrongGOS21[13], AbohashimaEG21[2], QinWSLS21[314], GodetLHS20[143], MengZRZL20[262], QinDCS20[315], MalapertN19[254], WikarekS19[395], GedikKEK18[132], KameugneFGOQ18[192], VilimLS15[385], OzturkTHO13[293], BillautHL12[54], GrimesH11[150], BeldiceanuCDP11[43], LahimerLH11[225], GrimesH10[149], ZeballosQH10[409], ArtiguesBF04[16], PapaB98[296]	Mehdizadeh-Somarin23[260], ArmstrongGOS22[14], BoudreaultSLQ22[67], MullerMKP22[272], Novas19[284], ParkUJR19[297], ArbaouiY18[12], WangMD15[392], ZhouGL15[416], ZhangLS12[413], Muscettola02[275], ArtiguesR00[17]	JuvinHL23[189], HanenKP21[159], HubnerGSV21[184], ZhangYW21[411], BofilCSV17[57], LiuCGM17[239], SialaAH15[340], KoschB14[208], LiessM08[232], WatsonB08[393], AkkerDH07[370], KeriK07[199], KhayatLR06[200], Baptis- teP00[29]
Concepts	completion-time	PrataAN23[312], JuvinHL23[189], KameugneFND23[193], Mehdizadeh-Somarin23[260], FetgoD22[116], AbreuN22[89], OuelletQ22[291], SubulanC22[347], ArmstrongGOS21[13], KlankeBYE21[203], LunardiBLRV20[249], QinDCS20[315], ArbaouiY18[12], FahimiOQ18[113], GedikKEK18[132], KameugneFGOQ18[192], ZhangW18[412], DejemeppeCS15[92], ZhouGL15[416], KoschB14[208], HeinzSB13[168], OuelletQ13[289], OzturkTHO13[293], KelbelH11[198], KovacsB11[210], KovacsK11[212], TrojetHL11[367], Vilim09[380], cpaior-Vilim09[381], KovacsB08[209], ChuX05[79], QuirogaZH05[317], ZeballosH05[408], Wolf03[397], ArtiguesR00[17], SchildW00[327]	abs-2305-19888[170], HeinzNVH22[169], LiFJZLL22[231], MullerMKP22[272], OujanaAYB22[292], abs-2211-14492[348], GeibingerMM21[136], FanXG21[115], HanenKP21[159], QinWSLS21[314], Mercier-AubinGQ20[263], NattafM20[278], BogaerdTW19[371], GeibingerMM19[135], MalapertN19[254], ParkUJR19[297], YangSS19[402], abs-1902-09244[160], abs-1911-04766[134], OuelletQ18[290], CappartS17[73], KreterSS17[217], CauwelaertDMS16[76], ZarandiKS16[407], GaySS14[131], cpaior-SchuttFS13[329], LombardiM12[245], NovasH12[286], EdisO11[105], HermenierDL11[174], GrimesH11[150], KameugneFSN11[194], NovasH10[285], ZeballosQH10[409], LombardiM09[243], MonetteDH09[266], MonetteDD07[265], VilimBC05[384], ArtiguesBF04[16], LimRX04[233], Vilim04[378], VilimBC04[383], Zhou97[415], Goltz95[147]	abs-2402-00459[279], AkramNHRSA23[7], IsikYA23[186], Ju- vinHHL23[188], MontemanniD23a[267], PerezGSL23[299], TasselGS23[355], abs-2306-05747[356], ArmstrongGOS22[14], CampeauG22[72], GeitzGSSW22[137], PohlAK22[305], Popovic- CGNC22[307], WinterMMW22[396], ZhangJZL22[410], HubnerGSV21[184], PandeyS21a[294], VlkHT21[387], GodetLHS20[143], AstrandJZ20[22], MengZRZL20[262], Sacra- mentoSP20[322], WessenCS20[394], MurinR19[273], Novas19[284], Tesch18[360], MossigeGSMC17[269], FontaineMH16[117], No- varaNH16[283], Tesch16[359], EvenSH15a[112], BurtLPS15[70], EvenSH15[111], Kameugne15[191], KreterSS15[216], Lom- bardiBM15[241], VilimLS15[385], WangMD15[392], Ale- sioNBG14[99], GrimesIOS14[152], KameugneFSN14[195], NovasH14[287], SchuttFS13[330], BillautHL12[54], HeinzB12[164], LimtanyakulS12[237], HeinzS11[167], Cler- cqPB11[81], LahimerLH11[225], LombardiBMB11[242], SchuttFSW11[332], Vilim11[382], BertholdHLM10[52], Davenport10[87], LombardiM10[244], DoodsH08[102], Wat- sonB08[393], AkkerDH07[370], ArtiouchineB05[18], Vilim05[379], WolfS05[398], HentenryckM04[172], Sadykov04[323], Odd- iPCC03[288], HeipckeCCS00[171], PapaB98[296], Zhou96[414] GaySS14[131], Bartak02[33], SimonisC95[345]
Concepts	continuous-process			

Table 9: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
Concepts	distributed	PrataAN23[312], MengZRZL20[262], HeOGLW18[161], ZhouGL15[416], BonfiettiLM14[63], BartakS11[34], HoeveGSL07[373], RossiTHP07[321], GomesHS06[148], Geske05[139]	IsikYA23[186], AbreuN22[89], OujanaAYB22[292], ZhangW18[412], ZarandiKS16[407], AlesioNBG14[99], HermenierDL11[174], LopesCSM10[246], SunLYL10[349], BeniniBGM06[50], ZhuS02[417], SchildW00[327], Wallace96[388]	GurPAE23[157], AkramNHSA23[7], Bit-Monnot23[55], KimCMLLP23[202], MontemanniD23[268], SquillaciPR23[346], YuraszeckMC23[405], abs-2305-19888[170], HeinzNVH22[169], BoudreaultSLQ22[67], LiFJZLL22[231], WinterMMW22[396], abs-2211-14492[348], FanXG21[115], GeibingerKKMMW21[133], BenderWS21[47], KovacsTKSG21[215], PandeyS21a[294], VlkHT21[387], ZhangYW21[411], BarzegaranZP20[36], SacramentoSP20[322], WangB20[390], GalleguillosKSB19[124], EscobetPQPRA19[110], BehrensLM19[40], FrohnerTR19[122], Novas19[284], ParkUJR19[297], WikarekS19[395], abs-1901-07914[41], FahimiOQ18[113], LaborieRSV18[222], NishikawaSTT18[280], NishikawaSTT18a[281], MadiWambaLOBM17[252], MossigeGSMC17[269], BoothNB16[65], LimHTB16[234], EvenSH15[111], EvenSH15a[112], LombardiBM15[241], GrimesIOS14[152], KoschB14[208], GuSS13[156], BonfiettiLBM12[62], IfrimOS12[185], LombardiM12[245], ClercqPB11[81], KelbelH11[198], KovacsB11[210], TopalogluO11[364], TrojetHL11[367], ZibranR11a[419], CobanH10[82], MonetteDH09[266], LauLN08[226], MouraSCL08[271], MouraSCL08a[270], KhemmoudjPB06[201], QuSN06[316], Hooker05[178], AbrilSB05[3], VilimBC05[384], WolfS05[398], Hooker04[177], VilimBC04[383], WolinskiKG04[399], KuchcinskiW03[218], OddiPCC03[288], SakkoutW00[325], PapaB98[296], DincbasSH90[101]
Concepts	due-date	OujanaAYB22[292], AntuoriHHEN21[11], FanXG21[115], Mercier-AubinGQ20[263], TangB20[352], Novas19[284], abs-1902-09244[160], abs-1911-04766[134], Tesch18[360], GoldwaserS17[146], NovaraNH16[283], DoulabiRP14[103], HoundjiSWD14[183], KoschB14[208], LimtanyakulS12[237], KelbelH11[198], NovasH10[285], ZeballosQH10[409], MonetteDH09[266], KrogtLPHJ07[372], Simonis07[344], Hooker06[180], Sadykov04[323], PapaB98[296], Zhou97[415], Colombani96[84], Zhou96[414]	PrataAN23[312], IsikYA23[186], LacknerMMWW23[224], WinterMMW22[396], abs-2211-14492[348], GeibingerMM21[136], LacknerMMWW21[223], GeibingerMM19[135], FahimiOQ18[113], ZarandiKS16[407], GrimesIOS14[152], HeinzSB13[168], GrimesH11[150], Davenport10[87], MakMS10[253], SchuttW10[334], ThiruvadyBME09[361], abs-0907-0939[302], MouraSCL08a[270], Limtanyakul07[236], ChuX05[79], QuirogaZH05[317], ZeballosH05[408], cp-Hooker05[179], ArtiguesR00[17], BelhadjiI98[46], BeckDF97[37]	abs-2402-00459[279], JuvinHHL23[188], KimCMLLP23[202], YuraszeckMC23[405], MullerMKP22[272], SubulanC22[347], ZhangJZL22[410], HanenKP21[159], HubnerGSV21[184], KlankeBYE21[203], KovacsTKSG21[215], VlkHT21[387], GroleazNS20[154], AstrandJZ20[22], LunardiBLRV20[249], EscobetPQPRA19[110], ParkUJR19[297], GedikKEK18[132], Laborie18a[221], LaborieRSV18[222], Hooker17[181], Pralet17[310], NattafAL15[276], PraletLJ15[311], Bil-lautHL12[54], HeinzB12[164], IfrimOS12[185], LombardiM12[245], EdisO11[105], ClercqPB11[81], KovacsB11[210], KovacsK11[212], TrojetHL11[367], LopesCSM10[246], Laborie09[220], AkkerDH07[370], BeldiceanuP07[45], KeriK07[199], KhayatLR06[200], FrankK05[119], Hooker05[178], HentenryckM04[172], PoderBS04[304], ElkhyariGJ02a[108], ElkhyariGJ02[107], Timpe02[362], HeipckeCCS00[171], BaptisteP00[29], BaptisteP97[28], Goltz95[147], SimonisC95[345]
Concepts	earliness	PrataAN23[312], KimCMLLP23[202], PohlAK22[305], abs-1902-09244[160], LaborieRSV18[222], ZarandiKS16[407], LombardiM12[245], GrimesH11[150], KelbelH11[198], Laborie09[220], MonetteDH09[266], KeriK07[199], DannaP03[85]	MengZRZL20[262], KovacsB11[210], Davenport10[87]	abs-2402-00459[279], IsikYA23[186], LacknerMMWW23[224], FanXG21[115], LacknerMMWW21[223], Mercier-AubinGQ20[263], ColT19[83], ZhangW18[412], NovaraNH16[283], LimBTBB15[235], SialaAH15[340], VilimLS15[385], HeinzB12[164], EdisO11[105], KovacsK11[212], NovasH10[285], ZeballosQH10[409], KovacsV06[214], QuirogaZH05[317], Bartak02a[32], Bartak02[33], KamarainenS02[190], ArtiguesR00[17]

Table 9: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
Concepts	flow-shop	PrataAN23[312], IsikYA23[186], JuvinHL23[189], ArmstrongGOS22[14], AbreuN22[89], LiFJZLL22[231], OujanaAYB22[292], ZhangJZL22[410], ArmstrongGOS21[13], QinWSLS21[314], AstrandJZ20[22], MengZRZL20[262], Novas19[284], ParkUJR19[297], ZhangW18[412], ZhouGL15[416]	Mehdizadeh-Somarin23[260], FanXG21[115], KoehlerBFFHPSSS21[205], TangB20[352], abs-1902-09244[160], LaborieRSV18[222], GrimesH11[150], KovacsB11[210]	AalianPG23[1], JuvinHHL23[188], TasselGS23[355], YuraszeckMCCR23[406], abs-2305-19888[170], abs-2306-05747[356], HeinzNVH22[169], abs-2211-14492[348], HillTV21[175], KovacsTKSG21[215], LacknerMMWW21[223], PandeyS21a[294], LunardiBLRV20[249], SacramentoSP20[322], WallaceY20[389], WikarekS19[395], ZarandiKS16[407], Oz-turkTHO13[293], BillautHL12[54], LombardiM12[245], KovacsK11[212], GrimesH10[149], BarlattCG08[31], LauLN08[226], QuirogaZH05[317], BaptisteP00[29], SchildW00[327], KorbaaYG99[206], PapaB98[296], BaptisteP97[28], SimonisC95[345]
Concepts	flow-time	FanXG21[115], NattafM20[278], MalapertN19[254], ZhangW18[412]	PrataAN23[312]	TasselGS23[355], YuraszeckMC23[405], YuraszeckMCCR23[406], abs-2306-05747[356], AbreuN22[89], LiFJZLL22[231], KoehlerBFFHPSSS21[205], MengZRZL20[262], Novas19[284], ParkUJR19[297], EdisO11[105], KovacsB11[210], QuirogaZH05[317]
Concepts	inventory	SubulanC22[347], GilesH16[140], GoelSHFS15[144], SerraNM12[335], LopesCSM10[246], RossiTHP07[321], Timpe02[362], BeckDF97[37]	Novas19[284], MakMS10[253], LauLN08[226], MouraSCL08a[270], GarganiR07[125], DavenportKRSH07[88]	PrataAN23[312], GurPAE23[157], PerezGSL23[299], abs-2312-13682[300], AbreuN22[89], PohlAK22[305], HubnerGSV21[184], KovacsTKSG21[215], GroleazNS20[154], WikarekS19[395], abs-1902-09244[160], LaborieRSV18[222], ShinBBHO18[338], SchuttS16[333], SimoninAHL15[342], HoundjiSWD14[183], KelarevaTK13[197], HeinzSSW12[166], LombardiM12[245], KelbelH11[198], Laborie09[220], MouraSCL08[271], KrogtLPHJ07[372], QuirogaZH05[317], SimonisC95[345]

Table 9: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
Concepts	job	PrataAN23[312], abs-2402-00459[279], Bit-Monnot23[55], IsikYA23[186], JuvinHHL23[188], JuvinHL23[189], KimCMLLP23[202], LacknerMMWW23[224], Mehdizadeh-Somarin23[260], TasselGS23[355], WangB23[391], YuraszeckMC23[405], YuraszeckMCCR23[406], abs-2306-05747[356], AbreuN22[89], ArmstrongGOS22[14], GeitzGSSW22[137], LiFJZLL22[231], MullerMKP22[272], OujanaAYB22[292], WinterMMW22[396], ZhangJZL22[410], abs-2211-14492[348], Astrand0F21[20], HillTV21[175], ArmstrongGOS21[13], GeibingerMM21[136], FanXG21[115], KoehlerBFFHPSSS21[205], KovacsTKSG21[215], LacknerMMWW21[223], PandeyS21a[294], QinWSLS21[314], ZhangYW21[411], AstrandJZ20[22], GodetLHS20[143], GroleazNS20[154], BenediktMH20[48], LunardiBLRV20[249], MengZRZL20[262], NattafM20[278], SacramentoSP20[322], TangB20[352], WallaceY20[389], WangB20[390], GalleguillosKSB19[124], BogaerdtW19[371], GeibingerMM19[135], ColT19[83], MalapertN19[254], MurinR19[273], Novas19[284], ParkUJR19[297], WikarekS19[395], abs-1902-09244[160], abs-1911-04766[134], GedikKEK18[132], ArbaouiY18[12], FahimiOQ18[113], BenediktSMVH18[49], Laborie18a[221], LaborieRSV18[222], Tesch18[360], ZhangW18[412], Hooker17[181], Madi-WambaLOBM17[252], MossigeGSMC17[269], Pralet17[310], CauwelaertDMS16[76], FontaineMH16[117], Tesch16[359], DejemeppeCS15[92], SialaAH15[340], VilimLS15[385], BartoliniBBLM14[35], GaySS14[131], DejemeppeD14[93], KoschB14[208], NovasH14[287], CireCH13[80], HeinzKB13[165], HeinzSB13[168], OzturkTHO13[293], SchuttFS13[330], HeinzB12[164], BillautHL12[54], LimtanyakulS12[237], NovasH12[286], RendlPHPR12[318], EdisO11[105], HeinzS11[167], GrimesH11[150], KelbelH11[198], KovacsB11[210], LahimerLH11[225], BertholdHMLS10[52], GrimesH10[149], CobanH10[82], MakMS10[253], NovasH10[285], GrimesHM09[151], AronssonBK09[15], Laborie09[220], MonetteDH09[266], ThiruvadyBME09[361], DoomsH08[102], LauLN08[226], WatsonB08[393], AkkerDH07[370], DavenportKRSH07[88], Limtanyakul07[236], MonetteDD07[265], KhayatLR06[200], DilkinaDH05[100], ChuX05[79], ArtiouchineB05[18], Vilim05[379], VilimBC05[384], ZeballosH05[408], ArtiguesBF04[16], HentenryckM04[172], LimRX04[233], Sadykov04[323], VilimBC04[383], DannaP03[85], Wolf03[397], HookerY02[182], HeipckeCCS00[171], ArtiguesR00[17], SakkoutW00[325], SchildW00[327], BelhadjiI98[46], PapaB98[296], RodosekW98[320], BeckDF97[37], Zhou97[415],	EfthymiouY23[106], abs-2305-19888[170], HeinzNVH22[169], HanenKP21[159], Mercier-AubinGQ20[263], EscobetPQPRA19[110], Tom19[363], PourDERB18[308], CappartS17[73], NattafAL17[277], Madi-WambaB16[251], ZarandiKS16[407], LetortCB15[230], PraletLJ15[311], ZhouGL15[416], BonfiettiLM14[63], LombardiM12[245], KovacsK11[212], Simonis07[344], Hooker06[180], KovacsV06[214], Hooker05[178], HebrardTW05[162], Geske05[139], KovacsV04[213], VerfaillieL01[375], BaptisteP00[29], Caseau97[75], BaptisteP97[28], Puget95[313]	PovedaAA23[309], CampeauG22[72], PohlAK22[305], An- tuoriHHEN21[11], BenderWS21[47], HubnerGSV21[184], KlankeBYE21[203], QinDCS20[315], WessenCS20[394], FrimodigS19[121], BaptisteB18[26], ShinBBHO18[338], HechingH16[163], NovaraNH16[283], BurtLPS15[70], LimBTBB15[235], LombardiBM15[241], MelgarejoLS15[6], WangMD15[392], DerrienPZ14[98], AlesioNBG14[99], BessiereHMQW14[53], KameugneFSN14[195], Bonfiet- tiLBM12[62], IfrimOS12[185], HachemiGR11[158], Bon- fiettiLBM11[61], KameugneFSN11[194], TrojetHL11[367], LopesCSM10[246], ZeballosQH10[409], SchuttFSW09[331], Vilim09[380], BarlattCG08[31], KovacsB08[209], LiessM08[232], HoeveGSL07[373], KeriK07[199], KrogtLPHJ07[372], FrankK05[119], KovacsEKV05[211], WuBB05[401], cp- Hooker05[179], Vilim04[378], ValleMGTO3[369], Vilim03[377], Bartak02a[32], Bartak02[33], KamarainenS02[190], Muscet- tola02[275], Timpe02[362], AngelsmarkJ00[10], Kor- baaYG99[206], CestaOS98[77], Wallace96[388], DincbashSH90[101]

Table 9: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
Concepts	job-shop	PrataAN23[312], abs-2402-00459[279], Bit-Monnot23[55], JuvinHHL23[188], KimCMLLP23[202], Mehdizadeh-Somarin23[260], TasselGS23[355], YuraszeckMCCR23[406], abs-2306-05747[356], GeitzGSSW22[137], LiFJZLL22[231], MullerMKP22[272], OujanaAYB22[292], abs-2211-14492[348], FanXG21[115], KovacsTKSG21[215], ZhangYW21[411], AstrandJZ20[22], LunardiBLRV20[249], MengZRZL20[262], ColT19[83], MurinR19[273], Novas19[284], FahimiOQ18[113], LaborieRSV18[222], ZhangW18[412], Pralet17[310], FontaineMH16[117], CauwelaertDMS16[76], DejemeppeCS15[92], SialaAH15[340], VilimLS15[385], SchuttFS13[330], BillautHL12[54], GrimesH11[150], KelbelH11[198], KovacsB11[210], GrimesH10[149], GrimesHM09[151], MonetteDH09[266], WatsonB08[393], MonetteDD07[265], KhayatLR06[200], DilkinaDH05[100], ArtiouchineB05[18], Vilim05[379], ArtiguesBF04[16], HentenryckM04[172], DannaP03[85], Wolf03[397], ArtiguesR00[17], SakkoutW00[325], SchildW00[327], BelhadjiI98[46], PapaB98[296], BeckDF97[37], Zhou97[415], Colombani96[84], Zhou96[414], Goltz95[147]	EfthymiouY23[106], IsikYA23[186], AbreuN22[89], Astrand0F21[20], ArmstrongGOS21[13], KoehlerBFFHPSSS21[205], QinWSLS21[314], GroleazNS20[154], SacramentoSP20[322], EscobetPQPRA19[110], WikarekS19[395], CappartS17[73], MossigeGSMC17[269], BonfiettiLM14[63], GaySS14[131], LombardiM12[245], AronssonBK09[15], LauLN08[226], KovacsV06[214], HebrardTW05[162], Geske05[139], VilimBC05[384], KovacsV04[213], VilimBC04[383], BaptisteP00[29], Caseau97[75], BaptisteP97[28], Puget95[313], SimonisC95[345]	JuvinHL23[189], LacknerMMWW23[224], PovedaAA23[309], YuraszeckMC23[405], HanenKP21[159], AntuoriH-HEN21[11], KlankeBYE21[203], BenediktMH20[48], Mercier-AubinGQ20[263], WallaceY20[389], WessenCS20[394], FrimodigS19[121], BogaerdtW19[371], ParkUJR19[297], Tom19[363], abs-1902-09244[160], BenediktSMVH18[49], ZarandiKS16[407], BurtLPS15[70], LimBTBB15[235], LombardiBM15[241], PraletLJ15[311], WangMD15[392], ZhouGL15[416], AlesioNBG14[99], DejemeppeD14[93], KameugneFSN14[195], KoschB14[208], NovasH14[287], HeinzKB13[165], BonfiettiLBM12[62], BonfiettiLBM11[61], HachemiGR11[158], KameugneFSN11[194], KovacsK11[212], TrojetHL11[367], LopesCSM10[246], ZeballosQH10[409], Laborie09[220], Vilim09[380], BarlattCG08[31], DoomsH08[102], LiessM08[232], HoeveGSL07[373], DavenportKRS07[88], KeriK07[199], KrogLPHJ07[372], Simonis07[344], KovacsEKV05[211], Vilim04[378], ValleMGTO3[369], Vilim03[377], Bartak02a[32], Bartak02[33], KamarainenS02[190], Muscettola02[275], VerfaillieL01[375], AngelsmarkJ00[10], HeipckeCCS00[171], KorbaaYG99[206], Wallace96[388], DincbasSH90[101]
Concepts	lateness	FahimiOQ18[113], KoschB14[208], Geske05[139], ArtiguesR00[17]	PrataAN23[312], PohlAK22[305], ZhangW18[412], AkkerDH07[370], Sadykov04[323]	LacknerMMWW23[224], GeitzGSSW22[137], HanenKP21[159], KoehlerBFFHPSSS21[205], LacknerMMWW21[223], QinWSLS21[314], Novas19[284], ParkUJR19[297], Tesch18[360], EdisO11[105], NovasH10[285], Bartak02[33]
Concepts	lazy clause generation	KreterSS17[217], KreterSS15[216], KelarevaTK13[197], SchuttFS13[330], cpaioir-SchuttFS13[329], SchuttFSW11[332], SchuttFSW09[331]	Bit-Monnot23[55], PovedaAA23[309], GeitzGSSW22[137], BoudreaultSLQ22[67], OuelletQ22[291], FahimiOQ18[113], SchuttS16[333], SzerediS16[351], SialaAH15[340], BofilLEGPSV14[58], GuSS13[156], SchuttCSW12[328]	KameugneFND23[193], TardivoDFMP23[354], WangB23[391], FetgoD22[116], HillTV21[175], GeibingerMM21[136], GodetLHS20[143], Mercier-AubinGQ20[263], WallaceY20[389], YangSS19[402], BaptisteB18[26], GoldwaserS17[146], BofilCSV17[57], YoungFS17[403], PesantRR15[301], LombardiM12[245], GrimesH11[150], SchuttW10[334]

Table 9: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
Concepts	machine	PrataAN23[312], abs-2402-00459[279], AalianPG23[1], EfthymiouY23[106], IsikYA23[186], JuvinHHL23[188], JuvinHL23[189], KimCMLLP23[202], LacknerMMWW23[224], Mehdizadeh-Somarin23[260], PerezGSL23[299], TasselGS23[355], YuraszeckMC23[405], YuraszeckMCCR23[406], abs-2305-19888[170], abs-2306-05747[356], abs-2312-13682[300], HeinzNVH22[169], AbreuN22[89], GeitzGSSW22[137], ArmstrongGOS22[14], LiFJZLL22[231], MullerMKP22[272], OujanaAYB22[292], WinterMMW22[396], ZhangJZL22[410], abs-2211-14492[348], HanenKP21[159], BenderWS21[47], AstrandOF21[20], AntuoriHHEN21[11], FanXG21[115], ArmstrongGOS21[13], HubnerGSV21[184], KoehlerBFFHPSSS21[205], KovacsTKSG21[215], LacknerMMWW21[223], PandeyS21a[294], QinWSLS21[314], ZhangYW21[411], AstrandJZ20[22], GodetLHS20[143], BenediktMH20[48], GroleazNS20[154], LunardiBLRV20[249], MengZRZL20[262], NattafM20[278], QinDCS20[315], SacramentoSP20[322], TangB20[352], GalleguillosKSB19[124], FrimodigS19[121], EscobetQPRA19[110], BogaerdtW19[371], ColT19[83], MalapertN19[254], MurinR19[273], Novas19[284], ParkUJR19[297], WikarekS19[395], abs-1901-07914[41], abs-1902-09244[160], AstrandJZ18[21], GedikKEK18[132], ArbaouiY18[12], BenediktSMVH18[49], LaborieRSV18[222], Tesch18[360], ZhangW18[412], Madi-WambaLOBM17[252], MossigeGSMC17[269], FontaineMH16[117], BurtLPS15[70], KreterSS15[216], VilimLS15[385], ZhouGL15[416], BessiereHMQW14[53], BartoliniBBLM14[35], GrimesIOS14[152], HoundjiSWD14[183], KoschB14[208], NovasH14[287], OzturkTHO13[293], SchuttFS13[330], BillautHL12[54], IfrimOS12[185], LimtanyakulS12[237], EdisO11[105], GrimesH11[150], KovacsB11[210], KovacsK11[212], LahimerLH11[225], SchuttFSW11[332], GrimesH10[149], MakMS10[253], ZeballosQH10[409], GrimesHM09[151], Laborie09[220], MonetteDH09[266], ThiruvadyBME09[361], LiessM08[232], WatsonB08[393], AkkerDH07[370], DavenportKRSH07[88], Limtanyakul07[236], MonetteDD07[265], Simonis07[344], KhayatLR06[200], DilkinaDH05[100], Geske05[139], ArtiouchineB05[18], QuirogaZH05[317], ZeballosH05[408], ArtiguesBF04[16], HentenryckM04[172], Sadykov04[323], OddiPCC03[288], ValleMGT03[369], Wolf03[397], BeldiceanuC02[42], Bartak02a[32], Timpe02[362], VanczaM01[374], HeipckeCCS00[171], SchildW00[327], KorbaaYG99[206], BelhadjiI98[46], PapaR98[296], Darby-DowmanLMZ97[86]	AkramNHRSA23[7], Bit-Monnot23[55], GurPAEZ23[157], HillTV21[175], AbohashimaEG21[2], KlankeBYE21[203], BehrensLM19[40], FahimiOQ18[113], BaptisteB18[26], He0GLW18[161], ShinBBHO18[338], GoldwasserS17[146], KreterSS17[217], Pralet17[310], CauwelaertDMS16[76], SchuttS16[333], ZarandiKS16[407], DejemeppeCS15[92], MurphyMB15[274], SialaAH15[340], GaySS14[131], BonfiettiLBM12[62], LombardiM12[245], KelbelH11[198], SchuttFSW09[331], KovacsB08[209], LauLN08[226], KovacsV06[214], ChuX05[79], Vilim05[379], VilimBC05[384], VilimBC04[383], HookerY02[182], SakkoutW00[325], Wallace96[388]	KameugneFND23[193], MontemanniD23[268], Boudreault-SLQ22[67], PohlAK22[305], PopovicCGNC22[307], Sub-ulanC22[347], GeibingerMM21[136], BarzegaranZP20[36], Mercier-AubinGQ20[263], WallaceY20[389], WangB20[390], Tom19[363], YangSS19[402], Laborie18a[221], Pour-DERB18[308], BofillCSV17[57], CappartS17[73], Klet-zanderM17[204], LiuCGM17[239], YoungFS17[403], BoothNB16[65], LimHTB16[234], NovaraNH16[283], Szere-diS16[351], GoelSHFS15[144], EvenSH15[111], BofillGSV15[59], EvenSH15a[112], LetortCB15[230], LimBTBB15[235], Lom-bardiBM15[241], MelgarejoLS15[6], cpaior-GayHS15[130], BofillEGPSV14[58], BonfiettiLM14[63], DerrienPZ14[98], GuSS13[156], HeinzKB13[165], CireCH13[80], HeinzSB13[168], LetortCB13[229], cpaior-SchuttFS13[329], HeinzB12[164], LetortBC12[228], NovasH12[286], RendlPHPR12[318], Ser-raNM12[335], HermenierDL11[174], HeinzS11[167], Bon-fiettiLBM11[61], LombardiBMB11[242], TrojetHL11[367], Vilim11[382], NovasH10[285], BarlattCG08[31], Garri-doOS08[127], DoomsH08[102], GarganiR07[125], Ho-eveGSL07[373], KrogLPHJ07[372], Hooker06[180], He-brardTW05[162], Hooker05[178], cp-Hooker05[179], Hooker04[177], KovacsV04[213], LimRX04[233], PoderBS04[304], Vilim04[378], WolinskiKG04[399], DannaP03[85], Bartak02[33], ElkhyariGJ02[107], KamarainenS02[190], MartinPY01[258], Ar-tiguesR00[17], RodosekW98[320], BeckDF97[37], Simonis95[343], SimonisC95[345], DincbasSH90[101]

Table 9: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
Concepts	make to order			OujanaAYB22[292], DavenportKRS07[88], Simonis07[344]
Concepts	make to stock			
Concepts	make-span	PrataAN23[312], EfthymiouY23[106], Bit-Monnot23[55], AalianPG23[1], IsikYA23[186], JuvinHHL23[188], JuvinHL23[189], LacknerMMWW23[224], Mehdizadeh-Somarin23[260], PovedaAA23[309], TasselGS23[355], YuraszeckMC23[405], abs-2305-19888[170], abs-2306-05747[356], AbreuN22[89], GeitzGSSW22[137], BoudreaultSLQ22[67], ArmstrongGOS22[14], HeinzNVH22[169], SubulanC22[347], Astrand0F21[20], ArmstrongGOS21[13], HillTV21[175], BenderWS21[47], KlankeBYE21[203], LacknerMMWW21[223], QinWSLS21[314], ZhangYW21[411], GodetLHS20[143], AstrandJZ20[22], LunardiBLRV20[249], MengZRZL20[262], WessenCS20[394], BehrensLM19[40], ColT19[83], GalleguillosKSB19[124], MalapertN19[254], Novas19[284], ParkUJR19[297], WikarekS19[395], abs-1901-07914[41], abs-1902-09244[160], BaptisteB18[26], FahimiOQ18[113], GedikKEK18[132], LaborieRSV18[222], ZhangW18[412], BofillCSV17[57], MossigeGSMC17[269], Pralet17[310], NovaraNH16[283], SzerediS16[351], BurtLPS15[70], LombardiBM15[241], VilimLS15[385], WangMD15[392], ZhouGL15[416], BonfiettiLM14[63], BartoliniBBLM14[35], DerrienPZ14[98], DejemeppeD14[93], KoschB14[208], NovasH14[287], OzturkTHO13[293], SchuttFS13[330], cpaior-SchuttFS13[329], BonfiettiLBM12[62], NovasH12[286], GrimesH11[150], LombardiBMB11[242], SchuttFSW11[332], GrimesH10[149], CobanH10[82], NovasH10[285], ZeballosQH10[409], GrimesHM09[151], GarridoAO09[126], GarridoOS08[127], WatsonB08[393], KhayatLR06[200], KovacsV06[214], Hooker05[178], DilkinaDH05[100], FortinZDF05[118], ZeballosH05[408], Hooker04[177], HentenryckM04[172], ArtiguesBF04[16], BaptisteP00[29], ArtiguesR00[17], KorbaaYG99[206], PapaB98[296], BeckDF97[37], Darby-DowmanLMZ97[86], BaptisteP97[28]	KameugneFND23[193], PerezGSL23[299], YuraszeckMCCR23[406], abs-2312-13682[300], LiFJZLL22[231], MullerMKP22[272], OujanaAYB22[292], ZhangJZL22[410], abs-2211-14492[348], FanXG21[115], PandeyS21a[294], QinDCS20[315], AstrandJZ18[21], KreterSS17[217], YoungFS17[403], BonfiettiZLM16[64], DejemeppeCS15[92], GayHLS15[128], SialaAH15[340], KameugneFSN14[195], GuSS13[156], BillautHL12[54], LombardiM12[245], SchuttCSW12[328], KovacsB11[210], TrojetHL11[367], LombardiM09[243], ThiruvadyBME09[361], LiessM08[232], AkkerDH07[370], MonetteDD07[265], QuirogaZH05[317], Vilim05[379], VilimBC05[384], KovacsV04[213], VilimBC04[383], Wolf03[397], Timpe02[362]	KimCMLLP23[202], TardivoDFMP23[354], CampeauG22[72], FetgoD22[116], PopovicCGNC22[307], HanenKP21[159], HubnerGSV21[184], KoehlerBFFHPSSS21[205], Mercier- AubinGQ20[263], NattafM20[278], SacramentoSP20[322], TangB20[352], GeibingerMM19[135], MurinR19[273], Tom19[363], abs-1911-04766[134], ArbaouiY18[12], Kameugne- FGOQ18[192], NishikawaSTT18[280], NishikawaSTT18a[281], OuelletQ18[290], Tesch18[360], NattafAL17[277], Cauwelaert- DMS16[76], FontaineMH16[117], SchuttS16[333], Tesch16[359], ZarandiKS16[407], KreterSS15[216], LetortCB15[230], NattafAL15[276], PraletLJ15[311], SimoninAHL15[342], Der- rienP14[97], GaySS14[131], AlesioNBG14[99], CireCH13[80], KelarevaTK13[197], LetortCB13[229], OuelletQ13[289], LetortBC12[228], EdisO11[105], HachemiGR11[158], Bon- fiettiLBM11[61], KameugneFSN11[194], KelbelH11[198], LahimerLH11[225], LombardiM10[244], LopesCSM10[246], SchuttW10[334], MonetteDH09[266], SchuttFSW09[331], abs-0907-0939[302], KeriK07[199], Limtanyakul07[236], BeniniBGM06[50], Hooker06[180], LiuJ06[240], Ar- tiouchineB05[18], CarchraeBF05[74], WuBB05[401], cp- Hooker05[179], ValleMGT03[369], Bartak02a[32], Bartak02[33], ElkhayariGJ02[107], HeipckeCCS00[171], RodosekW98[320], Caseau97[75]
Concepts	manpower	NovaraNH16[283]	LaborieRSV18[222]	WikarekS19[395], BaptisteB18[26], HechingH16[163], SchuttS16[333], cpaior-GayHS15[130], GaySS14[131], Lom- bardIM12[245], Vilim11[382], NovasH10[285], Puget95[313], SimonisC95[345]

Table 9: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
Concepts	multi-agent	BehrensLM19[40], He0GLW18[161], HoeveGSL07[373]	abs-1901-07914[41], LimHTB16[234]	abs-2402-00459[279], Mehdizadeh-Somarin23[260], Squil-laciPR23[346], ZhangYW21[411], WessenCS20[394], WikarekS19[395], ZhangW18[412], LimBTBB15[235], KoschB14[208], BartakS11[34], GomesHS06[148], AbriiSB05[3], Wallace96[388]
Concepts	no preempt			FanXG21[115], MengZRZL20[262], ParkUJR19[297], MonetteDD07[265], ArtiguesR00[17]
Concepts	open-shop	PrataAN23[312], Bit-Monnot23[55], AbreuN22[89], FahimiOQ18[113], GrimesHM09[151], MonetteDD07[265]	MengZRZL20[262], SacramentoSP20[322], GrimesH10[149], Vilim05[379]	KimCMLLP23[202], YuraszeckMC23[405], YuraszeckM-CCR23[406], OujanaAYB22[292], Astrand0F21[20], AstrandJZ20[22], ParkUJR19[297], SialaAH15[340], AlessioNBG14[99], BonfiettiLM14[63], BillautHL12[54], GrimesH11[150], SchuttFSW11[332], SchuttFSW09[331], ThiruvadyBME09[361], ArtiouchineB05[18], VilimBC05[384], HentenryckM04[172], VilimBC04[383], Vilim03[377], ElkhayariGJ02a[108], VerfaillieL01[375]

Table 9: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
Concepts	order	PrataAN23[312], abs-2402-00459[279], EfthymiouY23[106], Bit-Monnot23[55], AalianPG23[1], IsikYA23[186], JuvinHHL23[188], JuvinHL23[189], KameugneFND23[193], KimCMLLP23[202], LacknerMMWW23[224], PerezGSL23[299], PovedaAA23[309], SquillaciPR23[346], TasselGS23[355], WangB23[391], YuraszeckMCCR23[406], abs-2306-05747[356], abs-2312-13682[300], AbreuN22[89], CampeauG22[72], GeitzGSSW22[137], BoudreaultSLQ22[67], FetgoD22[116], LiFJZLL22[231], MullerMKP22[272], OujanaAYB22[292], PohlAK22[305], PopovicCGNC22[307], SubulanC22[347], abs-2211-14492[348], FanXG21[115], AntuoriHHEN21[11], HanenKP21[159], AstrandOF21[20], ArmstrongGOS21[13], HubnerGSV21[184], KlankeBYE21[203], KoehlerBFFHPSSS21[205], KovacsTKSG21[215], LacknerMMWW21[223], PandeyS21a[294], QinWSLS21[314], VlkHT21[387], GroleazNS20[154], AstrandJZ20[22], GodetLHS20[143], BenediktMH20[48], BarzegaranZP20[36], LunardiBLRV20[249], MengZRZL20[262], Mercier-AubinGQ20[263], NattafM20[278], SacramentoSP20[322], WangB20[390], WessenCS20[394], PrimodigS19[121], EscobetPQPRA19[110], GeibingerMM19[135], BehrensLM19[40], LiuLH19[238], MalapertN19[254], MurinR19[273], Novas19[284], ParkUJR19[297], WikarekS19[395], YangSS19[402], abs-1901-07914[41], abs-1902-09244[160], abs-1911-04766[134], GedikKEK18[132], AstrandJZ18[21], FahimiOQ18[113], KameugneFGOQ18[192], LaborieRSV18[222], NishikawaSTT18[280], NishikawaSTT18a[281], OuelletQ18[290], PourDERB18[308], Tesch18[360], ZhangW18[412], CappartS17[73], GoldwaserS17[146], KletzanderM17[204], KreterSS17[217], LiuCGM17[239], Madi-WambaLOBM17[252], MossigeGSMC17[269], Pralet17[310], YoungFS17[403], BoothNB16[65], BonfiettiZLM16[64], CauwelaertDMS16[76], Madi-WambaB16[251], NovaraNH16[283], SchuttS16[333], Tesch16[359], ZarandiKS16[407], EvenSH15a[112], GayHLS15[128], EvenSH15[111], DejemeppeCS15[92], GoelSHFS15[144], LetortCB15[230], LimBTBB15[235], LombardiBM15[241], MelgarejoLS15[6], MurphyMB15[274], NattafAL15[276], PraletLJ15[311], SialaAH15[340], SimoninAHL15[342], VilimLS15[385], WangMD15[392], ZhouGL15[416], GrimesIOS14[152], DerrienP14[97], DerrienPZ14[98], AlesioNBG14[99], GaySS14[131], BessiereHMQW14[53], BonfiettiLM14[63], BofillEGPSV14[58], HoundjiSWD14[183], KameugneFSN14[195], KoschB14[208], NovasH14[287], HeinzSB13[168], KelarevaTK13[197], LetortCB13[229],	GurPAE23[157], MontemanniD23a[267], TardivoDFMP23[354], YuraszeckMC23[405], abs-2305-19888[170], HeinzNVH22[169], ArmstrongGOS22[14], OuelletQ22[291], WinterMMW22[396], BenderWS21[47], HillTV21[175], GeibingerMM21[136], QinDCS20[315], TangB20[352], WallaceY20[389], FrohnerTR19[122], BogaerdtW19[371], ColT19[83], BaptisteB18[26], DemirovicS18[95], ShinBBHO18[338], BofillCSV17[57], GelainPRVW17[138], NattafAL17[277], GilesH16[140], FontaineMH16[117], LimHTB16[234], GayHS15[129], BurtLPS15[70], BofillGSV15[59], KreterSS15[216], PesantRR15[301], DejemeppeD14[93], CireCH13[80], BonfiettiLBM12[62], LahimerLH11[225], LombardiBMB11[242], ZibranR11[418], Davenport10[87], AronssonBK09[15], SchuttFSW09[331], Vilim09[380], abs-0907-0939[302], cpaior-Vilim09[381], LauLN08[226], HoeveGSL07[373], BeldiceanuP07[45], KeriK07[199], BeniniBGM06[50], KhayatLR06[200], LiuJ06[240], Hooker05[178], FortinZDF05[118], ArtiouchineB05[18], Hooker04[177], HentenryckM04[172], WolinskiKG04[399], KuchcinskiW03[218], ElkhyariGJ02a[108], KamarainenS02[190], Muscettola02[275], ArtiguesR00[17], FrostD98[123], BelhadjiI98[46], Caseau97[75], Puget95[313], Touraivane95[366]	AkramNHRSA23[7], Mehdizadeh-Somarin23[260], Monte- manniD23[268], ZhangJZL22[410], AbohashimaEG21[2], ZhangYW21[411], GalleguillosKSB19[124], abs-1902-01193[8], ArbaouiY18[12], He0GLW18[161], BenediktSMVH18[49], Hooker17[181], HechingH16[163], SzerediS16[351], cpaior- GayHS15[130], DoulabiRP14[103], HeinzKB13[165], GuSS13[156], SchuttFS13[330], HeinzB12[164], BonfiettiLBM11[61], ChapadosJR11[78], BertholdHLMS10[52], CobanH10[82], MakMS10[253], SunLYL10[349], Acuna-AgostMFG09[4], ThiruvadyBME09[361], DoomsH08[102], LiessM08[232], AkkerDH07[370], Limtanyakul07[236], GomesHS06[148], He- brardTW05[162], Geske05[139], CarchraeBF05[74], ChuX05[79], AbrilSB05[3], DannaP03[85], Kumar03[219], Vilim03[377], HookerY02[182], AngelsmarkJ00[10], RodosekW98[320], BeckDF97[37], Simonis95[343]

Table 9: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
Concepts	precedence	abs-2402-00459[279], IsikYA23[186], JuvinHHL23[188], PovedaAA23[309], YuraszeckMCCR23[406], BoudreaultSLQ22[67], FetgoD22[116], CampeauG22[72], PohlAK22[305], GeibingerMM21[136], HanenKP21[159], ArmstrongGOS21[13], FanXG21[115], Astrand0F21[20], HillTV21[175], HubnerGSV21[184], KoehlerBFFHPSSS21[205], ZhangYW21[411], GroleazNS20[154], AstrandJZ20[22], LunardiBLRV20[249], MengZRZL20[262], Mercier-AubinGQ20[263], SacramentoSP20[322], WikarekS19[395], abs-1902-09244[160], FahimiOQ18[113], Laborie18a[221], LaborieRSV18[222], NishikawaSTT18[280], NishikawaSTT18a[281], Tesch18[360], ZhangW18[412], BofilCSV17[57], Pralet17[310], YoungFS17[403], BonfiettiZLM16[64], NovaraNH16[283], SchuttS16[333], SzerediS16[351], DejemeppeCS15[92], LetortCB15[230], MelgarejoLS15[6], PraletLJ15[311], SimoninAHL15[342], DerrienPZ14[98], HeinzSB13[168], OuelletQ13[289], OzturkTHO13[293], SchuttFS13[330], BonfiettiLBM12[62], LombardiM12[245], SchuttCSW12[328], ClercqPB11[81], GrimesH11[150], BonfiettiLBM11[61], KelbelH11[198], LombardiBMB11[242], SchuttFSW11[332], TrojetHL11[367], LombardiM10[244], GarridoAO09[126], LombardiM09[243], MonetteDH09[266], SchuttFSW09[331], LiessM08[232], AkkerDH07[370], HoeveGSL07[373], BeniniBGM06[50], KhayatLR06[200], KovacsV06[214], Hooker05[178], Vilim05[379], VilimBC05[384], ArtiguesBF04[16], HentenryckM04[172], KovacsV04[213], Vilim04[378], ValleMGTO3[369], ElkhyariGJ02a[108], Bartak02a[32], Muscettola02[275], VanczaM01[374], HeipckeCCS00[171], BaptisteP00[29], ArtiguesR00[17], SchildW00[327], BaptisteP97[28], DincbasSH90[101]	Bit-Monnot23[55], KameugneFND23[193], TardivoDFMP23[354], OujanaAYB22[292], SubulanC22[347], AntuoriHHEN21[11], VlKHT21[387], QinDCS20[315], WessenCS20[394], BogaerdtW19[371], GeibingerMM19[135], ColT19[83], MurinR19[273], Novas19[284], abs-1911-04766[134], KameugneFGOQ18[192], Madi-WambaLOBM17[252], MossigeGSMC17[269], Madi-WambaB16[251], GayHLS15[128], BurtLPS15[70], LombardiBM15[241], VilimLS15[385], WangMD15[392], BonfiettiLM14[63], KameugneFSN14[195], cpaior-SchuttFS13[329], BillautHL12[54], LimtanyakulS12[237], NovasH12[286], SimoninAHL12[341], HachemiGR11[158], KameugneFSN11[194], GrimesH10[149], LopesCSM10[246], MakMS10[253], NovasH10[285], ZeballosQH10[409], GrimesHM09[151], MouraSCL08[271], DavenportKRSH07[88], KeriK07[199], Hooker06[180], DilkinaDH05[100], FortinZDF05[118], ZeballosH05[408], Hooker04[177], PoderBS04[304], VilimBC04[383], WolinskiKG04[399], Belhadji198[46], BeckDF97[37], Zhou97[415], Zhou96[414]	PrataAN23[312], JuvinHL23[189], KimCMLLP23[202], Mehdezadeh-Somarin23[260], TasselGS23[355], YuraszeckMC23[405], abs-2305-19888[170], abs-2306-05747[356], GeitzGSSW22[137], HeinzNVH22[169], MullerMKP22[272], WinterMMW22[396], ZhangJZL22[410], abs-2211-14492[348], KovacsTKSG21[215], PandeyS21a[294], TangB20[352], DemirovicS18[95], BaptisteB18[26], He0GLW18[161], OuelletQ18[290], CappartS17[73], KreterSS17[217], FontaineMH16[117], CauwelaertDMS16[76], BoothNB16[65], Tesch16[359], GoelSHFS15[144], GayHS15[129], SialaAH15[340], DejemeppeD14[93], GaySS14[131], HoundjiSWD14[183], No- vasH14[287], GuSS13[156], CireCH13[80], KelarevaTK13[197], LetortCB13[229], HeinzB12[164], LetortBC12[228], Sera- raNM12[335], HermenierDL11[174], KovacsB11[210], LahimerLH11[225], Vilim11[382], BertholdHLMS10[52], Laborie09[220], Vilim09[380], KrogtLPHJ07[372], Lim- tanyakul07[236], MonetteDD07[265], QuSN06[316], FrankK05[119], ArtiouchineB05[18], KovacsEKV05[211], QuirogaZH05[317], cp-Hooker05[179], Sadykov04[323], Kuchcin- skiW03[218], OddiPCC03[288], Bartak02[33], ElkhyariGJ02[107], KamarainenS02[190], Vilim02[376], SakkoutW00[325], Colom- bani96[84], Goltz95[147], Simonis95[343]

Table 9: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
Concepts	preempt	JuvinHHL23[188], PovedaAA23[309], SubulanC22[347], HanenKP21[159], FahimiOQ18[113], BaptisteB18[26], ZarandiKS16[407], EvenSH15[111], EvenSH15a[112], AlesioNBG14[99], LombardiM12[245], BeldiceanuCDP11[43], KovacsB11[210], MonetteDD07[265], Wolf03[397], BaptisteP00[29], PapaB98[296], BaptisteP97[28]	PrataAN23[312], abs-2305-19888[170], FetgoD22[116], HeinzNVH22[169], OuelletQ22[291], LunardiBLRV20[249], Mercier-AubinGQ20[263], SacramentoSP20[322], YoungFS17[403], NattafAL15[276], SimoninAHL15[342], OzturkTHO13[293], SimoninAHL12[341], SchuttFSW11[332], Laborie09[220], SchuttFSW09[331], KovacsB08[209], ArtiouchineB05[18]	AkramNHRSA23[7], AalianPG23[1], IsikYA23[186], KameugneFND23[193], MehdiZadeh-Somarin23[260], TardivoDFMP23[354], TasselGS23[355], YuraszeckMC23[405], YuraszeckMCCR23[406], abs-2306-05747[356], AbreuN22[89], BoudreaultSLQ22[67], GeitzGSSW22[137], MullerMKP22[272], OujanaAYB22[292], FanXG21[115], HillTV21[175], ArmstrongGOS21[13], BenderWS21[47], HubnerGSV21[184], KovacsTKSG21[215], QinWSL21[314], ZhangYW21[411], BenediktMH20[48], GroleazNS20[154], MengZRZL20[262], ParkUJR19[297], WikarekS19[395], YangSS19[402], GedikKEK18[132], BenediktSMVH18[49], ShinBBHO18[338], Tesch18[360], ZhangW18[412], BofilCSV17[57], KreterSS17[217], MossigeGSMC17[269], CauwelaertDMS16[76], SchuttS16[333], SzerediS16[351], DejemeppeCS15[92], GayHS15[129], Kameugne15[191], KreterSS15[216], cpaior-GayHS15[130], GrimesIOS14[152], KameugneFSN14[195], HeinzSB13[168], OuelletQ13[289], cpaior-SchuttFS13[329], SchuttCSW12[328], SerraNM12[335], HeinzS11[167], EdisO11[105], KameugneFSN11[194], KelbelH11[198], LahimerLH11[225], TopalogluO11[364], Vilim11[382], BertholdHLMS10[52], CobanH10[82], SchuttW10[334], ZeballosQH10[409], LombardiM09[243], MonetteDH09[266], Vilim09[380], abs-0907-0939[302], cpaior-Vilim09[381], LiessM08[232], MouraSCL08[271], AkkerDH07[370], BeldiceanuP07[45], DavenportKRSH07[88], KhayatLR06[200], Vilim05[379], WolfS05[398], ArtiguesBF04[16], LimRX04[233], PoderBS04[304], Sadykov04[323], Odd-iPCC03[288], ElkhyariGJ02[107], KamarainenS02[190], ArtiguesR00[17], HeipckeCCS00[171], SakkoutW00[325], BelhadjiI98[46], Caseau97[75], Zhou97[415], Colombani96[84]
Concepts	producer/consumer	SchuttS16[333], PoderBS04[304], Kumar03[219], SimonisC95[345]	HermenierDL11[174], BeldiceanuC02[42]	GeitzGSSW22[137], KlankeBYE21[203], Simonis07[344], Timpe02[362], Simonis95[343]
Concepts	re-scheduling	BarzegaranZP20[36], ZhangW18[412], CappartS17[73], Madi-WambaLOBM17[252], GrimesIOS14[152], IfrimOS12[185], LombardiM12[245], RendlPHPR12[318], NovasH10[285], MartinPY01[258], ArtiguesR00[17]	MehdiZadeh-Somarin23[260], KovacsTKSG21[215], AstrandJZ20[22], LimHTB16[234], LimBTBB15[235], CobanH10[82], Acuna-AgostMFG09[4]	PrataAN23[312], EfthymiouY23[106], GurPAE23[157], PerezGSL23[299], TasselGS23[355], abs-2305-19888[170], abs-2306-05747[356], abs-2312-13682[300], ArmstrongGOS22[14], HeinzNVH22[169], PohlAK22[305], KlankeBYE21[203], PandeyS21a[294], ZhangYW21[411], BenediktMH20[48], LunardiBLRV20[249], GalleguillosKSB19[124], GeibingerMM19[135], Tom19[363], abs-1911-04766[134], He0GLW18[161], LaborieRSV18[222], NishikawaSTT18a[281], HechingH16[163], BoothNB16[65], NovaraNH16[283], MurphyMB15[274], WangMD15[392], ZhouGL15[416], DerrienPZ14[98], KelarevaTK13[197], TopalogluO11[364], LopesCSM10[246], GarridoAO09[126], MouraSCL08a[270], HoeveGSL07[373], Simonis07[344], Geske05[139], ArtiouchineB05[18], Bartak02a[32], ElkhyariGJ02[107], ElkhyariGJ02a[108], BaptisteP00[29], SakkoutW00[325], GruianK98[155], PapaB98[296], BaptisteP97[28], BeckDF97[37]

Table 9: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
Concepts	release-date	WinterMMW22[396], HanenKP21[159], EscobetPQPRA19[110], Tesch18[360], KameugneFSN14[195], LimtanyakulS12[237], SerraNM12[335], KameugneFSN11[194], KovacsB11[210], abs-0907-0939[302], AkkerDH07[370], ArtiouchineB05[18], Hooker05[178], Hooker04[177], Zhou97[415], Colombani96[84], Zhou96[414]	PrataAN23[312], LacknerMMWW23[224], LacknerMMWW21[223], GroleazNS20[154], GeibingerMM19[135], abs-1911-04766[134], HeinzSB13[168], KelbelH11[198], Laborie09[220], Limtanyakul07[236], Simonis07[344], Hooker06[180], WuBB05[401], cp-Hooker05[179], Sadykov04[323]	IsikYA23[186], PovedaAA23[309], YuraszeckMC23[405], PohlAK22[305], GeibingerMM21[136], AntuoriHHEN21[11], HillTV21[175], KovacsTKSG21[215], ZhangYW21[411], GodetLHS20[143], Novas19[284], abs-1902-09244[160], Laborie18a[221], LaborieRSV18[222], NattafAL17[277], DejemeppeCS15[92], NattafAL15[276], KoschB14[208], HeinzKB13[165], HeinzB12[164], BillautHL12[54], Cler- cqPBJ11[81], GrimesH11[150], KovacsK11[212], Daven- port10[87], SchuttW10[334], MonetteDH09[266], KovacsB08[209], BeldiceanuP07[45], ChuX05[79], QuirogaZH05[317], Ar- tiquesBF04[16], PoderBS04[304], HeipckeCCS00[171], Bap- tisteP00[29], ArtiguesR00[17], BelhadjiI98[46], BaptisteP97[28], BeckDF97[37]

Table 9: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
Concepts	resource	PrataAN23[312], abs-2402-00459[279], AalianPG23[1], GurPAE23[157], JuvinHHL23[188], KameugneFND23[193], PovedaAA23[309], TardivoDFMP23[354], WangB23[391], YuraszeckMCCR23[406], abs-2305-19888[170], FetgoD22[116], HeinzNVH22[169], GeitzGSSW22[137], CampeauG22[72], AbreuN22[89], BoudreaultSLQ22[67], OuelletQ22[291], OujanaAYB22[292], SubulanC22[347], BenderWS21[47], HillTV21[175], HanenKP21[159], GeibingerMM21[136], HubnerGSV21[184], KovacsTKSG21[215], PandeyS21a[294], VlkHT21[387], ZhangYW21[411], GroleazNS20[154], GodetLHS20[143], AstrandJZ20[22], MengZRZL20[262], Mercier-AubinGQ20[263], QinDCS20[315], SacramentoSP20[322], WangB20[390], GalleguillosKSB19[124], EscobetPQPRA19[110], BehrensLM19[40], GeibingerMM19[135], LiuLH19[238], MalapertN19[254], MurinR19[273], Novas19[284], Tom19[363], WikarekS19[395], YangSS19[402], abs-1901-07914[41], abs-1902-09244[160], abs-1911-04766[134], FahimiOQ18[113], ArbaouiY18[12], BaptisteB18[26], DemirovicS18[95], KameugneFGOQ18[192], Laborie18a[221], LaborieRSV18[222], NishikawaSTT18[280], NishikawaSTT18a[281], OuelletQ18[290], ShinBBHO18[338], Tesch18[360], CappartS17[73], BofilCSV17[57], KreterSS17[217], Madi-WambaLOBM17[252], MossigeGSMC17[269], NattafAL17[277], Pralet17[310], YoungFS17[403], BonfiettiZLM16[64], GilesH16[140], FontaineMH16[117], CauwelaertDMS16[76], Madi-WambaB16[251], NovaraNH16[283], SchuttS16[333], SzerediS16[351], Tesch16[359], DejemeppeCS15[92], GoelSHFS15[144], EvenSH15a[112], EvenSH15[111], BurtLPS15[70], GayHS15[129], Kameugne15[191], KreterSS15[216], LetortCB15[230], LombardiBM15[241], NattafAL15[276], PraletLJ15[311], SialaAH15[340], SimoninAHL15[342], VilimLS15[385], WangMD15[392], cpaior-GayHS15[130], GaySS14[131], DejemeppeD14[93], BartoliniBBLM14[35], AlesioNBG14[99], BessiereHMQW14[53], BonfiettiLM14[63], GrimesIOS14[152], KameugneFSN14[195], KoschB14[208], NovasH14[287], HeinzKB13[165], GuSS13[156], HeinzSB13[168], KelarevaTK13[197], LetortCB13[229], OuelletQ13[289], OzturkTHO13[293], SchuttFS13[330], cpaior-SchuttFS13[329], BonfiettiLBM12[62], HeinzB12[164], LetortBC12[228], LimtanyakulS12[237], LombardiM12[245], NovasH12[286], SchuttCSW12[328], SerraNM12[335], SimoninAHL12[341], HachemiGR11[158], ClercqPBJ11[81], BeldiceanuCDP11[43], BonfiettiLBM11[61], HeinzS11[167], EdisO11[105], HermenierDJ11[174], GrimesH11[150]	Bit-Monnot23[55], Caballero23[71], IsikYA23[186], PerezGSL23[299], TasselGS23[355], abs-2306-05747[356], abs-2312-13682[300], MullerMKP22[2372], PohlAK22[305], WinterMMW22[396], abs-2211-14492[348], AstrandOF21[20], KlankeBYE21[203], LunardiBLRV20[249], TangB20[352], WallaceY20[389], FrimodigS19[121], ParkUJR19[297], abs-1902-01193[8], GedikKEK18[132], BenediktSMVH18[49], GelainPRVW17[138], GoldwaserS17[146], BoothNB16[65], ZhouGL15[416], DerrienP14[97], DoulabiRP14[103], DerrienPZ14[98], KovacsK11[212], Davenport10[87], MakMS10[253], MonetteDH09[266], MouraSCL08a[270], WatsonB08[393], Limtanyakul07[236], ArtiouchineB05[18], KovacsEKV05[211], WuBB05[401], cp-Hooker05[179], Wolf03[397], Vilim02[376], Darby-DowmanLMZ97[86], Goltz95[147], ErtlK91[109], DincbasSH90[101]	AkramNHRSA23[7], MontemanniD23[268], SquillaciPR23[346], ArmstrongGOS22[14], PopovicCGNC22[307], ZhangJZL22[410], AbohashimaEG21[2], AntuoriHHEN21[11], Armstrong- GOS21[13], FanXG21[115], KoehlerBFFHPSSS21[205], BarzegaranZP20[36], NattafM20[278], ColT19[83], As- trandJZ18[21], ZhangW18[412], Hooker17[181], Kletzan- derM17[204], ZarandiKS16[407], GayHLS15[128], Melgare- joLS15[6], MurphyMB15[274], Siala15[339], HoundjiSWD14[183], CireCH13[80], BillautHL12[54], IfrimOS12[185], ZibranR11a[419], ThiruvadyBME09[361], BarlattCG08[31], GarganiR07[125], Mon- etteDD07[265], RossiTHP07[321], LiuJ06[240], FortinZDF05[118], FrankK05[119], ArtiguesBF04[16], Tsang03[368], Timpe02[362], MartinPY01[258], AngelsmarkJ00[10], RodosekW98[320], Colom- bani96[84]

Table 9: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
Concepts	scheduling	PrataAN23[312], abs-2402-00459[279], AalianPG23[1], EfthymiouY23[106], AkramNHRSA23[7], Bit-Monnot23[55], GurPAE23[157], Caballero23[71], IsikYA23[186], JuvinHHL23[188], JuvinHL23[189], KameugneFND23[193], KimCMLLP23[202], LacknerMMWW23[224], Mehdizadeh-Somarin23[260], MontemanniD23[268], MontemanniD23a[267], PerezGSL23[299], PovedaAA23[309], SquillaciPR23[346], TardivoDFMP23[354], TasselGS23[355], WangB23[391], YuraszeckMC23[405], YuraszeckMCCR23[406], abs-2305-19888[170], abs-2306-05747[356], abs-2312-13682[300], HeinzNVH22[169], ArmstrongGOS22[14], FetgoD22[116], BoudreaultSLQ22[67], CampeauG22[72], GeitzGSSW22[137], AbreuN22[89], LiFJZLL22[231], MullerMKP22[272], OuelletQ22[291], OujanaAYB22[292], PohlAK22[305], PopovicCGNC22[307], SubulanC22[347], WinterMMW22[396], ZhangJZL22[410], abs-2211-14492[348], HanenKP21[159], AbohashimaEG21[2], Astrand0F21[20], AntuoriHHEN21[11], ArmstrongGOS21[13], BenderWS21[47], GeibingerKKMMW21[133], HillTV21[175], FanXG21[115], GeibingerMM21[136], HubnerGSV21[184], KlankeBYE21[203], KoehlerBFFHPSSS21[205], KovacsTKSG21[215], LacknerMMWW21[223], PandeyS21a[294], QinWSLS21[314], VlkHT21[387], ZhangYW21[411], GodetLHS20[143], GroleazNS20[154], BarzegaranZP20[36], BenediktMH20[48], AstrandJZ20[22], LunardiBLRV20[249], MengZRZL20[262], Mercier-AubinGQ20[263], NattafM20[278], QinDCS20[315], SacramentoSP20[322], TangB20[352], WallaceY20[389], WangB20[390], WessenCS20[394], BehrensLM19[40], EscobetPQPRA19[110], FrimodigS19[121], FrohnerTR19[122], ColT19[83], GalleguillosKSB19[124], GeibingerMM19[135], BogaerdtW19[371], LiuLH19[238], MalapertN19[254], MurinR19[273], Novas19[284], ParkUJR19[297], Tom19[363], WikarekS19[395], YangSS19[402], abs-1901-07914[41], abs-1902-01193[8], abs-1902-09244[160], abs-1911-04766[134], FahimiOQ18[113], GedikKEK18[132], BenediktSMVH18[49], ArbaouiY18[12], DemirovicS18[95], BaptisteB18[26], He0GLW18[161], AstrandJZ18[21], KameugneFGOQ18[192], Laborie18a[221], LaborieRSV18[222], NishikawaSTT18[280], NishikawaSTT18a[281], OuelletQ18[290], PourDERB18[308], ShinBBHO18[338], Tesch18[360], ZhangW18[412], GelainPRVW17[138], CappartS17[73], GoldwaserS17[146], BofillCSV17[57], KletzanderM17[204], KreterSS17[217], LiuCGM17[239], Madi-WambaLOBM17[252], MossigeGSMC17[269], NattafAL17[277], Pralet17[310], YouneFS17[403]	GayHS15[129], Kameugne15[191], BessiereHMQW14[53], HoundjiSWD14[183], LetortCB13[229], LetortBC12[228], ClercqPB11[81], ChapadosJR11[78], Acuna-AgostMFG09[4], Baptiste09[25], abs-0907-0939[302], GomesHS06[148], DilkinaDH05[100], HebrardTW05[162], WuBB05[401], ValleMGT03[369], Vilim03[377], HookerY02[182], Vilim02[376], FrostD98[123], CestaOS98[77], Touraivane95[366]	Hooker17[181], RossiTHP07[321], AbrilSB05[3], VanczaM01[374]

Table 9: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
Concepts	sequence setup	dependent GedikKEK18[132]	IsikYA23[186], GeitzGSSW22[137], MengZRZL20[262], LombardiM12[245], Simonis07[344], ArtiguesBF04[16]	PrataAN23[312], abs-2305-19888[170], HeinzNVH22[169], OujanaAYB22[292], PohlAK22[305], ArmstrongGOS21[13], Mercier-AubinGQ20[263], MalapertN19[254], Novas19[284], FahimiOQ18[113], ArbaouiY18[12], LaborieRSV18[222], Pralet17[310], CauwelaertDMS16[76], NovaraNH16[283], DejemeppeCS15[92], KovacsK11[212], GrimesH10[149], Laborie09[220], AkkerDH07[370], DavenportKRSH07[88], VilimBC05[384], Vilim04[378], Vilim02[376]
Concepts	setup-time	PrataAN23[312], IsikYA23[186], LacknerMMWW23[224], abs-2305-19888[170], AbreuN22[89], GeitzGSSW22[137], HeinzNVH22[169], OujanaAYB22[292], PohlAK22[305], WinterMMW22[396], LacknerMMWW21[223], GroleazNS20[154], LunardiBLRV20[249], MengZRZL20[262], Mercier-AubinGQ20[263], NattafM20[278], QinDCS20[315], BogaerdW19[371], MalapertN19[254], MurinR19[273], Novas19[284], ArbaouiY18[12], GedikKEK18[132], ZhangW18[412], Pralet17[310], CauwelaertDMS16[76], DejemeppeCS15[92], LombardiM12[245], GrimesH10[149], DavenportKRSH07[88], Simonis07[344], ArtiguesBF04[16]	KimCMLLP23[202], LiFJZLL22[231], FanXG21[115], ArmstrongGOS21[13], AstrandJZ20[22], LaborieRSV18[222], NovaraNH16[283], GaySS14[131], KelarevaTK13[197], OzturkTHO13[293], ThiruvadyBME09[361], BeniniBGM06[50], Timpe02[362], Vilim02[376]	EfthymiouY23[106], JuvinHHL23[188], JuvinHL23[189], Mehdizadeh-Somarin23[260], YuraszeckMCCR23[406], MullerMKP22[272], ZhangJZL22[410], abs-2211-14492[348], AbohashimaEG21[2], BenderWS21[47], ZhangYW21[411], GodetLHS20[143], BehrensLM19[40], WikarekS19[395], abs-1902-09244[160], FahimiOQ18[113], GilesH16[140], GoelSHF15[144], MelgarejoLS15[6], SialaAH15[340], ZhouGL15[416], DejemeppeD14[93], BessiereHMQW14[53], BillautHL12[54], NovasH10[285], Laborie09[220], BarlattCG08[31], KhayatLR06[200], KovacsV06[214], KovacsEKV05[211], VilimBC05[384], Vilim04[378], ArtiguesR00[17], PapaB98[296], ErtlK91[109]
Concepts	stock level	LopesCSM10[246], SimonisC95[345]	RossiTHP07[321], Timpe02[362]	KhemmoudjPB06[201]
Concepts	tardiness	PrataAN23[312], IsikYA23[186], KimCMLLP23[202], LacknerMMWW23[224], AbreuN22[89], OujanaAYB22[292], PohlAK22[305], WinterMMW22[396], abs-2211-14492[348], FanXG21[115], AntuoriHHEN21[11], LacknerMMWW21[223], MengZRZL20[262], Mercier-AubinGQ20[263], TangB20[352], BogaerdW19[371], ParkUJR19[297], abs-1902-09244[160], LaborieRSV18[222], NovaraNH16[283], ZarandiKS16[407], BartoliniBBLM14[35], LombardiM12[245], GrimesH11[150], KelbelH11[198], KovacsB11[210], Davenport10[87], CobanH10[82], Laborie09[220], MonetteDH09[266], KeriK07[199], Hooker06[180], ZeballosH05[408], cp-Hooker05[179], HentenryckM04[172], DannaP03[85]	abs-2402-00459[279], SubulanC22[347], KovacsTKSG21[215], GroleazNS20[154], GedikKEK18[132], Hooker17[181], NovasH10[285], Hooker05[178], QuirogaZH05[317]	JuvinHL23[189], Mehdizadeh-Somarin23[260], TasselGS23[355], abs-2306-05747[356], LiFJZLL22[231], ZhangJZL22[410], GeibingerMM21[136], HanenKP21[159], HubnerGSV21[184], KoehlerBFFHPSSS21[205], QinWLS21[314], VlKHT21[387], LunardiBLRV20[249], QinDCS20[315], Novas19[284], Tom19[363], ZhangW18[412], DejemeppeCS15[92], BurtLPS15[70], LimBTBB15[235], MelgarejoLS15[6], PraletLJ15[311], SialaAH15[340], ZhouGL15[416], CireCH13[80], HeinzKB13[165], KelarevaTK13[197], BillautHL12[54], HeinzB12[164], LimtanyakulS12[237], EdisO11[105], KovacsK11[212], ZeballosQH10[409], ThiruvadyBME09[361], KovacsB08[209], BeniniBGM06[50], KovacsV06[214], Hooker04[177], Bartak02a[32]

Table 9: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
Concepts	task	PrataAN23[312], abs-2402-00459[279], AkramNHRSA23[7], JuvinHHL23[188], JuvinHL23[189], KameugneFND23[193], PovedaAA23[309], WangB23[391], YuraszekMCCR23[406], abs-2305-19888[170], CampeauG22[72], BoudreaultSLQ22[67], FetgoD22[116], HeinzNVH22[169], GeitzGSSW22[137], LiFJZLL22[231], OuelletQ22[291], SubulanC22[347], abs-2211-14492[348], Astrand0F21[20], ArmstrongGOS21[13], HillTV21[175], HanenKP21[159], KlankeBYE21[203], KoehlerBFFHPSSS21[205], KovacsTKSG21[215], PandeyS21a[294], GodetLHS20[143], Mercier-AubinGQ20[263], QinDCS20[315], WangB20[390], WessenCS20[394], BehrensLM19[40], GeibingerMM19[135], EscobetPQPRA19[110], Novas19[284], Tom19[363], YangSS19[402], abs-1901-07914[41], abs-1911-04766[134], AstrandJZ18[21], BaptisteB18[26], FahimiOQ18[113], KameugneFGOQ18[192], LaborieRSV18[222], NishikawaSTT18[280], NishikawaSTT18a[281], OuelletQ18[290], PourDERB18[308], ShinBBHO18[338], KreterSS17[217], Madi-WambaLOBM17[252], MossigeGSMC17[269], NattafAL17[277], GilesH16[140], BoothNB16[65], FontaineMH16[117], Madi-WambaB16[251], NovaraNH16[283], GayHS15[129], EvenSH15[111], GoelSHFS15[144], EvenSH15a[112], BurtLPS15[70], KreterSS15[216], LetortCB15[230], MurphyMB15[274], NattafAL15[276], PraletLJ15[311], SialaAH15[340], SimoninAHL15[342], VilimLS15[385], ZhouGL15[416], cpaior-GayHS15[130], GrimesIOS14[152], AlesioNBG14[99], BessiereHMQW14[53], KameugneFSN14[195], NovasH14[287], KelarevaTK13[197], LetortCB13[229], OuelletQ13[289], OzturkTHO13[293], SchuttFS13[330], cpaior-SchuttFS13[329], IfrimOS12[185], LetortBC12[228], LombardiM12[245], NovasH12[286], SimoninAHL12[341], GrimesH11[150], BeldiceanuCDP11[43], HermenierDL11[174], BonfiettiLBM11[61], HachemiGR11[158], KameugneFSN11[194], KelbelH11[198], KovacsK11[212], LahimerLH11[225], LombardiBMB11[242], SchuttFSW11[332], TrojetHL11[367], Vilim11[382], GrimesH10[149], LombardiM10[244], NovasH10[285], SchuttW10[334], SunLYL10[349], ZeballosQH10[409], GarridoAO09[126], AronssonBK09[15], GrimesHM09[151], Laborie09[220], LombardiM09[243], MonetteDH09[266], SchuttFSW09[331], abs-0907-0939[302], cpaior-Vilim09[381], BarlattCG08[31], GarridoOS08[127], BeldiceanuCP08[44], LiessM08[232], HoeveGSL07[373], BeldiceanuP07[45], MonetteDD07[265], Simonis07[344], GomesHS06[148], BeniniBGM06[50]	Bit-Monnot23[55], IsikYA23[186], LacknerMMWW23[224], MontemanniD23[268], MontemanniD23a[267], SquillaciPR23[346], AbreuN22[89], MullerMKP22[272], OujanaAYB22[292], PopovicCGNC22[307], WinterMMW22[396], GeibingerMM21[136], BenderWS21[47], HubnerGSV21[184], BarzegaranZP20[36], WallaceY20[389], WikarekS19[395], DemirovicS18[95], LiuCGM17[239], YoungFS17[403], HechingH16[163], GayHLS15[128], Kameugne15[191], LombardiBM15[241], BartoliniBBLM14[35], BofilLEGPSV14[58], BonfiettiLM14[63], Vilim05[379], MartinPY01[258], AngelsmarkJ00[10], PapaB98[296]	EftymiouY23[106], Mehdezadeh-Somarin23[260], PerezGSL23[299], TardivoDFMP23[354], TasselGS23[355], abs-2306-05747[356], abs-2312-13682[300], Armstrong- GOS22[14], ZhangJZL22[410], FanXG21[115], Antuori- HHEN21[11], LacknerMMWW21[223], ZhangYW21[411], AstrandJZ20[22], BenediktMH20[48], MengZRZL20[262], SacramentoSP20[322], FrimodigS19[121], MalapertN19[254], MurinR19[273], ParkUJR19[297], abs-1902-01193[8], abs- 1902-09244[160], GedikKEK18[132], Laborie18a[221], Tesch18[360], CappartS17[73], CauwelaertDMS16[76], Szere- diS16[351], ZarandiKS16[407], DejemeppeCS15[92], Melgare- joLS15[6], WangMD15[392], DoulabiRP14[103], CireCH13[80], HeinzSSW12[166], EdisO11[105], ChapadosJR11[78], Bar- takS11[34], SchausHMCMD11[326], TopalogluO11[364], LopesCSM10[246], MakMS10[253], DoomsH08[102], Lim- tanyakul07[236], LiuJ06[240], CarchraeBF05[74], VilimBC05[384], HentenryckM04[172], Sadykov04[323], Vilim04[378], Odd- iPCC03[288], Mason01[259], VerfaillieL01[375], BaptisteP00[29], SakkoutW00[325], KorbaaYG99[206], GruianK98[155], Bap- tisteP97[28], BeckDF97[37], Puget95[313], Simonis95[343], Touraivane95[366], ErtIK91[109]

Table 9: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
Concepts	temporal constraint reasoning			KeriK07[199], FortinZDF05[118]
Concepts	transportation	ArmstrongGOS22[14], GeitzGSSW22[137], PohlAK22[305], ArmstrongGOS21[13], QinDCS20[315], SacramentoSP20[322], MurinR19[273], PourDERB18[308], GoelSHFS15[144], NovasH14[287], KelarevaTK13[197], NovasH12[286], HachemiGR11[158], LopesCSM10[246], ZeballosH05[408]	KimCMLLP23[202], AbreuN22[89], PopovicCGNC22[307], SubulanC22[347], AbohashimaEG21[2], MengZRZL20[262], LaborieRSV18[222], EvenSH15[111], MelgarejoLS15[6], RendlPHPR12[318], MakMS10[253], MouraSCL08[271], MouraSCL08a[270], LimRX04[233], Mason01[259], ArtiguesR00[17], Wallace96[388]	AalianPG23[1], IsikYA23[186], MontemanniD23a[267], PerezGSL23[299], WangB23[391], abs-2312-13682[300], BoudreaultSLQ22[67], LiFJZLL22[231], ZhangJZL22[410], abs-2211-14492[348], AntuoriHHEN21[11], HubnerGSV21[184], WallaceY20[389], Novas19[284], Tom19[363], abs-1902-09244[160], GedikKEK18[132], He0GLW18[161], ShinBBHO18[338], ZhangW18[412], GoldwaserS17[146], KletzanderM17[204], LiuCGM17[239], GilesH16[140], ZarandiKS16[407], EvenSH15a[112], PesantRR15[301], SimoninAHL15[342], ZhouGL15[416], HoundjiSWD14[183], LombardiM12[245], KovacsK11[212], TopalogluO11[364], ZeballosQH10[409], Acuna-AgostMFG09[4], AronssonBK09[15], BarlattCG08[31], LauLN08[226], Simonis07[344], ValleMGTO3[369], KamarainenS02[190], MartinPY01[258], SakkoutW00[325], KorbaaYG99[206], RodosekW98[320], Puget95[313], Simonis95[343], SimonisC95[345]
Classification	2BPHFSP	TangB20[352]		
Classification	BPCTOP	KelarevaTK13[197]		
Classification	Bulk Port Cargo Throughput Optimisation Problem			KelarevaTK13[197]
Classification	CECSP	NattafAL17[277], NattafAL15[276]		
Classification	CHSP	EfthymiouY23[106], WallaceY20[389]		
Classification	CTW	KoehlerBFFHPSSS21[205]		KameugneFND23[193]
Classification	CuSP	KameugneFND23[193], FetgoD22[116], KameugneFGOQ18[192], Tesch18[360], Tesch16[359], NattafAL15[276], DerrienPZ14[98], KameugneFSN14[195], KameugneFSN11[194], SchuttW10[334]	OuelletQ13[289]	TardivoDFMP23[354], HanenKP21[159], DerrienP14[97]
Classification	EOSP		SquillaciPR23[346], BoudreaultSLQ22[67]	FrankK05[119]
Classification	Earth Observation Scheduling Problem		SquillaciPR23[346]	
Classification	FJS	WangB23[391], YuraszeckMCCR23[406], MullerMKP22[272], LunardiBLRV20[249], MengZRZL20[262], WangB20[390], Novas19[284], MossigeGSMC17[269], HermenierDL11[174]	OujanaAYB22[292], abs-1902-09244[160], ZhangW18[412], SchuttFS13[330]	ZhouGL15[416]
Classification	Fixed Job Scheduling	WangB20[390]	WangB23[391]	
Classification	GCSP	GroleazNS20[154]		
Classification	HFF	ArmstrongGOS22[14], OujanaAYB22[292], ArmstrongGOS21[13], ZhouGL15[416]		
Classification	JSPT		MurinR19[273]	
Classification	JSSP	JuvinHHL23[188], TasselGS23[355], YuraszeckMC23[405], YuraszeckMCCR23[406], abs-2306-05747[356], GeitzGSSW22[137], ColT19[83], Pralet17[310], KelbelH11[198], PapaB98[296]	GalleguillosKSB19[124], LombardiBM15[241], SialaAH15[340], BelhadjiI98[46]	EfthymiouY23[106], MehdiZadeh-Somarin23[260], WikarekS19[395], PraletLJ15[311]
Classification	KRFP	KamarainenS02[190], SakkoutW00[325]		
Classification	LSFRP	KelarevaTK13[197]		
Classification	Liner Shipping Fleet Repositioning Problem		KelarevaTK13[197]	
Classification	MGAP	Darby-DowmanLMZ97[86]		
Classification	Modified Generalized Assignment Problem			

Table 9: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
Classification	OSP	Bit-Monnot23[55], GurPAE23[157], LacknerMMWW23[224], SquillaciPR23[346], GeibingerKKMMW21[133], LacknerMMWW21[223], abs-1902-01193[8], ShinBBHO18[338], HechingH16[163], GayHLS15[128], WangMD15[392], TopalogluO11[364], Simonis07[344]	BoudreaultSLQ22[67], QinWSLS21[314], DoulabiRP14[103], GrimesHM09[151], MonetteDD07[265], FrankK05[119]	MontemanniD23[268], PerezGSL23[299], PovedaAA23[309], WangB23[391], abs-2312-13682[300], MullerMKP22[272], KoehlerBFFHPSSS21[205], MengZRZL20[262], TangB20[352], LaborieRSV18[222], ZhangW18[412], GoldwasserS17[146], KreterSS17[217], Pralet17[310], YoungFS17[403], SchuttS16[333], KreterSS15[216], PraletLJ15[311], GaySS14[131], SchuttFS13[330], cpaior-SchuttFS13[329], SchuttCSW12[328], SerraNM12[335], SimoninAHL12[341], LopesCSM10[246], WolfS05[398], SchildW00[327], PapaB98[296], Wallace96[388], Puget95[313]
Classification	OSSP	YuraszeckMC23[405], AbreuN22[89]		YuraszeckMCCR23[406]
Classification	Open Shop Scheduling Problem	AbreuN22[89]		PrataAN23[312], Bit-Monnot23[55], YuraszeckMCCR23[406], MengZRZL20[262], SacramentoSP20[322], GrimesH10[149], GrimesHM09[151], MonetteDD07[265], VerfaillieL01[375]
Classification	PJSSP	JuvinHHL23[188]	PapaB98[296]	
Classification	PMSP	WinterMMW22[396], PandeyS21a[294], GodetLHS20[143], MalapertN19[254], GedikKEK18[132]	VlkHT21[387], NattafM20[278]	OujanaAYB22[292]
Classification	PP-MS-MMRCPP			
Classification	PTC	NattafM20[278], MalapertN19[254], HeinzKB13[165], HeinzB12[164]		
Classification	Pre-emptive Job-Shop scheduling Problem			
Classification	RCPSP	PovedaAA23[309], YuraszeckMCCR23[406], CampeauG22[72], BoudreaultSLQ22[67], FetgoD22[116], SubulanC22[347], GeibingerMM21[136], HillTV21[175], BenderWS21[47], HubnerGSV21[184], GeibingerMM19[135], abs-1902-09244[160], abs-1911-04766[134], KameugneFGOQ18[192], LaborieRSV18[222], BofillCSV17[57], KreterSS17[217], MossigeGSMC17[269], Pralet17[310], YoungFS17[403], SchuttS16[333], SzerediS16[351], KreterSS15[216], VilimLS15[385], HeinzSB13[168], GuSS13[156], cpaior-SchuttFS13[329], LombardiM12[245], SchuttCSW12[328], SchuttFSW11[332], TrojetHL11[367], BertholdHLMS10[52], LombardiM10[244], SchuttW10[334], LombardiM09[243], SchuttFSW09[331], DoomsH08[102], LiessM08[232], ElkhyariGJ02a[108], BaptisteP00[29], BaptisteP97[28]	Caballero23[71], KameugneFND23[193], TardivoDFMP23[354], KovacsTKSG21[215], BaptisteB18[26], FahimiOQ18[113], Tesch18[360], GayHLS15[128], LombardiBM15[241], NattafAL15[276], KameugneFSN14[195], SchuttFS13[330], HeinzS11[167], KameugneFSN11[194], KeriK07[199], KovacsV06[214], ElkhyariGJ02[107], ArtiguesR00[17], HeipckeCCS00[171]	Bit-Monnot23[55], GeitzGSSW22[137], HanenKP21[159], ZhangYW21[411], AstrandJZ20[22], Mercier-AubinGQ20[263], WikarekS19[395], OuelletQ18[290], BonfiettiZLM16[64], Tesch16[359], SialaAH15[340], cpaior-GayHS15[130], DerrienPZ14[98], BonfiettiLM14[63], KoschB14[208], LetortCB13[229], OuelletQ13[289], BonfiettiLBM12[62], BonfiettiLBM11[61], GrimesH11[150], LahimerLH11[225], LombardiBMB11[242], Vilim11[382], AkkerDH07[370], PoderBS04[304], HookerY02[182]
Classification	RCPSPDC	GuSS13[156], SchuttCSW12[328]		CampeauG22[72], HubnerGSV21[184], SchuttFS13[330]
Classification	Resource-constrained Project Scheduling Problem with Discounted Cashflow			
Classification	SBSFMMAL	OzturkTHO13[293]		
Classification	SCC	KimCMLLP23[202], WolinskiKG04[399]	EvenSH15[111], EvenSH15a[112]	PohlAK22[305], SchausHMCMD11[326]
Classification	SMSDP			
Classification	Steel-making and continuous casting			
Classification	TCSP	BelhadjiI98[46]		
Classification	TMS	PopovicCGNC22[307]		CappartS17[73], SchuttFSW11[332]

Table 9: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
Classification	Temporal Constraint Satisfaction Problem		Belhadji198[46]	
Classification	parallel machine	PrataAN23[312], IsikYA23[186], abs-2305-19888[170], HeinzNVH22[169], OujanaAYB22[292], WinterMMW22[396], ZhangJZL22[410], PandeyS21a[294], GodetLHS20[143], MengZRZL20[262], NattafM20[278], MalapertN19[254], GedikKEK18[132], ArbaouiY18[12], EdisO11[105]	SacramentoSP20[322], BogaerdtW19[371], Novas19[284], ParkUJR19[297], BenediktSMVH18[49], ZhouGL15[416], KovacsB11[210], AkkerDH07[370]	JuvinHHL23[188], KimCMLLP23[202], LacknerMMWW23[224], Mehdizadeh-Somarin23[260], ArmstrongGOS22[14], HanenKP21[159], FanXG21[115], AbohashimaEG21[2], LacknerMMWW21[223], AstrandJZ20[22], QinDCS20[315], BaptisteB18[26], LaborieRSV18[222], KletzanderM17[204], KreterSS17[217], FontaineMH16[117], BurtLPS15[70], KreterSS15[216], NovasH14[287], LombardiM12[245], LahimerLH11[225], ArtiouchineB05[18], Sadykov04[323]
Classification	psplib	TardivoDFMP23[354], OuelletQ18[290], LetortCB15[230], cpaior-GayHS15[130], DerrienP14[97], KameugneFSN14[195], HeinzSB13[168], cpaior-SchuttFS13[329], SchuttFSW11[332], BertholdHLMs10[52], SchuttFSW09[331]	KameugneFND23[193], BoudreaultSLQ22[67], HillTV21[175], FahimiOQ18[113], BaptisteB18[26], Tesch18[360], SzerediS16[351], Tesch16[359], GayHLS15[128], LombardiBM15[241], VilimLS15[385], BonfiettiLM14[63], LetortCB13[229], LetortBC12[228], HeinzS11[167], Vilim11[382], SchuttW10[334]	LaborieRSV18[222], BofillCSV17[57], Pralet17[310], YoungFS17[403], OuelletQ13[289], LombardiM12[245], KameugneFSN11[194], LiessM08[232], FortinZDF05[118], ElkhyariGJ02a[108]
Classification	single machine	PrataAN23[312], LacknerMMWW23[224], BenediktMH20[48], BogaerdtW19[371], KovacsB11[210], ThiruvadyBME09[361]	HillTV21[175], KoehlerBFFHPSSS21[205], LacknerMMWW21[223], PandeyS21a[294], NattafM20[278], BenediktSMVH18[49], Tesch18[360], KoschB14[208], BillautHL12[54], KovacsK11[212], AkkerDH07[370], Sadykov04[323], OddiPCC03[288], SchildW00[327]	abs-2402-00459[279], IsikYA23[186], Mehdizadeh-Somarin23[260], GeitzGSSW22[137], AbreuN22[89], LiFJZL22[231], PohlAK22[305], ZhangJZL22[410], abs-2211-14492[348], FanXG21[115], KovacsTKSG21[215], QinWSLS21[314], GodetLHS20[143], TangB20[352], MalapertN19[254], ParkUJR19[297], Tom19[363], GedikKEK18[132], ArbaouiY18[12], AstrandJZ18[21], MossigeGSMC17[269], ZarandiKS16[407], DejemeppeCS15[92], BurtLPS15[70], MelgarejoLS15[6], HoundjiSWD14[183], NovasH14[287], HeinzKB13[165], HeinzSB13[168], GuSS13[156], HeinzB12[164], KovacsB08[209], KovacsV06[214], ArtiouchineB05[18], ChuX05[79], KovacsV04[213], BeldiceanuC02[42], HeipckeCCS00[171], SakkoutW00[325], Darby-DowmanLMZ97[86], BeckDF97[37]
Constraints	alldifferent	JuvinHHL23[188], KoehlerBFFHPSSS21[205], Simonis07[344]	GodetLHS20[143], BessiereHMQW14[53], KelarevaTK13[197]	WangB23[391], AstrandJZ20[22], WangB20[390], FahimiOQ18[113], MelgarejoLS15[6], AlesioNBG14[99], ClercqPBJ11[81], HermenierDL11[174], HachemiGR11[158], TrojetHL11[367], LopesCSM10[246]
Constraints	alternative constraint	LaborieRSV18[222]	abs-2305-19888[170], MurinR19[273]	LacknerMMWW23[224], HeinzNVH22[169], WinterMMW22[396], ZhangJZL22[410], ArmstrongGOS21[13], HillTV21[175], HubnerGSV21[184], PandeyS21a[294], VlkHT21[387], MengZRZL20[262], SacramentoSP20[322], Escobet-PQRA19[110], GeibingerMM19[135], GalleguillosKSB19[124], MalapertN19[254], abs-1911-04766[134], ArbaouiY18[12], Laborie18a[221], NishikawaSTT18[280], NishikawaSTT18a[281], CappartS17[73], NovaraNH16[283], PraletLJ15[311], BartoliniB-BLM14[35], SchuttFS13[330], HeinzB12[164], Laborie09[220]
Constraints	alwaysIn	PopovicCGNC22[307], SerraNM12[335]	AalianPG23[1], TangB20[352], MalapertN19[254], LaborieRSV18[222], GoelSHFS15[144]	CampeauG22[72], KreterSS17[217]
Constraints	bin-packing	TangB20[352], LetortCB15[230], LetortCB13[229], HeinzSSW12[166], LetortBC12[228], SchausHMCMD11[326]	FrimodigS19[121], BaptisteB18[26], GarganiR07[125], SakkoutW00[325], SchildW00[327]	abs-2402-00459[279], AkramNHRSA23[7], LacknerMMWW23[224], abs-2211-14492[348], ArmstrongGOS21[13], GodetLHS20[143], Madi-WambaLOBM17[252], Doula-biRP14[103], KoschB14[208], LimtanyakulS12[237], EdisO11[105], HermenierDL11[174], BeldiceanuCDP11[43], HentenryckM08[173], KovacsB08[209], DavenportKRSH07[88], Simonis07[344]

Table 9: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
Constraints	circuit	MontemanniD23a[267], KlankeBYE21[203], Mercier-AubinGQ20[263], GruianK98[155], Wallace96[388]	WessenCS20[394], KrogtLPHJ07[372], KuchcinskiW03[218], DincbasSH90[101]	PrataAN23[312], IsikYA23[186], MontemanniD23[268], MullerMKP22[272], ArmstrongGOS21[13], KoehlerBFFH- PSSS21[205], GroleazNS20[154], WallaceY20[389], Esco- betPQPRA19[110], Hooker17[181], HechingH16[163], Mel- garejoLS15[6], MurphyMB15[274], HoundjiSWD14[183], CireCH13[80], cpaior-SchuttFS13[329], LombardiM12[245], SchuttFSW11[332], CobanH10[82], Hooker06[180], QuSN06[316], Hooker05[178], cp-Hooker05[179], Hooker04[177], Mart- inPY01[258], KorbaaYG99[206], RodosekW98[320], Simo- nis95[343]

Table 9: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
Constraints	cumulative	AalianPG23[1], IsikYA23[186], KameugneFND23[193], LacknerMMWW23[224], PovedaAA23[309], TardivoDFMP23[354], BoudreaultSLQ22[67], FetgoD22[116], OuelletQ22[291], PohlAK22[305], ZhangJZL22[410], HanenKP21[159], KovacsTKSG21[215], LacknerMMWW21[223], GroleazNS20[154], GodetLHS20[143], Mercier-AubinGQ20[263], SacramentoSP20[322], WallaceY20[389], GeibingerMM19[135], MalapertN19[254], Novas19[284], YangSS19[402], abs-1911-04766[134], FahimiOQ18[113], BaptisteB18[26], KameugneFGOQ18[192], LaborieRSV18[222], OuelletQ18[290], Tesch18[360], KreterSS17[217], Madi-WambaLOBM17[252], MossigeGSMC17[269], NattafAL17[277], Pralet17[310], YoungFS17[403], NovaraNH16[283], SchuttS16[333], SzerediS16[351], Tesch16[359], EvenSH15[111], GoelSHFS15[144], EvenSH15a[112], GayHS15[129], Kameugne15[191], KreterSS15[216], LetortCB15[230], MurphyMB15[274], NattafAL15[276], SimoninAHL15[342], VilimLS15[385], cpaior-GayHS15[130], DerrienPZ14[98], DerrienP14[97], DejemepeD14[93], GaySS14[131], KameugneFSN14[195], HeinzKB13[165], HeinzSB13[168], LetortCB13[229], OuelletQ13[289], SchuttFS13[330], cpaior-SchuttFS13[329], BonfiettiLBM12[62], HeinzB12[164], LetortBC12[228], LombardiM12[245], SchuttCSW12[328], SerraNM12[335], ClercqPBJ11[81], BeldiceanuCDP11[43], HeinzS11[167], KameugneFSN11[194], KelbelH11[198], SchuttFSW11[332], TrojetHL11[367], Vilim11[382], BertholdHLSM10[52], LombardiM10[244], SchuttW10[334], SchuttFSW09[331], Vilim09[380], abs-0907-0939[302], cpaior-Vilim09[381], BeldiceanuCP08[44], KovacsB08[209], BeldiceanuP07[45], Simonis07[344], Hooker06[180], KhemmoudjPB06[201], Hooker05[178], Geske05[139], WolfS05[398], cp-Hooker05[179], Hooker04[177], HentenryckM04[172], PoderBS04[304], BeldiceanuC02[42], HookerY02[182], ArtiguesR00[17], BaptisteP00[29], PapaB98[296], BaptisteP97[28], Goltz95[147], SimonisC95[345]	PrataAN23[312], abs-2402-00459[279], EfthymiouY23[106], PerezGSL23[299], abs-2312-13682[300], CampeauG22[72], GeitzGSSW22[137], AbreuN22[89], HillTV21[175], HubnerGSV21[184], KlankeBYE21[203], NattafM20[278], GalleguillosKSB19[124], GedikKEK18[132], BoothNB16[65], BonfiettiZLM16[64], LimHTB16[234], BurtLPS15[70], GayHLS15[128], GuSS13[156], LimtanyakulS12[237], BartakS11[34], KovacsB11[210], GrimesH10[149], AronssonBK09[15], AkkerDH07[370], Limtanyakul07[236], BeniniBGM06[50], KovacsV06[214], ChuX05[79], VilimBC05[384], KovacsV04[213], VilimBC04[383], Bartak02a[32], Caseau97[75]	Bit-Monnot23[55], GurPAE23[157], JuvinHHL23[188], Tas- selGS23[355], YuraszeckMCCR23[406], abs-2305-19888[170], abs-2306-05747[356], HeinzNVH22[169], Armstrong- GOS22[14], PopovicCGNC22[307], SubulanC22[347], abs- 2211-14492[348], ArmstrongGOS21[13], GeibingerMM21[136], KoehlerBFFHPSSS21[205], PandeyS21a[294], FrimodigS19[121], WikarekS19[395], abs-1902-09244[160], DemirovicS18[95], AstrandJZ18[21], ArbaouiY18[12], Laborie18a[221], ZhangW18[412], GoldwaserS17[146], BofilCSV17[57], Cap- partS17[73], CauwelaertDMS16[76], GilesH16[140], Madi- WambaB16[251], DejemepeCS15[92], PesantRR15[301], SialaAH15[340], WangMD15[392], ZhouGL15[416], Bon- fiettiLM14[63], BartoliniBBLM14[35], KoschB14[208], CireCH13[80], OzturkTHO13[293], SimoninAHL12[341], BonfiettiLBM11[61], HermenierDL11[174], GrimesH11[150], ChapadosJR11[78], EdisO11[105], LombardiBMB11[242], Laborie09[220], MonetteDH09[266], ThiruvadyBME09[361], LiessM08[232], MouraSCL08a[270], RossiTHP07[321], Ar- tiouchineB05[18], Vilim05[379], Vilim04[378], Vilim03[377], Wolf03[397], ElkhyariGJ02a[108], ElkhyariGJ02[107], Bar- tak02[33], Timpe02[362], Vilim02[376], HeipckeCCS00[171], GruianK98[155], BeckDF97[37], Zhou97[415], Simonis95[343]

Table 9: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
Constraints	cycle	AalianPG23[1], AbohashimaEG21[2], Astrand0F21[20], AntuoriHHEN21[11], AstrandJZ20[22], WallaceY20[389], ParkUJR19[297], AstrandJZ18[21], BessiereHMQW14[53], LombardiBMB11[242], SunLYL10[349], RossiTHP07[321], WolinskiKG04[399], KuchcinskiW03[218], Kumar03[219], ArtiguesR00[17], SchildW00[327], KorbaaYG99[206], GruianK98[155], RodosekW98[320], ErtlK91[109]	EfthymiouY23[106], CampeauG22[72], HillTV21[175], HubnerGSV21[184], KoehlerBFFHPSSS21[205], GroleazNS20[154], MossigeGSMC17[269], BurtLPS15[70], PraletLJ15[311], SimoninAHL15[342], BonfiettiLBM12[62], SimoninAHL12[341], HachemiGR11[158], BonfiettiLBM11[61], KovacsB11[210], Vilim11[382], KovacsB08[209], Simonis07[344], BeniniBGM06[50], KhemmoudjPB06[201], LiuJ06[240], OddiPCC03[288], Wallace96[388]	AkramNHRSA23[7], Bit-Monnot23[55], AbreuN22[89], ArmstrongGOS21[13], FanXG21[115], Mercier-AubinGQ20[263], QinDCS20[315], TangB20[352], EscobetPQPRA19[110], Novas19[284], abs-1902-09244[160], LaborieRSV18[222], KreterSS17[217], Pralet17[310], BonfiettiZLM16[64], DejemeppeCS15[92], LetortCB15[230], MurphyMB15[274], GaySS14[131], OzturkTHO13[293], BillautHL12[54], HeinzB12[164], LombardiM12[245], NovasH12[286], SeranNM12[335], ChapadosJR11[78], HermenierDL11[174], KovacsK11[212], TrojetHL11[367], GrimesH10[149], LopesCSM10[246], MakMS10[253], MonetteDH09[266], Vilim09[380], cpaioir-Vilim09[381], MouraSCL08[271], KeriK07[199], FrankK05[119], VilimBC05[384], HentenryckM04[172], Muscettola02[275], Timpe02[362], VanczaM01[374], VerfaillieL01[375], BensanaLV99[51], BeckDF97[37], Simonis95[343]
Constraints	diffn	ArmstrongGOS21[13], Simonis07[344]	BeldiceanuCDP11[43]	KreterSS17[217], KreterSS15[216], TrojetHL11[367], Timpe02[362], GruianK98[155], Simonis95[343], SimonisC95[345], abs-2402-00459[279], EfthymiouY23[106], KameugneFND23[193], LacknerMMWW23[224], PovedaAA23[309], TardivoDFMP23[354], TasselGS23[355], abs-2306-05747[356], MullerMKP22[272], OuelletQ22[291], OujanaAYB22[292], abs-2211-14492[348], KlankeBYE21[203], ZhangYW21[411], Mercier-AubinGQ20[263], WallaceY20[389], ColT19[83], WikarekS19[395], abs-1911-04766[134], AstrandJZ18[21], OuelletQ18[290], GoldwaserS17[146], YoungFS17[403], GilesH16[140], BoothNB16[65], BonfiettiZLM16[64], CauwelaertDMS16[76], NovaraNH16[283], Tesch16[359], DejemeppeCS15[92], GayHLS15[128], MurphyMB15[274], Siala15[339], GrimesIOS14[152], KoschB14[208], HeinzSB13[168], LetortCB13[229], OuelletQ13[289], IfrimOS12[185], LimtanyakulS12[237], SimoninAHL12[341], HermenierDL11[174], KameugneFSN11[194], KovacsB11[210], LahimerLH11[225], TrojetHL11[367], Vilim11[382], BertholdHLMS10[52], CobanH10[82], LombardiM10[244], GarridoAO09[126], Laborie09[220], MonetteDH09[266], SchuttFSW09[331], KovacsB08[209], WatsonB08[393], HoeveGSL07[373], DavenportKRSH07[88], BeldiceanuP07[45], Simonis07[344], Hooker06[180], LiuJ06[240], ChuX05[79], Hooker05[178], Vilim05[379], VilimBC05[384], cp-Hooker05[179], Hooker04[177], KovacsV04[213], Sadykov04[323], Vilim04[378], VilimBC04[383], DannaP03[85], Vilim03[377], ElkhyariGJ02[107], Bartak02a[32], Bartak02[33], HookerY02[182], Timpe02[362], Vilim02[376], VanczaM01[374], HeipckeCCS00[171], Colombani96[84], Wallace96[388], Goltz95[147], Puget95[313]
Constraints	disjunctive	Bit-Monnot23[55], JuvinHHL23[188], KoehlerBFFHPSSS21[205], GodetLHS20[143], FahimiOQ18[113], LaborieRSV18[222], MossigeGSMC17[269], NattafAL17[277], Pralet17[310], FontaineMH16[117], GoelSHFS15[144], MelgarejoLS15[6], SialaAH15[340], cpaioir-GayHS15[130], OzturkTHO13[293], SchuttFS13[330], cpaioir-SchuttFS13[329], LombardiM12[245], BeldiceanuCDP11[43], SchuttFSW11[332], GrimesH10[149], LopesCSM10[246], SchuttW10[334], GrimesHM09[151], BeldiceanuCP08[44], HentenryckM04[172], ArtiguesBF04[16], Wolf03[397], ElkhyariGJ02a[108], BaptisteP00[29], SakkoutW00[325], BelhadjiI98[46], PapaB98[296], RodosekW98[320], BaptisteP97[28], Zhou97[415], Zhou96[414], DincbasSH90[101]	BoudreaultSLQ22[67], GeibingerMM21[136], Astrand0F21[20], AstrandJZ20[22], SacramentoSP20[322], YangSS19[402], DemirovicS18[95], KameugneFGOQ18[192], GayHS15[129], EvenSH15a[112], EvenSH15[111], SimoninAHL15[342], VilimLS15[385], GaySS14[131], KameugneFSN14[195], GrimesH11[150], HeinzS11[167], KelbelH11[198], LiessM08[232], MouraSCL08[271], MouraSCL08a[270], MonetteDD07[265], ArtiouchineB05[18], ArtiguesR00[17], SchildW00[327], Darby-DowmanLMZ97[86]	KreterSS17[217], KreterSS15[216], TrojetHL11[367], Timpe02[362], GruianK98[155], Simonis95[343], SimonisC95[345], abs-2402-00459[279], EfthymiouY23[106], KameugneFND23[193], LacknerMMWW23[224], PovedaAA23[309], TardivoDFMP23[354], TasselGS23[355], abs-2306-05747[356], MullerMKP22[272], OuelletQ22[291], OujanaAYB22[292], abs-2211-14492[348], KlankeBYE21[203], ZhangYW21[411], Mercier-AubinGQ20[263], WallaceY20[389], ColT19[83], WikarekS19[395], abs-1911-04766[134], AstrandJZ18[21], OuelletQ18[290], GoldwaserS17[146], YoungFS17[403], GilesH16[140], BoothNB16[65], BonfiettiZLM16[64], CauwelaertDMS16[76], NovaraNH16[283], Tesch16[359], DejemeppeCS15[92], GayHLS15[128], MurphyMB15[274], Siala15[339], GrimesIOS14[152], KoschB14[208], HeinzSB13[168], LetortCB13[229], OuelletQ13[289], IfrimOS12[185], LimtanyakulS12[237], SimoninAHL12[341], HermenierDL11[174], KameugneFSN11[194], KovacsB11[210], LahimerLH11[225], TrojetHL11[367], Vilim11[382], BertholdHLMS10[52], CobanH10[82], LombardiM10[244], GarridoAO09[126], Laborie09[220], MonetteDH09[266], SchuttFSW09[331], KovacsB08[209], WatsonB08[393], HoeveGSL07[373], DavenportKRSH07[88], BeldiceanuP07[45], Simonis07[344], Hooker06[180], LiuJ06[240], ChuX05[79], Hooker05[178], Vilim05[379], VilimBC05[384], cp-Hooker05[179], Hooker04[177], KovacsV04[213], Sadykov04[323], Vilim04[378], VilimBC04[383], DannaP03[85], Vilim03[377], ElkhyariGJ02[107], Bartak02a[32], Bartak02[33], HookerY02[182], Timpe02[362], Vilim02[376], VanczaM01[374], HeipckeCCS00[171], Colombani96[84], Wallace96[388], Goltz95[147], Puget95[313]
Constraints	endBeforeStart	SubulanC22[347], QinDCS20[315]	IsikYA23[186], PandeyS21a[294], LunardiBLRV20[249], MengZRZL20[262], LaborieRSV18[222], NovaraNH16[283], Laborie09[220]	AalianPG23[1], JuvinHHL23[188], JuvinHL23[189], LacknerMMWW23[224], YuraszekMCCR23[406], CampeauG22[72], ZhangJZL22[410], HubnerGSV21[184], LacknerMMWW21[223], ZhangYW21[411], BenediktMH20[48], SacramentoSP20[322], TangB20[352], GeibingerMM19[135], MurinR19[273], Novas19[284], ParkUJR19[297], abs-1902-09244[160], abs-1911-04766[134], NishikawaSTT18[280], NishikawaSTT18a[281]
Constraints	geost	BeldiceanuCDP11[43]	LetortBC12[228]	BeldiceanuCP08[44]

Table 9: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
Constraints	noOverlap	IsikYA23[186], JuvinHHL23[188], abs-2305-19888[170], HeinzNVH22[169], PopovicCGNC22[307], VlkHT21[387], LunardiBLRV20[249], QinDCS20[315], GedikKEK18[132], MelgarejoLS15[6]	KimCMLLP23[202], LacknerMMWW23[224], TasselGS23[355], abs-2306-05747[356], AbreuN22[89], PohlAK22[305], BenderWS21[47], KlankeBYE21[203], BenediktMH20[48], MengZRZL20[262], SacramentoSP20[322], EscobetPQPRA19[110], MalapertN19[254], MurinR19[273], Novas19[284], abs-1911-04766[134], ArbaouiY18[12], LaborieRSV18[222], ZhangW18[412], BoothNB16[65], NovaraNH16[283], GoelSHFS15[144], PraletLJ15[311], EdisO11[105]	AalianPG23[1], JuvinHL23[189], Squillacipr23[346], YuraszeckMC23[405], ArmstrongGOS22[14], CampeauG22[72], OujanaAYB22[292], WinterMMW22[396], ZhangJZL22[410], LacknerMMWW21[223], GroleazNS20[154], NattafM20[278], GeibingerMM19[135], BogaerdtW19[371], ColT19[83], ParkUJR19[297], BenediktSMVH18[49], CappartS17[73], HechingH16[163], VilimLS15[385], WangMD15[392], Laborie09[220]
Constraints	regular expression		FrimodigS19[121]	
Constraints	span constraint		CappartS17[73], SchuttFS13[330], Darby-DowmanLMZ97[86]	OujanaAYB22[292], TangB20[352], LaborieRSV18[222], SimoninAHL15[342], SimoninAHL12[341], SchuttFSW11[332]
Constraints	table constraint	PapaB98[296]		PerezGSL23[299], abs-2312-13682[300], ArmstrongGOS21[13], GayHS15[129], MelgarejoLS15[6], PesantRR15[301], LimtanyakulS12[237], HermerierDL11[174], LopesCSM10[246], MouraSCL08[271], ElkhyariGJ02[107]
ProgLanguages	C	KoehlerBFFHPSSS21[205]		HubnerGSV21[184], BogaerdtW19[371], LaborieRSV18[222], Laborie09[220], GarridoOS08[127]
ProgLanguages	C++			JuvinHHL23[188], TardivoDFMP23[354], PopovicCGNC22[307], AntuoriHHEN21[11], QinWSLS21[314], AstrandJZ20[22], Mercier-AubinGQ20[263], abs-1902-01193[8], ArbaouiY18[12], LaborieRSV18[222], NattafAL17[277], BoothNB16[65], Tesch16[359], NattafAL15[276], KovacsB11[210], KovacsK11[212], LahimerLH11[225], LombardiBMB11[242], LopesCSM10[246], ThiruvadyBME09[361], LiessM08[232], MouraSCL08[271], MouraSCL08a[270], WatsonB08[393], GarganiR07[125], DavenportKRSH07[88], KeriK07[199], KhemmoudjPB06[201], Vilim05[379], ArtiguesBF04[16], Timpe02[362], BaptisteP00[29], PapaB98[296], BaptisteP97[28]
ProgLanguages	Java		KuchcinskiW03[218]	KameugneFND23[193], TasselGS23[355], abs-2306-05747[356], FetgoD22[116], MullerMKP22[272], OuelletQ22[291], AntuoriHHEN21[11], FanXG21[115], ArmstrongGOS21[13], BarzegaranZP20[36], SacramentoSP20[322], TangB20[352], FrohnerTR19[122], ColT19[83], GeibingerMM19[135], Tom19[363], abs-1911-04766[134], KameugneFGQ18[192], LaborieRSV18[222], OuelletQ18[290], CauwelaertDMS16[76], Madi-WambaB16[251], EvenSH15a[112], LetortCB15[230], MurphyMB15[274], cpaioir-GayHS15[130], DerrienP14[97], KoschB14[208], LetortCB13[229], LetortBC12[228], RendlPHPR12[318], ClercqPB11[81], ZibraniR11[418], SchuttW10[334], GarridoAO09[126], GrimesHM09[151], abs-0907-0939[302], GarridoOS08[127], WolinskiKG04[399], OddiPCC03[288], Wolf03[397]
ProgLanguages	Julia			
ProgLanguages	Lisp			Wallace96[388]
ProgLanguages	Prolog	ArmstrongGOS21[13], FalaschiGMP97[114], Zhou97[415], Wallace96[388], Simonis95[343], Touraivane95[366], DincbasSH90[101]	Madi-WambaLOBM17[252], MossigeGSMC17[269], MartinPY01[258], RodosekW98[320], Zhou96[414], SimonisC95[345]	ArmstrongGOS22[14], PopovicCGNC22[307], YangSS19[402], abs-1902-01193[8], LetortCB15[230], LetortCB13[229], LetortBC12[228], BeldiceanuCDP11[43], TrojetHL11[367], AronssonBK09[15], BeldiceanuCP08[44], KrogtLPHJ07[372], Simonis07[344], QuSN06[316], Geske05[139], PoderBS04[304], Bartak02[33], BeldiceanuC02[42], KorbaaYG99[206], Darby-DowmanLMZ97[86], Goltz95[147], ErtlK91[109]

Table 9: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
ProgLanguages	Python	KoehlerBFFHPSSS21[205]	AbreuN22[89], abs-2211-14492[348], LaborieRSV18[222]	AkramNHRSA23[7], EfthymiouY23[106], KimCMLLP23[202], MehdiZadeh-Somarin23[260], MontemanniD23[268], MontemanniD23a[267], PovedaAA23[309], SquillaciPR23[346], CampeauG22[72], FetgoD22[116], MullerMKP22[272], PohlAK22[305], FanXG21[115], BenderWS21[47], AbomashimaEG21[2], HananKP21[159], KlankeBYE21[203], Lunardi-BLRV20[249], Mercier-AubinGQ20[263], GalleguillosKSB19[124], FrimodigS19[121], FrohnerTR19[122], BehrensLM19[40], abs-1901-07914[41], abs-1902-01193[8], He0GLW18[161], GoldwaserS17[146], LiuCGM17[239]
CPSystems	CHIP	TrojetHL11[367], ZeballosQH10[409], Simonis07[344], GruianK98[155], Wallace96[388], Goltz95[147], Simonis95[343], SimonisC95[345], DincbasSH90[101]	ArmstrongGOS21[13], YangSS19[402], LaborieRSV18[222], BeniniBGM06[50], Geske05[139], PoderBS04[304], WolinskiKG04[399], Timpe02[362], RodosekW98[320], Zhou97[415]	PrataAN23[312], KameugneFND23[193], MontemanniD23[268], TardivoDFMP23[354], BoudreaultSLQ22[67], FetgoD22[116], AbreuN22[89], OuelletQ22[291], Popovic-CGNC22[307], KlankeBYE21[203], QinWSLS21[314], GroleazNS20[154], GodetLHS20[143], FrimodigS19[121], abs-1902-01193[8], BaptisteB18[26], KameugneFGOQ18[192], OuelletQ18[290], PourDERB18[308], KreterSS17[217], MossigeGSMC17[269], Pralet17[310], BonfiettiZLM16[64], FontaineMH16[117], HechingH16[163], Madi-WambaB16[251], GayHS15[129], KreterSS15[216], LetortCB15[230], MurphyMB15[274], SimoninAHL15[342], ZhouGL15[416], cpaior-GayHS15[130], DerrienPZ14[98], DerrienP14[97], GrimesIOS14[152], KameugneFSN14[195], HeinzSB13[168], OuelletQ13[289], OzturkTHO13[293], cpaior-SchuttFS13[329], HeinzB12[164], LetortBC12[228], SchuttCSW12[328], SimoninAHL12[341], HeinzS11[167], BeldiceanuCDP11[43], ClercqPBJ11[81], SchuttFSW11[332], SchuttW10[334], AronssonBK09[15], LombardiM09[243], SchuttFSW09[331], abs-0907-0939[302], BeldiceanuCP08[44], DavenportKRSH07[88], KhemmoudjPB06[201], WolfS05[398], KuchcinskiW03[218], BeldiceanuC02[42], BaptisteP00[29], SakkoutW00[325], KorbaaYG99[206], PapaB98[296], BaptisteP97[28], Colombani96[84], JuvinHL23[189], PovedaAA23[309], OujanaAYB22[292], GeibingerMM21[136], TangB20[352], Laborie18a[221], Pralet17[310], VilimLS15[385], GarridoAO09[126], Vilim09[380], GarridoOS08[127]
CPSystems	CPO	Bit-Monnot23[55], JuvinHHL23[188], LacknerMMWW23[224], WinterMMW22[396], ArmstrongGOS21[13], LacknerMMWW21[223], GroleazNS20[154], NattafM20[278], SacramentoSP20[322], GeibingerMM19[135], ColT19[83], MalapertN19[254], LaborieRSV18[222], KreterSS17[217], GoelSHFS15[144], PraletLJ15[311], Laborie09[220]	AalianPG23[1], abs-1911-04766[134]	
CPSystems	Choco Solver	TasselGS23[355], abs-2306-05747[356], LetortCB15[230], LetortCB13[229], OuelletQ13[289], LetortBC12[228], GarridoAO09[126], GrimesHM09[151], abs-0907-0939[302], GarridoOS08[127]	KameugneFND23[193], FetgoD22[116], MullerMKP22[272], AntuoriHHEN21[11], LiuLH19[238], FahimiOQ18[113], KameugneFGOQ18[192], LaborieRSV18[222], GayHS15[129], DerrienP14[97], DerrienPZ14[98], KoschB14[208], ClercqPBJ11[81], HermenierDL11[174]	OuelletQ22[291], GodetLHS20[143], YangSS19[402], OuelletQ18[290], Madi-WambaB16[251], EvenSH15[111], EvenSH15a[112], MurphyMB15[274], BessiereHMQW14[53], RossiTHP07[321]
CPSystems	Chuffed	LacknerMMWW23[224], PovedaAA23[309], BoudreaultSLQ22[67], MullerMKP22[272], GeibingerMM21[136], ArmstrongGOS21[13], KoehlerBFFHPSSS21[205], LacknerMMWW21[223], GodetLHS20[143], WallaceY20[389], abs-1911-04766[134], KreterSS17[217], YoungFS17[403], SzerediS16[351], KreterSS15[216]		SchuttS16[333]

Table 9: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
CPSystems	Claire	BaptisteP00[29]	BaptisteP97[28]	HananKP21[159], PapaB98[296]
CPSystems	Cplex	MullerMKP22[272], SubulanC22[347], WinterMMW22[396], GeibingerKKMMW21[133], HubnerGSV21[184], KoehlerBFFHPSSS21[205], PandeyS21a[294], LunardiBLRV20[249], MengZRZL20[262], QinDCS20[315], SacramentoSP20[322], GeibingerMM19[135], MurinR19[273], abs-1911-04766[134], LaborieRSV18[222], NishikawaSTT18[280], NishikawaSTT18a[281], KreterSS17[217], NovaraNH16[283], KoschB14[208], HeinzSB13[168], CireCH13[80], MasonO1[259], Darby-DowmanLMZ97[86]	IsikYA23[186], LacknerMMWW23[224], Mehdizadeh-Somarin23[260], CampeauG22[72], ArmstrongGOS21[13], KovacsTKSG21[215], LacknerMMWW21[223], QinWSLS21[314], NattafM20[278], WallaceY20[389], MalapertN19[254], Novas19[284], abs-1902-09244[160], HechingH16[163], BofillGSV15[59], NattafAL15[276], PraletLJ15[311], VilimLS15[385], BofillEGPSV14[58], GrimesIOS14[152], HeinzKB13[165], BillautHL12[54], HeinzB12[164], LimtanyakulS12[237], SerraNM12[335], GrimesH11[150], EdisO11[105], KelbelH11[198], AronssonBK09[15], Hooker05[178], Hooker04[177], DannaP03[85], SakkoutW00[325], RodosekW98[320]	GurPAE23[157], AalianPG23[1], JuvinHL23[189], PovedaAA23[309], SquillaciPR23[346], YuraszeckMCCR23[406], AbreuN22[89], PohlAK22[305], PopovicCGNC22[307], abs-2211-14492[348], GeibingerMM21[136], FanXG21[115], KlankeBYE21[203], VlkHT21[387], ZhangYW21[411], TangB20[352], FrimodigS19[121], EscobetPQPRA19[110], BogaerdTW19[371], GedikKEK18[132], ArbaouiY18[12], PourDERB18[308], ZhangW18[412], NattafAL17[277], Pralet17[310], BoothNB16[65], GilesH16[140], SzerediS16[351], GoelSHFS15[144], BurtLPS15[70], KreterSS15[216], MelgarejoLS15[6], WangMD15[392], DoulabiRP14[103], AlesioNBG14[99], KelarevaTK13[197], OzturkTHO13[293], HeinzSSW12[166], HeinzS11[167], HachemiGR11[158], KovacsK11[212], TopalogluO11[364], ZibranR11[418], ZibranR11a[419], CobanH10[82], Davenport10[87], BertholdHLMS10[52], SunLYL10[349], ZeballosQH10[409], AkkerDH07[370], DavenportKRSH07[88], HoeveGSL07[373], BeniniBGM06[50], Hooker06[180], KhayatLR06[200], cp-Hooker05[179], Timpe02[362], VerfaillieL01[375], BensanaLV99[51]
CPSystems	ECLiPSe	RodosekW98[320]	SchuttFSW11[332], KamarainenS02[190], Darby-DowmanLMZ97[86], Wallace96[388]	FanXG21[115], WikarekS19[395], ZeballosQH10[409], SchuttFSW09[331], BeniniBGM06[50], ChuX05[79], QuirogaZH05[317], MartinPY01[258]
CPSystems	Gecode	TardivoDFMP23[354], AstrandJZ20[22], SzerediS16[351], GayHS15[129], ZhouGL15[416], KameugneFSN14[195]	MullerMKP22[272], GeibingerKKMMW21[133], AstrandOF21[20], AntuoriHHEN21[11], GeibingerMM19[135], FrohnerTR19[122], abs-1911-04766[134], LaborieRSV18[222], BurtLPS15[70], BofillEGPSV14[58], KameugneFSN11[194], KovacsK11[212], ThiruvadyBME09[361]	ArmstrongGOS21[13], MengZRZL20[262], WallaceY20[389], WessenCS20[394], FrimodigS19[121], YangSS19[402], AstrandJZ18[21], GoldwaserS17[146], PesantRR15[301], Monet-teDD07[265]
CPSystems	Gurobi	LacknerMMWW23[224], WangB23[391], WinterMMW22[396], GeibingerKKMMW21[133], KoehlerBFFHPSSS21[205], KovacsTKSG21[215], LacknerMMWW21[223], WallaceY20[389], WangB20[390], FrohnerTR19[122]	VlkHT21[387], GoldwaserS17[146], FontaineMH16[117]	KimCMLP23[202], MontemanniD23[268], abs-2305-19888[170], HeinzNVH22[169], PohlAK22[305], AbohashimaEG21[2], FanXG21[115], HubnerGSV21[184], KlankeBYE21[203], BenediktMH20[48], MengZRZL20[262], DemirovicS18[95], HeOGLW18[161], BenediktSMVH18[49], BurtLPS15[70], PesantRR15[301]
CPSystems	Ilog Scheduler	GrimesH11[150], ZeballosQH10[409]	LaborieRSV18[222], HeinzB12[164], LimtanyakulS12[237], NovasH12[286], GrimesHM09[151], WatsonB08[393], ZeballosH05[408]	Laborie18a[221], SchuttS16[333], NovasH14[287], HachemiGR11[158], KovacsB11[210], LahimerLH11[225], SchuttFSW11[332], LopesCSM10[246], NovasH10[285], cpaioir-Vilim09[381], KovacsB08[209], MouraSCL08[271], MouraSCL08a[270], HoeveGSL07[373], Simonis07[344], Hooker06[180], KovacsV06[214], ArtiouchineB05[18], Hooker05[178], QuirogaZH05[317], WuBB05[401], cp-Hooker05[179], Hooker04[177], ArtiguesBF04[16], KovacsV04[213], DannaP03[85], Bartak02a[32], BaptisteP00[29], Zhou97[415]

Table 9: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
CPSystems	Ilog Solver		GrimesH11[150], ZeballosQH10[409]	abs-1902-01193[8], LaborieRSV18[222], ZarandiKS16[407], PesantRR15[301], NovasH14[287], OzturkTHO13[293], BonfiettiLBM12[62], HeinzB12[164], NovasH12[286], BonfiettiLBM11[61], KelbelH11[198], KovacsB11[210], KovacsK11[212], TopalogluO11[364], LombardiM10[244], LopesCSM10[246], LombardiM09[243], KovacsB08[209], MouraSCL08[271], MouraSCL08a[270], BeniniBGM06[50], GomesHS06[148], QuirogaZH05[317], ZeballosH05[408], ArtiguesBF04[16], DannaP03[85], ValleMGT03[369], MartinPY01[258], SchildW00[327], BensanaLV99[51], KorbbaaYG99[206], PapaB98[296], Wallace96[388]
CPSystems	MiniZinc	LacknerMMWW23[224], TardivoDFMP23[354], BoudreaultSLQ22[67], MullerMKP22[272], ArmstrongGOS21[13], KoehlerBFFHPSSS21[205], LacknerMMWW21[223], Mercier-AubinGQ20[263], WallaceY20[389], FrohnerTR19[122], GeibingerMM19[135], ColT19[83], abs-1911-04766[134], LiuCGM17[239], YoungFS17[403], SzerediS16[351], BofillEGPSV14[58], KelarevaTK13[197]	PovedaAA23[309], KreterSS17[217], KreterSS15[216]	Bit-Monnot23[55], OuelletQ22[291], GeibingerKKMMW21[133], FrimodigS19[121], BehrensLM19[40], abs-1901-07914[41], DemirovicS18[95], FontaineMH16[117], SchuttS16[333], BurtLPS15[70], HeinzSB13[168], SchuttFS13[330]
CPSystems	Mistral	JuvinHHL23[188], GrimesHM09[151]	Bit-Monnot23[55], BillautHL12[54]	SialaAH15[340]
CPSystems	OPL	LacknerMMWW23[224], MullerMKP22[272], KoehlerBFFHPSSS21[205], LacknerMMWW21[223], PandeyS21a[294], QinDCS20[315], EscobetPQPRA19[110], Novas19[284], LaborieRSV18[222], NovaraNH16[283], AlesioNBG14[99], NovasH12[286], HachemiGR11[158], ZeballosQH10[409], Laborie09[220], KhayatLR06[200]	SubulanC22[347], Mercier-AubinGQ20[263], MurinR19[273], Laborie18a[221], EvenSH15a[112], LimBTBB15[235], WangMD15[392], NovasH14[287], OzturkTHO13[293], HeinzB12[164], SerraNM12[335], EdisO11[105], KelbelH11[198], TopalogluO11[364], ZibranR11a[419], NovasH10[285], GarganiR07[125], KrogtLPHJ07[372], Simonis07[344], Hooker06[180], QuirogaZH05[317], ZeballosH05[408], cp-Hooker05[179], VerfaillieL01[375], RodosekW98[320]	abs-2402-00459[279], EfthymiouY23[106], GurPAE23[157], IsikYA23[186], MontemanniD23[268], PerezGSL23[299], YuraszekMCCR23[406], abs-2312-13682[300], Armstrong-GOS22[14], GeitzGSSW22[137], BoudreaultSLQ22[67], LiFJZLL22[231], OujanaAYB22[292], HubnerGSV21[184], QinWLSL21[314], VlkHT21[387], MengZRZL20[262], WallaceY20[389], BogaerdtW19[371], Tom19[363], YangSS19[402], abs-1902-01193[8], abs-1902-09244[160], ZhangW18[412], CappartS17[73], LiuCGM17[239], HechingH16[163], LimHTB16[234], SchuttS16[333], Tesch16[359], EvenSH15[111], GoelSHFS15[144], HeinzKB13[165], CireCH13[80], BartakS11[34], GrimesH11[150], ChapadosJR11[78], ZibranR11[418], CobanH10[82], LopesCSM10[246], SunLYL10[349], GarridoAO09[126], BeldiceanuCP08[44], Limtanyakul07[236], RossiTHP07[321], Hooker05[178], DilkinaDH05[100], Hooker04[177], ElkhyariGJ02a[108], Mason01[259], GruianK98[155], Wallace96[388], Puget95[313], DincbasSH90[101]
CPSystems	OR-Tools	abs-2402-00459[279], LacknerMMWW23[224], MullerMKP22[272], abs-2211-14492[348], KoehlerBFFHPSSS21[205], KovacsTKSG21[215], LacknerMMWW21[223], ColT19[83], GayHS15[129]	EfthymiouY23[106], BoudreaultSLQ22[67], GeibingerKKMMW21[133], BarzegaranZP20[36], LiuCGM17[239]	Bit-Monnot23[55], AkramNHRSA23[7], KimCMLLP23[202], MontemanniD23[268], MontemanniD23a[267], Klanke-BYE21[203], GroleazNS20[154], MengZRZL20[262], GalleguillosKSB19[124], BehrensLM19[40], YangSS19[402], abs-1901-07914[41], PourDERB18[308], BonfiettiZLM16[64], ZhouGL15[416], LombardiM12[245]

Table 9: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
CPSystems	OZ	PrataAN23[312], IsikYA23[186], WikarekS19[395], TopalogluO11[364], NovasH10[285], VanczaM01[374], SchildW00[327]	GeitzGSSW22[137], AbreuN22[89], PohlAK22[305], SubulanC22[347], FanXG21[115], AstrandJZ20[22], GodetLHS20[143], WessenCS20[394], BehrensLM19[40], LiuLH19[238], Novas19[284], abs-1901-07914[41], HookerI7[181], GrimesH11[150], EdisO11[105], ZeballosQH10[409], LiessM08[232], BeniniBGM06[50], MaraveliasG04[257]	GurPAE23[157], Mehdizadeh-Somarin23[260], FetgoD22[116], CampeauG22[72], ArmstrongGOS22[14], LiFJZLL22[231], MullerMKP22[272], PopovicCGNC22[307], ZhangJZL22[410], abs-2211-14492[348], ArmstrongGOS21[13], Lackner-MMWW21[223], PandeyS21a[294], QinWSLS21[314], SacramentoSP20[322], WangB20[390], GalleguillosKSB19[124], FrimodigS19[121], Tom19[363], abs-1902-09244[160], abs-1911-04766[134], GedikKEK18[132], ArbaouiY18[12], DemirovicS18[95], BenediktSMVH18[49], NishikawaSTT18[280], NishikawaSTT18a[281], OuelletQ18[290], CappartS17[73], KletzanderM17[204], HechingH16[163], MelgarejoLS15[6], VilimLS15[385], WangMD15[392], ZhouGL15[416], KoschB14[208], CireCH13[80], KelarevaTK13[197], OzturkTHO13[293], cpaior-SchuttFS13[329], LimtanyakulS12[237], LombardiM12[245], NovasH12[286], RendlPHPR12[318], HermenierDL11[174], SchuttFSW11[332], TrojetHL11[367], GrimesH10[149], LopesCSM10[246], Laborie09[220], SchuttFSW09[331], MouraSCL08[271], Simonis07[344], QuirogaZH05[317], LimRX04[233], BeldiceanuC02[42], Bartak02[33], ElkhyariGJ02a[108], Mason01[259], ArtiguesR00[17], KorbaaYG99[206], Wallace96[388], SimonisC95[345]
CPSystems	SICStus	ArmstrongGOS21[13], LetortCB15[230], LetortCB13[229], LetortBC12[228]	MossigeGSMC17[269], SchuttFSW11[332], QuSN06[316]	ArmstrongGOS22[14], PopovicCGNC22[307], YangSS19[402], Madi-WambaLOBM17[252], BeldiceanuCDP11[43], TrojetHL11[367], SchuttFSW09[331], BeldiceanuCP08[44], Geske05[139], Bartak02[33], BeldiceanuC02[42]
CPSystems	Z3	KoehlerBFFHPSSS21[205]	VlkHT21[387], WikarekS19[395], Zhou97[415]	ZhangW18[412], BofilCSV17[57], BertholdHLMS10[52], Zhou96[414]
ApplicationAreas	COVID		GeibingerKKMMW21[133]	GurPAE23[157], Mehdizadeh-Somarin23[260], OujanaAYB22[292]
ApplicationAreas	HVAC	LimHTB16[234], LimBTBB15[235], GrimesIOS14[152]		
ApplicationAreas	agriculture			AkramNHRSA23[7], Astrand0F21[20], BenderWS21[47], Qin-WSLS21[314]
ApplicationAreas	aircraft	PohlAK22[305], WangB20[390], LombardiM12[245], FrankK05[119], ArtiouchineB05[18]	WangB23[391], Simonis07[344], SakkoutW00[325]	PrataAN23[312], PovedaAA23[309], abs-1902-09244[160], LaborieRSV18[222], Laborie09[220], KovacsB08[209], KrogtLPHJ07[372], MartinPY01[258], GruianK98[155], Darby-DowmanLMZ97[86], Wallace96[388], Simonis95[343], SimonisC95[345]
ApplicationAreas	automotive		LimtanyakulS12[237], SunLYL10[349], BarlattCG08[31], SchildW00[327]	PovedaAA23[309], AntuoriHHEN21[11], HubnerGSV21[184], KoehlerBFFHPSSS21[205], VlkHT21[387], BarzegaranZP20[36], GeibingerMM19[135], abs-1911-04766[134], BonfiettiZLM16[64], AlesioNBG14[99], BeniniBGM06[50], KovacsV06[214], Wallace96[388]
ApplicationAreas	cable tree	KoehlerBFFHPSSS21[205]		
ApplicationAreas	car manufacturing		AntuoriHHEN21[11]	
ApplicationAreas	container terminal	QinDCS20[315], SacramentoSP20[322]	LaborieRSV18[222]	PerezGSL23[299], abs-2312-13682[300], WallaceY20[389], CauwelaertDMS16[76], DejemeppeCS15[92], NovasH12[286], LimRX04[233]
ApplicationAreas	crew-scheduling	PourDERB18[308]	Mason01[259], Touraivane95[366]	WangB23[391], HeinzNVH22[169], HachemiGR11[158], BeldiceanuC02[42]
ApplicationAreas	dairies			Bartak02a[32], Bartak02[33]
ApplicationAreas	dairy	EscobetQPRA19[110]	PrataAN23[312]	
ApplicationAreas	datacenter	HermenierDL11[174]		GalleguillosKSB19[124], Madi-WambaLOBM17[252], IfrimOS12[185], LetortBC12[228]
ApplicationAreas	datacentre			
ApplicationAreas	day-ahead market			
ApplicationAreas	deep space			

Table 9: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
ApplicationAreas	earth observation	SquillaciPR23[346], VerfaillieL01[375]	BensanaLV99[51]	PraletLJ15[311], SimoninAHL15[342], KelarevaTK13[197], OddiPCC03[288]
ApplicationAreas	earth orbit			SquillaciPR23[346]
ApplicationAreas	electroplating		RodosekW98[320]	EfthymiouY23[106], WallaceY20[389], NovasH12[286]
ApplicationAreas	energy-price	GrimesIOS14[152], IfrimOS12[185]		PrataAN23[312], EscobetQPRA19[110], BenediktSMVH18[49], He0GLW18[161], LimHTB16[234]
ApplicationAreas	farming			WinterMMW22[396], Astrand0F21[20]
ApplicationAreas	forestry	HachemiGR11[158]		Astrand0F21[20]
ApplicationAreas	hoist	EfthymiouY23[106], WallaceY20[389], RodosekW98[320]	NovasH12[286], BonfiettiLBM11[61]	AstrandJZ18[21], BonfiettiLBM12[62], LombardiBMB11[242], KorbAAYG99[206], PapaB98[296]
ApplicationAreas	medical	ShinBBHO18[338], WangMD15[392], TopalogluO11[364]	HechingH16[163], DejemeppeD14[93], RendlPHPR12[318]	AkramNHRS23[7], IsikYA23[186], AbreuN22[89], GeibingerKKMMW21[133], FrimodigS19[121], Novas19[284], abs-1902-01193[8], GedikKEK18[132], BoothNB16[65], DoulabiRP14[103], Simonis07[344]
ApplicationAreas	nurse	GurPAE23[157], abs-1902-01193[8], ShinBBHO18[338], WangMD15[392], RendlPHPR12[318], Simonis07[344], Mason01[259]	OuelletQ22[291], GeibingerKKMMW21[133], GeibingerMM21[136], FrohnerTR19[122]	PerezGSL23[299], abs-2312-13682[300], FrimodigS19[121], GedikKEK18[132], NishikawaSTT18a[281], DoulabiRP14[103], TopalogluO11[364]
ApplicationAreas	offshore		SubulanC22[347]	BoudreaultSLQ22[67]
ApplicationAreas	oven scheduling	LacknerMMWW23[224], LacknerMMWW21[223]		
ApplicationAreas	patient	GurPAE23[157], FrimodigS19[121], ShinBBHO18[338], HechingH16[163], WangMD15[392], DejemeppeD14[93], RendlPHPR12[318], TopalogluO11[364]	GeibingerKKMMW21[133]	MurinR19[273], DoulabiRP14[103], Simonis07[344]
ApplicationAreas	perfect-square	BeldiceanuCDP11[43], BeldiceanuCP08[44]		
ApplicationAreas	physician	GeibingerKKMMW21[133], ShinBBHO18[338]		GurPAE23[157], FrimodigS19[121], WangMD15[392], TopalogluO11[364]
ApplicationAreas	pipeline	LopesCSM10[246], MouraSCL08[271], MouraSCL08a[270], ErtlK91[109]	BeniniBGM06[50], WolinskiKG04[399]	EfthymiouY23[106], PopovicCGNC22[307], HanenKP21[159], LaborieRSV18[222], NishikawaSTT18[280], NishikawaSTT18a[281], GilesH16[140], GoelSHFS15[144], SimoninAHL15[342], NovasH10[285], BarlattCG08[31], KuchcinskiW03[218], Wolf03[397], GruianK98[155], Darby-DowmanLMZ97[86], SimonisC95[345]
ApplicationAreas	radiation therapy	FrimodigS19[121]		
ApplicationAreas	railway	PourDERB18[308], CappartS17[73], AronssonBK09[15], Acuna-AgostMFG09[4], Geske05[139], MartinPY01[258]	LaborieRSV18[222], Mason01[259]	BogaerdW19[371], ZhouGL15[416], AbrilSB05[3], Wallace96[388]
ApplicationAreas	real-time pricing		He0GLW18[161], GrimesIOS14[152]	LimHTB16[234]
ApplicationAreas	rectangle-packing	YangSS19[402]		MossigeGSMC17[269], VilimLS15[385], BeldiceanuCDP11[43], SchuttW10[334], BeldiceanuCP08[44]
ApplicationAreas	robot	IsikYA23[186], LiFJZLL22[231], ArmstrongGOS21[13], KoehlerBFFHPSSS21[205], WessenCS20[394], BehrensLM19[40], MurinR19[273], abs-1901-07914[41], LaborieRSV18[222], MossigeGSMC17[269], BoothNB16[65], NovasH14[287], NovasH12[286], ValleMGTO3[369]	PrataAN23[312], Mehdizadeh-Somarin23[260], OujanaAYB22[292], Astrand0F21[20], WallaceY20[389], WikarekS19[395], NishikawaSTT18[280], NishikawaSTT18a[281], VanczaM01[374]	MontemanniD23[268], abs-2305-19888[170], GeitzGSSW22[137], HeinzNVH22[169], MullerMKP22[272], VlkHT21[387], ZhangYW21[411], BarzegaranZP20[36], AstrandJZ20[22], BenediktMH20[48], MengZRZL20[262], Novas19[284], AstrandJZ18[21], ZhangW18[412], ZarandiKS16[407], SimoninAHL15[342], BonfiettiLBM12[62], LimtanyakulS12[237], BonfiettiLBM11[61], TrojetHL11[367], ZeballosQH10[409], Limtanyakul07[236], QuirogaZH05[317], ZeballosH05[408], KorbAAYG99[206], CestaOS98[77], BeckDF97[37], Caseau97[75], Wallace96[388]
ApplicationAreas	satellite	SquillaciPR23[346], GodetLHS20[143], LaborieRSV18[222], PraletLJ15[311], KelarevaTK13[197], VerfaillieL01[375], BensanaLV99[51]	Laborie09[220], FrankK05[119]	EfthymiouY23[106], Astrand0F21[20], Pralet17[310], SimoninAHL15[342], BessiereHMW14[53], HeinzSB13[168], SimoninAHL12[341], OddiPCC03[288]

Table 9: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
ApplicationAreas	semiconductor	MalapertN19[254], NovasH12[286]	QinWSLS21[314], Davenport10[87], KrogtLPHJ07[372]	LacknerMMWW23[224], MullerMKP22[272], ZhangJZL22[410], abs-2211-14492[348], FanXG21[115], LacknerMMWW21[223], PandeyS21a[294], MengZRZL20[262], NattafM20[278], TangB20[352], Novas19[284], LaborieRSV18[222], KoschB14[208]
ApplicationAreas	ship building			AalianPG23[1]
ApplicationAreas	steel cable			PerezGSL23[299], abs-2312-13682[300]
ApplicationAreas	steel mill	GaySS14[131], HeinzSSW12[166], SchausHMCMD11[326], HentenryckM08[173], GarganiR07[125]		
ApplicationAreas	super-computer	BartoliniBBLM14[35]		GalleguillosKSB19[124]
ApplicationAreas	torpedo	GoldwaserS17[146], KletzanderM17[204]		
ApplicationAreas	vaccine			
ApplicationAreas	yard crane		QinDCS20[315]	WallaceY20[389]
Industries	aerospace industry			SchildW00[327]
Industries	agricultural industry	WinterMMW22[396]		
Industries	automotive industry		LimtanyakulS12[237]	AntuoriHHEN21[11], BonfiettiZLM16[64], SchildW00[327], Wallace96[388]
Industries	chemical industry		Timpe02[362]	LaborieRSV18[222], GilesH16[140], LombardiM12[245], PoderBS04[304]
Industries	chemical processing industry			GilesH16[140]
Industries	control system industry			BonfiettiZLM16[64]
Industries	electricity industry			PopovicCGNC22[307]
Industries	electronics industry			LacknerMMWW23[224], LacknerMMWW21[223]
Industries	food industry			OujanaAYB22[292], GroleazNS20[154], EscobetPQPRA19[110], HachemiGR11[158], Simonis95[343], SimonisC95[345]
Industries	food-processing industry			KlankeBYE21[203], abs-1902-09244[160]
Industries	manufacturing industry			PrataAN23[312], LacknerMMWW23[224], WinterMMW22[396], FanXG21[115], LacknerMMWW21[223], Mercier-AubinGQ20[263], TangB20[352], EscobetPQPRA19[110], GedikKEK18[132]
Industries	mineral industry			Astrand0F21[20], AstrandJZ20[22]
Industries	mining industry		AalianPG23[1]	abs-2402-00459[279], CampeauG22[72], Astrand0F21[20], AstrandJZ20[22]
Industries	oil industry			LopesCSM10[246]
Industries	packaging industry			ArmstrongGOS21[13]
Industries	petro-chemical industry			LaborieRSV18[222], GilesH16[140]
Industries	pharmaceutical industry			YuraszcekMCCR23[406], GeibingerKKMMW21[133], NovaraNH16[283]
Industries	potash industry			Astrand0F21[20], AstrandJZ20[22], AstrandJZ18[21]
Industries	power industry			FrostD98[123]
Industries	process industry		Timpe02[362]	HeinzSSW12[166], Wallace96[388]
Industries	retail industry			ChapadosJR11[78]
Industries	services industry			DoomsH08[102]
Industries	ship repair industry			BoudreaultSLQ22[67]
Industries	steel industry		DavenportKRSH07[88]	IsikYA23[186], KimCMLLP23[202], LacknerMMWW23[224], OujanaAYB22[292], LacknerMMWW21[223], abs-1902-09244[160], GoldwaserS17[146], KletzanderM17[204], HeinzSSW12[166], SchausHMCMD11[326], GrimesH10[149], GarganiR07[125]
Industries	steel making industry			
Industries	textile industry	Mercier-AubinGQ20[263]		BessiereHMQW14[53]
Industries	tourism industry			LiuCGM17[239]

Table 9: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
Benchmarks	benchmark	Bit-Monnot23[55], IsikYA23[186], JuviniHHL23[188], LacknerMMWW23[224], PovedaAA23[309], TardivoDFMP23[354], TasselGS23[355], YuraszeckMCCR23[406], abs-2306-05747[356], AbreuN22[89], BoudreaultSLQ22[67], LiFJZLL22[231], MullerMKP22[272], OuelletQ22[291], WinterMMW22[396], ZhangJZL22[410], abs-2211-14492[348], GeibingerMM21[136], FanXG21[115], KoehlerBFFHPSSS21[205], LacknerMMWW21[223], PandeyS21a[294], ZhangYW21[411], GodetLHS20[143], WallaceY20[389], FrimodigS19[121], ColT19[83], LiuLH19[238], abs-1902-09244[160], abs-1911-04766[134], DemirovicS18[95], GedikKEK18[132], Laborie18a[221], LaborieRSV18[222], OuelletQ18[290], KreterSS17[217], BurtLPS15[70], KreterSS15[216], MelgarejoLS15[6], VilimLS15[385], BonfiettiLM14[63], HeinzSB13[168], cpaior-SchuttFS13[329], GrimesH11[150], SchuttFSW11[332], SchuttFSW09[331], WatsonB08[393], KuchcinskiW03[218], Wolf03[397], HeipckeCCS00[171], SakkoutW00[325], BensanaLV99[51], BeckDF97[37]	abs-2402-00459[279], AkramNHRSA23[7], KameugneFND23[193], MontemanniD23a[267], YuraszeckMC23[405], abs-2305-19888[170], HeinzNVH22[169], FetgoD22[116], OujanaAYB22[292], KovacsTKSG21[215], GroleazNS20[154], BenediktMH20[48], MengZRZL20[262], SacramentoSP20[322], GeibingerMM19[135], Novas19[284], FahimiOQ18[113], ArbaouiY18[12], NishikawaSTT18[280], BofillCSV17[57], MossigeGSMC17[269], BonfiettiZLM16[64], NovaraNH16[283], SchuttS16[333], SzerediS16[351], DejemeppeCS15[92], LetortCB15[230], LombardiBM15[241], SialaAH15[340], cpaior-GayHS15[130], KameugneFSN14[195], KoschB14[208], LetortCB13[229], OuelletQ13[289], LimtanyakulS12[237], SchuttCSW12[328], BeldiceanuCDP11[43], ClercqPB11[81], KameugneFSN11[194], KelbelH11[198], GrimesH10[149], GrimesHM09[151], LiessM08[232], MouraSCL08a[270], HoeveGSL07[373], MonetteDD07[265], HentenryckM04[172], KovacsV04[213], VilimBC04[383], DannaP03[85], OddiPCC03[288], Bartak02a[32], GruianK98[155], Zhou97[415]	PrataAN23[312], EfthymiouY23[106], KimCMLLP23[202], MontemanniD23[268], SquillaciPR23[346], Armstrong-GOS22[14], PohlAK22[305], SubulanC22[347], Armstrong-GOS21[13], Astrand0F21[20], HubnerGSV21[184], Klanke-BYE21[203], VlKHT21[387], AstrandJZ20[22], Lunardi-BLRV20[249], NattafM20[278], QinDCS20[315], FrohnerTR19[122], BogaerdT19[371], MalapertN19[254], MurinR19[273], abs-1901-07914[41], KameugneFGOQ18[192], NishikawaSTT18a[281], PourDERB18[308], ZhangW18[412], GelainPRVW17[138], Hooker17[181], Pralet17[310], YoungFS17[403], FontaineMH16[117], CauwelaertDMS16[76], Madi-WambaB16[251], GayHLS15[128], LimBTBB15[235], Siala15[339], DerrienPZ14[98], AlessioNBG14[99], BessiereHMqw14[53], NovasH14[287], GuSS13[156], SchuttFS13[330], BonfiettiLBM12[62], LetortBC12[228], LombardiM12[245], RendIPHPR12[318], SerraNM12[335], HeinzS11[167], BonfiettiLBM11[61], KovacsB11[210], LahimerLH11[225], LombardiBMB11[242], SchausHMCMD11[326], Vilim11[382], LombardiM10[340], LopesCSM10[246], SchuttW10[334], ZeballosQH10[409], GarridoAO09[126], Laborie09[220], KovacsB08[209], LauLN08[226], LiessM08[232], MouraSCL08a[270], HoeveGSL07[373], KhayatLR06[200], KovacsV06[214], FrankK05[119], Vilim05[379], VilimBC05[384], WuBB05[401], ArtiguesBF04[16], Vilim04[378], BeldiceanuC02[42], ElkhayariGJ02a[108], KamarainenS02[190], BaptisteP00[29], PapaB98[296], RodosekW98[320], Darby-DownmanLMZ97[86], Caseau97[75], BaptisteP97[28], Goltz95[147], Puget95[313], ErtlK91[109]
Benchmarks	bitbucket		TardivoDFMP23[354]	HeoGLW18[161], CappartS17[73], CauwelaertDMS16[76], GayHS15[129], DejemeppeCS15[92], GayHLS15[128], cpaior-GayHS15[130], DejemeppeD14[93], HoundjiSWD14[183]
Benchmarks	generated instance	IsikYA23[186], abs-1911-04766[134]	PerezGSL23[299], abs-2312-13682[300], GodetLHS20[143], Madi-WambaB16[251], KelbelH11[198], SchausHMCMD11[326]	abs-2402-00459[279], EfthymiouY23[106], abs-2305-19888[170], BoudreaultSLQ22[67], HeinzNVH22[169], abs-2211-14492[348], GeibingerMM21[136], HanenKP21[159], AbohashimaEG21[2], Astrand0F21[20], BenediktMH20[48], LunardiBLRV20[249], GeibingerMM19[135], MalapertN19[254], YangSS19[402], BenediktSMVH18[49], PourDERB18[308], GoldwaserS17[146], MossigeGSMC17[269], BonfiettiZLM16[64], DejemeppeCS15[92], LetortCB15[230], NattafAL15[276], HoundjiSWD14[183], LimtanyakulS12[237], BonfiettiLBMV11[61], KovacsV06[214], ArtiouchineB05[18], LimRX04[233]
Benchmarks	github	KoehlerBFFHPSSS21[205]	PovedaAA23[309], TardivoDFMP23[354], BoudreaultSLQ22[67], BenediktMH20[48], GodetLHS20[143], LunardiBLRV20[249]	abs-2402-00459[279], Bit-Monnot23[55], JuviniHHL23[188], SquillaciPR23[346], TasselGS23[355], YuraszeckMC23[405], YuraszeckMCCR23[406], abs-2306-05747[356], GeitzGSSW22[137], MullerMKP22[272], OuelletQ22[291], GeibingerMM21[136], AbohashimaEG21[2], KovacsTKSG21[215], VlKHT21[387], WangB20[390], ColT19[83], BehrensLM19[40], MurinR19[273], abs-1901-07914[41], abs-1911-04766[134], BenediktSMVH18[49], ShinBBHO18[338], GoldwaserS17[146], LiuCGM17[239], YoungFS17[403], BonfiettiZLM16[64], SialaAH15[340]
Benchmarks	gitlab		HeinzNVH22[169]	abs-2305-19888[170], BoudreaultSLQ22[67], AntuoriHHEN21[11]

Table 9: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
Benchmarks	http://	IsikYA23[186], YuraszeckMC23[405], HeinzNVH22[169], He0GLW18[161], BaptisteB18[26], LiuCGM17[239], VilimLS15[385], BofillEGPSV14[58], GrimesIOS14[152], SchuttFSW11[332], GarridoAO09[126], Mason01[259]	KameugneFND23[193], FetgoD22[116], WessenCS20[394], GedikKEK18[132], DemirovicS18[95], LaborieRSV18[222], PourDERB18[308], ShinBBHO18[338], BofillCSV17[57], LimHTB16[234], NovaraNH16[283], BofillGSV15[59], BurtLPS15[70], LetortCB15[230], LimBTBB15[235], MurphyMB15[274], SialaAH15[340], WangMD15[392], BartoliniBBLM14[35], KameugneFSN14[195], KelarevaTK13[197], LetortCB13[229], cpaioir-SchuttFS13[329], IfrimOS12[185], LetortBC12[228], SerraNM12[335], ZibranR11a[419], Vilim05[379], VanczaM01[374], HeipckeCCS00[171], BensanaLV99[51], Darby-DowmanLMZ97[86]	PrataAN23[312], abs-2402-00459[279], Caballero23[71], JuvinHHL23[188], LacknerMMWW23[224], MontemanniD23a[267], WangB23[391], abs-2305-19888[170], GeitzGSSW22[137], AbreuN22[89], PohlAK22[305], AntuoriHHEN21[11], GeibingerKKMMW21[133], HubnerGSV21[184], KoehlerBFFHPSSS21[205], KovacsTKSG21[215], VlkHT21[387], BarzegaranZP20[36], AstrandJZ20[22], Mercier-AubinGQ20[263], NattafM20[278], WallaceY20[389], WangB20[390], GeibingerMM19[135], GalleguillosKSB19[124], BogaerdW19[371], EscobetPQPRA19[110], BehrensLM19[40], ColT19[83], MalapertN19[254], abs-1901-07914[41], abs-1911-04766[134], KameugneFGOQ18[192], Laborie18a[221], ZhangW18[412], GelainPRVW17[138], GoldwasserS17[146], KletzanderM17[204], KreterSS17[217], MossigeGSMC17[269], NattafAL17[277], Pralet17[310], YoungFS17[403], CauwelaertDMS16[76], Madi-WambaB16[251], SchuttS16[333], SzerediS16[351], Tesch16[359], DejemeppeCS15[92], GayHS15[129], EvenSH15a[112], GoelSHFS15[144], EvenSH15[111], Kameugne15[191], KreterSS15[216], Melgar-ejoLS15[6], NattafAL15[276], PesantRR15[301], Siala15[339], ZhouGL15[416], DerrienPZ14[98], AlesioNBG14[99], BessiereHMQW14[53], BonfiettiLM14[63], HoundjiSWD14[183], NovasH14[287], HeinzSB13[168], OuelletQ13[289], Ozturk-THO13[293], SchuttFS13[330], HeinzSSW12[166], BonfiettiLBM12[62], LimtanyakulS12[237], RendIPHPR12[318], SchuttCSW12[328], BeldiceanuCDP11[43], HeinzS11[167], GrimesH11[150], BartakS11[34], ClercqPBJ11[81], BonfiettiLBM11[61], HermenierDL11[174], KameugneFSN11[194], KelbelH11[198], KovacsK11[212], LahimerLH11[225], SchausHMCMD11[326], TopalogluO11[364], TrojetHL11[367], Vilim11[382], BertholdHLSM10[52], LopesCSM10[246], NovasH10[285], SunLYL10[349], ZeballosQH10[409], AronssonBK09[15], Laborie09[220], SchuttFSW09[331], ThiruvadyBME09[361], Vilim09[380], abs-0907-0939[302], GarridoOS08[127], LiessM08[232], GarganiR07[125], HoeveGSL07[373], KeriK07[199], Hooker06[180], KhayatLR06[200], DilkinaDH05[100], Geske05[139], AbrilSB05[3], ArtiouchineB05[18], FortinZDF05[118], VilimBC05[384], ZeballosH05[408], KovacsV04[213], PoderBS04[304], Vilim04[378], VilimBC04[383], OddiPCC03[288], ValleMGT03[369], ElkhyariGJ02a[108], Bartak02a[32], Bartak02[33], HookerY02[182], KamarainenS02[190], Muscettola02[275], Timpe02[362], VerfaillieL01[375], BaptisteP00[29], SakkoutW00[325], SchildW00[327], PapaB98[296], Wallace96[388]

Table 9: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
Benchmarks	https://	EfthymiouY23[106], GurPAE23[157], IsikYA23[186], MontemanniD23[268], PovedaAA23[309], TardivoDFMP23[354], abs-2305-19888[170], BoudreaultSLQ22[67], HeinzNVH22[169], ArmstrongGOS22[14], GeitzGSSW22[137], CampeauG22[72], MullerMKP22[272], OuelletQ22[291], HanenKP21[159], Astrand0F21[20], BenderWS21[47], HillTV21[175], GeibingerKKMMW21[133], HubnerGSV21[184], KlankeBYE21[203], KoehlerBFFHPSSS21[205], BenediktMH20[48], GroleazNS20[154], LunardiBLRV20[249], Mercier-AubinGQ20[263], NattafM20[278], WessenCS20[394], ColT19[83], GeibingerMM19[135], GalleguillosKSB19[124], BogaerdtW19[371], MalapertN19[254], MurinR19[273], YangSS19[402], DemirovicS18[95], KameugneFGOQ18[192], Laborie18a[221], OuelletQ18[290], Tesch18[360]	abs-2402-00459[279], AkramNHRSA23[7], KameugneFND23[193], KimCMLLP23[202], LacknerMMWW23[224], Mehdizadeh-Somarin23[260], MontemanniD23a[267], SquillaciPR23[346], YuraszeckMC23[405], YuraszeckMCCR23[406], FetgoD22[116], AbreuN22[89], PohlAK22[305], SubulanC22[347], WinterMMW22[396], KovacsTKSG21[215], SacramentoSP20[322], TangB20[352], WallaceY20[389], FrohnerTR19[122], FrimodigS19[121], LiuLH19[238], abs-1911-04766[134], AstrandJZ18[21], GedikKEK18[132], He0GLW18[161], ArbaouiY18[12], BenediktSMVH18[49], LiuCGM17[239], YoungFS17[403]	PrataAN23[312], Bit-Monnot23[55], Caballero23[71], JuvinHHL23[188], JuvinHL23[189], TasselGS23[355], abs-2306-05747[356], OujanaAYB22[292], PopovicCGNC22[307], abs-2211-14492[348], AbohashimaEG21[2], FanXG21[115], ArmstrongGOS21[13], AntuoriHHEN21[11], Lackner-MMWW21[223], PandeyS21a[294], QinWSLS21[314], VlkHT21[387], ZhangYW21[411], AstrandJZ20[22], GodetLHS20[143], BarzegaranZP20[36], MengZRZL20[262], QinDCS20[315], WangB20[390], EscobetPQPRA19[110], BehrensLM19[40], Novas19[284], ParkUJR19[297], abs-1901-07914[41], abs-1902-09244[160], FahimiOQ18[113], LaborieRSV18[222], NishikawaSTT18[280], NishikawaSTT18a[281], ShinBBHO18[338], GoldwasserS17[146], CappartS17[73], FontaineMH16[117], CauwelaertDMS16[76], BonfiettiZLM16[64], Madi-WambaB16[251], DejemeppeCS15[92], GayHS15[129], WangMD15[392], cpaior-GayHS15[130], DejemeppeD14[93], HoundjiSWD14[183], SunLYL10[349]
Benchmarks	industrial instance		BonfiettiZLM16[64]	EfthymiouY23[106], PovedaAA23[309], TasselGS23[355], abs-2306-05747[356], OujanaAYB22[292], GroleazNS20[154], Mercier-AubinGQ20[263], NattafM20[278], MalapertN19[254], BofillGSV15[59], BofillEGPSV14[58], BonfiettiLBM11[61], LombardiBMB11[242]
Benchmarks	industrial partner	BoudreaultSLQ22[67]	LacknerMMWW23[224], ArmstrongGOS21[13]	WinterMMW22[396], LacknerMMWW21[223], VlkHT21[387], Mercier-AubinGQ20[263], GeibingerMM19[135], abs-1911-04766[134], MossigeGSMC17[269], LimtanyakulS12[237], KovacsV06[214], KovacsV04[213]
Benchmarks	industry partner	BurtLPS15[70]		WinterMMW22[396], ArmstrongGOS21[13], abs-1902-09244[160]
Benchmarks	instance generator	LacknerMMWW23[224], LacknerMMWW21[223]		abs-2402-00459[279], ArmstrongGOS21[13], abs-1911-04766[134], GoldwasserS17[146], YoungFS17[403], LombardiM09[243], HeipckeCCS00[171]
Benchmarks	random instance	LacknerMMWW21[223], WallaceY20[389]	EfthymiouY23[106], LacknerMMWW23[224], WangB23[391], LetortCB15[230], KelbelH11[198]	Mehdizadeh-Somarin23[260], MullerMKP22[272], OuelletQ22[291], abs-2211-14492[348], HanenKP21[159], Klanke-BYE21[203], VlkHT21[387], BenediktMH20[48], Lunardi-BLRV20[249], BenediktSMVH18[49], FahimiOQ18[113], CappartS17[73], Hooker17[181], MossigeGSMC17[269], Madi-WambaB16[251], DerrienPZ14[98], DerrienP14[97], KameugneFSN14[195], LetortCB13[229], BillautHL12[54], LetortBC12[228], LimtanyakulS12[237], BartakS11[34], Hooker06[180], ArtiouchineB05[18], Hooker05[178], Hooker04[177], BeldiceanuC02[42]

Table 9: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
Benchmarks	real-life	GurPAE23[157], SubulanC22[347], WinterMMW22[396], HubnerGSV21[184], QinDCS20[315], WangMD15[392], Bartak02a[32], MartinPY01[258]	LacknerMMWW23[224], OujanaAYB22[292], Astrand0F21[20], KlankeBYE21[203], LacknerMMWW21[223], abs-1911-04766[134], PourDERB18[308], GaySS14[131], LimtanyakulS12[237], Tsang03[368], SimonisC95[345], DincbasSH90[101]	PrataAN23[312], EftymiouY23[106], IsikYA23[186], PovedaAA23[309], CampeauG22[72], BoudreaultSLQ22[67], GeitzGSSW22[137], GeibingerMM21[136], AstrandJZ20[22], GodetLHS20[143], SacramentoSP20[322], WallaceY20[389], GeibingerMM19[135], MurinR19[273], Laborie18a[221], NishikawaSTT18a[281], CappartS17[73], GelainPRVW17[138], CauwelaertDMS16[76], EvenSH15a[112], EvenSH15[111], GrimesIOS14[152], BessiereHMqw14[53], OzturkTHO13[293], IfrimOS12[185], BartakS11[34], LombardiBMB11[242], TopalogluO11[364], AronssonBK09[15], GarganiR07[125], Limtanyakul07[236], GomesHS06[148], BeniniBGM06[50], KhayatLR06[200], Geske05[139], KovacsEKV05[211], VilimBC05[384], KovacsV04[213], VilimBC04[383], ValleMGTO3[369], ElkhyariGJ02a[108], BeldiceanuC02[42], Bartak02[33], VanczaM01[374], BelhadjiI98[46], Darby-DowmanLMZ97[86], Touraivane95[366]
Benchmarks	real-world	abs-2305-19888[170], HeinzNVH22[169], GeibingerMM21[136], KoehlerBFFHPSSS21[205], GeibingerMM19[135], FrohnerTR19[122], abs-1902-09244[160], abs-1911-04766[134], EvenSH15a[112], EvenSH15[111], MelgarejoLS15[6], RendlPHPR12[318], MouraSCL08a[270]	PrataAN23[312], AalianPG23[1], IsikYA23[186], TasselGS23[355], WangB23[391], YuraszeckMCCR23[406], abs-2306-05747[356], MullerMKP22[272], OujanaAYB22[292], ArmstrongGOS21[13], AstrandJZ20[22], TangB20[352], WallaceY20[389], WessenCS20[394], FrimodigS19[121], ParkUJR19[297], LaborieRSV18[222], PourDERB18[308], ShinBBHO18[338], BonfiettiZLM16[64], HechingH16[163], MurphyMB15[274], KelarevaTK13[197], OzturkTHO13[293], LombardiM12[245], BartakS11[34], LopesCSM10[246]	abs-2402-00459[279], Bit-Monnot23[55], JuvinHL23[189], KimCMLLP23[202], PerezGSL23[299], PovedaAA23[309], TardivoDFMP23[354], abs-2312-13682[300], AbreuN22[89], CampeauG22[72], GeitzGSSW22[137], BoudreaultSLQ22[67], FetgoD22[116], ArmstrongGOS22[14], PohlAK22[305], SubulanC22[347], Astrand0F21[20], GeibingerKKMMW21[133], HillTV21[175], AbohashimaEG21[2], KovacsTKSG21[215], SacramentoSP20[322], BehrensLM19[40], ColT19[83], Tom19[363], abs-1901-07914[41], DemirovicS18[95], HeOGLW18[161], KameugneFGOQ18[192], Laborie18a[221], NishikawaSTT18[280], NishikawaSTT18a[281], Madi-WambaLOBM17[252], MossigeGSMC17[269], NattafAL17[277], BoothNB16[65], LimHTB16[234], Madi-WambaB16[251], ZarandiKS16[407], BurtLPS15[70], DejemeppeCS15[92], LombardiBM15[241], WangMD15[392], ZhouGL15[416], cpaior-GayHS15[130], BonfiettiLM14[63], DerrienPZ14[98], GrimesIOS14[152], HeinzSSW12[166], SerraNM12[335], SchuttFSW11[332], TrojetHL11[367], LombardiM10[244], ZebalosQH10[409], AronssonBK09[15], Laborie09[220], LombardiM09[243], SchuttFSW09[331], abs-0907-0939[302], BartlattCG08[31], GarridoOS08[127], LauLN08[226], WatsonB08[393], KrogtLPHJ07[372], KhemmoudjPB06[201], WolfS05[398], KamarainenS02[190], VanczaM01[374], SakkoutW00[325], Darby-DowmanLMZ97[86], BeckDF97[37], ErtIK91[109]
Benchmarks	supplementary material		MontemanniD23[268]	JuvinHHL23[188], TasselGS23[355], abs-2306-05747[356], BoudreaultSLQ22[67], WinterMMW22[396], ArmstrongGOS21[13], AntuoriHHEN21[11], KovacsTKSG21[215], LacknerMMWW21[223], MengZRZL20[262]
Benchmarks	zenodo	LacknerMMWW23[224], SacramentoSP20[322]		KimCMLLP23[202], WinterMMW22[396], ArmstrongGOS21[13], Simonis07[344], Kumar03[219]
Algorithms	bi-partite matching			
Algorithms	edge-finder	KameugneFND23[193], FetgoD22[116], KameugneFSN14[195], BaptisteP00[29]	OuelletQ13[289], KelbelH11[198], PapaB98[296]	BaptisteB18[26], BonfiettiZLM16[64], GuSS13[156], SchuttFSW11[332], SchuttFSW09[331], ValleMGTO3[369], SakkoutW00[325], BaptisteP97[28], Zhou97[415]

Table 9: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
Algorithms	edge-finding	JuvinHHL23[188], KameugneFND23[193], TardivoDFMP23[354], FetgoD22[116], OuelletQ22[291], YangSS19[402], BaptisteB18[26], FahimiOQ18[113], KreterSS17[217], Kameugne15[191], cpaior-GayHS15[130], KameugneFSN14[195], OuelletQ13[289], cpaior-SchuttFS13[329], ClercqPBJ11[81], KameugneFSN11[194], SchuttFSW11[332], Vilim11[382], Vilim09[380], ArtiouchineB05[18], Hooker05[178], VilimBC05[384], VilimBC04[383], BaptisteP00[29], PapaB98[296], BeckDF97[37], BaptisteP97[28]	BoudreaultSLQ22[67], LaborieRSV18[222], Tesch18[360], CauwelaertDMS16[76], DejemeppeCS15[92], LetortCB15[230], LetortCB13[229], LetortBC12[228], LombardiM12[245], LiessM08[232], HoeveGSL07[373], MonetteDD07[265], Vilim04[378], Bartak02[33], SchildW00[327], Zhou97[415]	CampeauG22[72], WallaceY20[389], OuelletQ18[290], NattafAL17[277], Tesch16[359], GayHLS15[128], SialaAH15[340], DerrienP14[97], HeinzSB13[168], GuSS13[156], Ozturk-THO13[293], LimtanyakulS12[237], BeldiceanuCDP11[43], GrimesH11[150], KelbelH11[198], KovacsB11[210], GrimesH10[149], SchuttW10[334], GrimesHM09[151], abs-0907-0939[302], cpaior-Vilim09[381], BeldiceanuCP08[44], KeriK07[199], ArtiguesBF04[16], KovacsV04[213], Sadykov04[323], Vilim03[377], Wolf03[397], Bartak02a[32], Muscettola02[275], Vilim02[376], SakkoutW00[325], Caseau97[75], Zhou96[414], Goltz95[147]
Algorithms	energetic reasoning	TardivoDFMP23[354], FetgoD22[116], OuelletQ22[291], HanenKP21[159], OuelletQ18[290], Tesch18[360], NattafAL17[277], Tesch16[359], NattafAL15[276], cpaior-GayHS15[130], DerrienP14[97], cpaior-SchuttFS13[329], LimtanyakulS12[237], HeinzS11[167], Vilim11[382]	KameugneFND23[193], KameugneFGOQ18[192], SchuttFS13[330]	IsikYA23[186], BoudreaultSLQ22[67], ArmstrongGOS21[13], YangSS19[402], Laborie18a[221], BofillCSV17[57], LetortCB15[230], KameugneFSN14[195], LetortCB13[229], OuelletQ13[289], LombardiM12[245], ClercqPBJ11[81], BeldiceanuCDP11[43], LahimerLH11[225], Vilim09[380], abs-0907-0939[302], cpaior-Vilim09[381], Limtanyakul07[236], WolfS05[398], BaptisteP00[29], PapaB98[296]
Algorithms	max-flow		LopesCSM10[246], MouraSCL08[271], Muscettola02[275]	FanXG21[115], Kumar03[219]
Algorithms	not-first	KameugneFND23[193], FahimiOQ18[113], KameugneFGOQ18[192], cpaior-GayHS15[130], SchuttFSW11[332], ArtiouchineB05[18], VilimBC05[384]	TardivoDFMP23[354], FetgoD22[116], OuelletQ18[290], DejemeppeCS15[92], Kameugne15[191], KameugneFSN14[195], OuelletQ13[289], SchuttW10[334], MonetteDD07[265], VilimBC04[383], Wolf03[397]	JuvinHHL23[188], BoudreaultSLQ22[67], OuelletQ22[291], CauwelaertDMS16[76], Tesch16[359], LimtanyakulS12[237], KameugneFSN11[194], Vilim09[380]
Algorithms	not-last	KameugneFND23[193], TardivoDFMP23[354], FahimiOQ18[113], KameugneFGOQ18[192], OuelletQ18[290], cpaior-GayHS15[130], SchuttW10[334], ArtiouchineB05[18], Vilim05[379], VilimBC05[384], Vilim04[378], Wolf03[397]	FetgoD22[116], Tesch18[360], DejemeppeCS15[92], Kameugne15[191], KameugneFSN14[195], OuelletQ13[289], cpaior-SchuttFS13[329], KameugneFSN11[194], SchuttFSW11[332], Vilim11[382], MonetteDD07[265], VilimBC04[383]	JuvinHHL23[188], BoudreaultSLQ22[67], GeitzGSSW22[137], OuelletQ22[291], GodetLHS20[143], YangSS19[402], CauwelaertDMS16[76], Tesch16[359], LimtanyakulS12[237], GrimesHM09[151], MonetteDH09[266], Vilim09[380], cpaior-Vilim09[381], WolfS05[398], Vilim03[377]
Algorithms	sweep	Tesch18[360], BonfiettiZLM16[64], Tesch16[359], GayHS15[129], LetortCB15[230], NattafAL15[276], SimoninAHL15[342], DerrienPZ14[98], LetortCB13[229], LetortBC12[228], SimoninAHL12[341], ClercqPBJ11[81], abs-0907-0939[302], BeldiceanuP07[45], Wolf03[397], BeldiceanuC02[42]	FahimiOQ18[113], cpaior-GayHS15[130], AronssonBK09[15], WolfS05[398]	KameugneFND23[193], TardivoDFMP23[354], FetgoD22[116], GeitzGSSW22[137], OuelletQ22[291], KameugneFGOQ18[192], Madi-WambaLOBM17[252], EvenSH15a[112], EvenSH15[111], GaySS14[131], DerrienP14[97], OuelletQ13[289], BeldiceanuCDP11[43], Vilim11[382], BeldiceanuCP08[44], KovacsB08[209], Simonis07[344], VilimBC05[384], Vilim04[378]
Algorithms	time-tabling	TardivoDFMP23[354], OuelletQ22[291], DemirovicS18[95], FahimiOQ18[113], cpaior-GayHS15[130], OuelletQ13[289], HeinzS11[167], ElkhayariGJ02a[108], Wallace96[388]	WallaceY20[389], abs-1902-01193[8], OuelletQ18[290], Tesch18[360], GayHS15[129], BofillGSV15[59], Vilim11[382], Bartak02[33]	PrataAN23[312], KameugneFND23[193], LacknerMMWW23[224], FetgoD22[116], GeibingerMM21[136], GodetLHS20[143], GeibingerMM19[135], LiuLH19[238], abs-1911-04766[134], BaptisteB18[26], AstrandJZ18[21], KameugneFGOQ18[192], YoungFS17[403], Tesch16[359], ZarandiKS16[407], GayHLS15[128], LimBTBB15[235], VilimLS15[385], WangMD15[392], BofillEGPSV14[58], KameugneFSN14[195], HeinzSB13[168], GuSS13[156], SchuttFS13[330], BonfiettiLBM12[62], ZhangLS12[413], ChapadosJR11[78], ClercqPBJ11[81], KameugneFSN11[194], TopalogluO11[364], ZibranR11a[419], GrimesH10[149], Simonis07[344], Tsang03[368], Bartak02a[32], SchildW00[327]

7 Examples from Books and Courses

8 Benchmark Sets

8.1 CSPLib

Table 10: CSPLib scheduling problems

Nr	Name	Description	CP System	Data	Code	Solutions	Classification	Constraints
59	Energy Cost Aware Scheduling	Resource-Constrained Scheduling Problem	-	50 TXT	-	-	RCPSP	
61	RCPSP		PyCSP3	PSPLIB	y	PSPLIB		
73	Test Scheduling Problem		ECLiPSe	840 Prolog	y			
77	Stochastic Assignment and Scheduling Problem		OP1, MiniZinc	9 DZN	y			

9 Other Examples

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