

CP Papers on Scheduling

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1 Introduction

2 Conference Paper List

Table 1 lists relevant papers on CP and Scheduling from the CP and CPAIOR conferences. It gives the author names and title of the paper, the reference to the published paper, the year and conference or journal where the paper was published. It also lists the CP systems that were used in the paper, and states if data and/or code of the paper is available online. A link to the stored location is given where it is known.

Table 1: List of Conference Papers

Authors	Title	Cite	Year	Conference	Pages	CP System	Data Avail	Code Avail	Based On	Classification	Constraints
C. Juvin, E. Hebrard, L. Houssin, P. Lopez	An Efficient Constraint Programming Approach to Preemptive Job Shop Scheduling	[187]	2023	CP	16	CP Opt Mistral	ref	y		PJSSP	endBeforeStart span noOverlap
G. Pováda, N. Álvarez, C. Artigues	Partially Preemptive Multi Skill/Mode Resource-Constrained Project Scheduling with Generalized Precedence Relations and Calendars	[308]	2023	CP	21	CP Opt MiniZinc Chuffed	y	y		PP-MS- MMRCPSP/n cal	
Y. Aalian, G. Pesant, M. Gamache	Optimization of Short-Term Underground Mine Planning Using Constraint Programming	[1]	2023	CP	16	CP Opt	n	n			?
R. Kameugne, S. Fetgo, T. Noulamo, C. Djamégni	Horizontally Elastic Edge Finder Rule for Cumulative Constraint Based on Slack and Density	[192]	2023	CP	17	?	BL PSPLib	n	-	RCPSPs	cumulative
N. Efthymiou, N. Yorke-Smith	Predicting the Optimal Period for Cyclic Hoist Scheduling Problems	[105]	2023	CPAIOR	16	OR-Tools	n	n	-	CHSP	-
S. Squillaci, C. Pralet, S. Roussel	Scheduling Complex Observation Requests for a Constellation of Satellites: Large Neighborhood Search Approaches	[345]	2023	CPAIOR	17	Cplex Studio	y	n	-	EOSP	?
D. Kim, Y. Choi, K. Moon, M. Lee, K. Lee, M. Pinedo	Iterated Greedy Constraint Programming for Scheduling Steelmaking Continuous Casting	[201]	2023	CPAIOR	16	Gurobi OR-Tools	y	n	-	SCC	alternative noOverlap
C. Juvin, L. Houssin, P. Lopez	Constraint Programming for the Robust Two-Machine Flow-Shop Scheduling Problem with Budgeted Uncertainty	[188]	2023	CPAIOR	16	CP Opt Cplex	ref	n	-	Perm FSSP	endBeforeStart noOverlap sameSequence
F.Tardivo, A. Dovier, A. Formisano, L. Michel, E.Pontelli	Constraint Propagation on GPU: A Case Study for the Cumulative Constraint	[353]	2023	CPAIOR	18	MiniCPP MiniZinc	PSPLib BL Pack	y	-	RCPSP	cumulative

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Authors	Title	Cite	Year	Conference	Pages	CP System	Data Avail	Code Avail	Based On	Classification	Constraints
R. Boudreault, V. Simard, D. Lafond, C. Quimper	A Constraint Programming Approach to Ship Re-fit Project Scheduling	[67]	2022	CP	16	MiniZinc Chuffed		y	-	RCPSP	cumulative
L. Popovic, A. Côté, M. Gaha, F. Nguewouo, Q. Cappart	Scheduling the Equipment Maintenance of an Electric Power Transmission Network Using Constraint Programming	[306]	2022	CP	15	CP Opt	n	n	-	TMS	alwaysIn noOverlap
F. Winter, S. Meiswinkel, N. Musliu, D. Walkiewicz	Modeling and Solving Parallel Machine Scheduling with Contamination Constraints in the Agricultural Industry	[395]	2022	CP	18	Cplex Gurobi CP Opt Sim Anneal	y	y	-	PMSP	alternative noOverlap
E. Armstrong, M. Garraffa, B. O'Sullivan, H. Simonis	A Two-Phase Hybrid Approach for the Hybrid Flexible Flowshop with Transportation Times	[14]	2022	CPAIOR	13	CP Opt	(y)	-	[13]	$HFFm tt C_m$	endBeforeStart alternative cumulative noOverlap
M. Geitz, C. Grozea, W. Steigerwald, R. Stöhr, A. Wolf	Solving the Extended Job Shop Scheduling Problem with AGVs - Classical and Quantum Approaches	[136]	2022	CPAIOR	18	firstCS QUBO	y	n	-	JSSP	
Y. Ouellet, C. Quimper	A MinCumulative Resource Constraint	[290]	2022	CPAIOR	17	Choco	y	y	-		cumulative minCumulative
E. Armstrong, M. Garraffa, B. O'Sullivan, H. Simonis	The Hybrid Flexible Flowshop with Transportation Times	[13]	2021	CP	18	MiniZinc Chuffed CP Opt SICStus	y	y	-	$HFFm tt C_m$	cumulative diffn table
V. Antuori, E. Hebrard, M. Huguet, S. Essoudaigui, A. Nguyen	Combining Monte Carlo Tree Search and Depth First Search Methods for a Car Manufacturing Workshop Scheduling Problem	[11]	2021	CP	16	MCTS	y	y	[]		
B. Kovács, P. Tassel, W. Kohlenbrein, P. Schrott-Kostwein, M. Gebser	Utilizing Constraint Optimization for Industrial Machine Workload Balancing	[214]	2021	CP	17	Gurobi Cplex CP Opt	y	y	-		cumulative
M. Lackner, C. Mrkvicka, N. Musliu, D. Walkiewicz, F. Winter	Minimizing Cumulative Batch Processing Time for an Industrial Oven Scheduling Problem	[222]	2021	CP	18	OR-Tools CP Opt Chuffed OR-Tools Gurobi OPL	y	y		OSP	
A. Hill, J. Ticktin, T. Vossen	A Computational Study of Constraint Programming Approaches for Resource-Constrained Project Scheduling with Autonomous Learning Effects	[174]	2021	CPAIOR	16	CP Opt	PSPlib	n	-	RCPSP	cumulative alternative endBeforeStart
C. Klanke, D. Bleidorn, V. Yfantis, S.Engell	Combining Constraint Programming and Temporal Decomposition Approaches - Scheduling of an Industrial Formulation Plant	[202]	2021	CPAIOR	16	OR-Tools	n	n	-		cumulative circuit noOverlap
C. Hanen, A. Kordon, T. Pedersen	Two Deadline Reduction Algorithms for Scheduling Dependent Tasks on Parallel Processors	[158]	2021	CPAIOR	17	Python	ref	n	-	$P prec, r_i, d_i $	-
M. Åstrand, M. Johansson, H.Feyzmahdavian	Short-Term Scheduling of Production Fleets in Underground Mines Using CP-Based LNS	[20]	2021	CPAIOR	18	Gecode	ref generated	n	-		-
T. Geibinger, L. Kletzander, M. Krainz, F. Mischek, N. Musliu, F. Winter	Physician Scheduling During a Pandemic	[132]	2021	CPAIOR	10	MiniZinc	y	n	-		nvalue
M. Nattaf, A. Malapert	Filtering Rules for Flow Time Minimization in a Parallel Machine Scheduling Problem	[277]	2020	CP	16	Cplex CP Opt	-	-	[]	PTC	alternative noOverlap
L. Groleaz, S. Ndiaye, C. Solnon	Solving the Group Cumulative Scheduling Problem with CPO and ACO	[153]	2020	CP	17	CP Opt ACO	-	-	[153]	GCSP	group cumulative
A. Mercier-Aubin, J. Gaudreault, C. Quimper	Leveraging Constraint Scheduling: A Case Study to the Textile Industry	[262]	2020	CPAIOR	13	MiniZinc Chuffed	a	a	-		circuit cumulative

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Authors	Title	Cite	Year	Conference	Pages	CP System	Data Avail	Code Avail	Based On	Classification	Constraints
T. Tang, C. Beck	CP and Hybrid Models for Two-Stage Batching and Scheduling	[351]	2020	CPAIOR	16	Cplex CP Opt Gecode	n	n	-	2BPHFSP	span alwaysIn circuit alldifferent
J. Wessén, M. Carlsson, C. Schulte	Scheduling of Dual-Arm Multi-tool Assembly Robots and Workspace Layout Optimization	[393]	2020	CPAIOR	10		n	n	-		noOverlap
G. Col, E. Teppan	Industrial Size Job Shop Scheduling Tackled by Present Day CP Solvers	[83]	2019	CP	17	CP Opt OR-Tools Mini-Zinc Gecode Cplex	y	y	-	JSSP	
S. Frimodig, C. Schulte	Models for Radiation Therapy Patient Scheduling	[120]	2019	CP	17		n	n	-		cumulative regular bin-packing
C. Galleguillos, Z. Kiziltan, A. Sîrbu, Ö. Babaoglu	Constraint Programming-Based Job Dispatching for Modern HPC Applications	[123]	2019	CP	18	OR-Tools		y		on-line dispatch	
S. Murín, H. Rudová	Scheduling of Mobile Robots Using Constraint Programming	[272]	2019	CP	16	CP Opt Cplex OPT.	y	y		JSPT	endBeforeStart alternative noOverlap
A. Tesch	Improving Energetic Propagations for Cumulative Scheduling	[359]	2018	CP	17						
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	[160]	2018	CP	18						
M. Bofill, J. Coll, J. Suy, M. Villaret	An Efficient SMT Approach to Solve MR-CPSP/max Instances with Tight Constraints on Resources	[57]	2017	CP	9						
C. Pralet	An Incomplete Constraint-Based System for Scheduling with Renewable Resources	[309]	2017	CP	19						
K. Young, T. Feydy, A. Schutt	Constraint Programming Applied to the Multi-Skill Project Scheduling Problem	[402]	2017	CP	10						
A. Goldwaser, A. Schutt	Optimal Torpedo Scheduling	[145]	2017	CP	16						
T. Liu, R. Di Cosmo, M. Gabbrielli, J. Mauro	NightSplitter: A Scheduling Tool to Optimize (Sub)group Activities	[238]	2017	CP	17						
M. Mossige, A. Gotlieb, H. Spieker, H. Meling, M. Carlsson	Time-Aware Test Case Execution Scheduling for Cyber-Physical Systems	[268]	2017	CP	18						
J. Hooker	Job Sequencing Bounds from Decision Diagrams	[180]	2017	CP	14						
A. Bonfietti, A. Zanarini, M. Lombardi, M. Milano	The Multirate Resource Constraint	[64]	2016	CP	17						
A. Schutt, P. Stuckey	Explaining Producer/Consumer Constraints	[332]	2016	CP	17						
R. Szeredi, A. Schutt	Modelling and Solving Multi-mode Resource-Constrained Project Scheduling	[350]	2016	CP	10						
A. Tesch	A Nearly Exact Propagation Algorithm for Energetic Reasoning in $\mathcal{O}(n^2 \log n)$	[358]	2016	CP	26						
S. Van Cauwelaert, C. Dejemeppe, J. Monette, P. Schaus	Efficient Filtering for the Unary Resource with Family-Based Transition Times	[76]	2016	CP	16						
K. Booth, G. Nejat, C. Beck	A Constraint Programming Approach to Multi-Robot Task Allocation and Scheduling in Retirement Homes	[65]	2016	CP	17						
K. Giles, W. van Hoeve	Solving a Supply-Delivery Scheduling Problem with Constraint Programming	[139]	2016	CP	16						
B. Lim, H. Hijazi, S. Thiébaux, M. van den Briel	Online HVAC-Aware Occupancy Scheduling with Adaptive Temperature Control	[233]	2016	CP	18						
C. Dejemeppe, S. Van Cauwelaert, P. Schaus	The Unary Resource with Transition Times	[92]	2015	CP	16						

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S. Gay, R. Hartert, C. Lecoutre, P. Schaus	Conflict Ordering Search for Scheduling Problems	[127]	2015	CP	9						
S. Gay, R. Hartert, P. Schaus	Simple and Scalable Time-Table Filtering for the Cumulative Constraint	[128]	2015	CP	9						
S. Kreter, A. Schutt, P. Stuckey	Modeling and Solving Project Scheduling with Calendars	[215]	2015	CP	17						
M. Lombardi, A. Bonfietti, M. Milano	Deterministic Estimation of the Expected Makespan of a POS Under Duration Uncertainty	[240]	2015	CP	16						
M. Siala, C. Artigues, E. Hebrard	Two Clause Learning Approaches for Disjunctive Scheduling	[339]	2015	CP	10						
C. Even, A. Schutt, P. Van Hentenryck	A Constraint Programming Approach for Non-preemptive Evacuation Scheduling	[110]	2015	CP	18						
S. Murphy, O. Manzano, K. Brown	Design and Evaluation of a Constraint-Based Energy Saving and Scheduling Recommender System	[273]	2015	CP	17						
C. Pralet, S. Lemaï-Chenevier, J. Jaubert	Scheduling Running Modes of Satellite Instruments Using Constraint-Based Local Search	[310]	2015	CP	16						
A. Derrien, T. Petit	A New Characterization of Relevant Intervals for Energetic Reasoning	[97]	2014	CP	9						
A. Derrien, T. Petit, S. Zampelli	A Declarative Paradigm for Robust Cumulative Scheduling	[98]	2014	CP	9						
V. Houndji, P. Schaus, L. Wolsey, Y. Deville	The StockingCost Constraint	[182]	2014	CP	16						
A. Bartolini, A. Borghesi, T. Bridi, M. Lombardi, M. Milano	Proactive Workload Dispatching on the EU-RORA Supercomputer	[35]	2014	CP	16						
M. Bofill, J. Espasa, M. Garcia, M. Palahí, J. Suy, M. Villaret	Scheduling B2B Meetings	[58]	2014	CP	16						
S. Di Alesio, S. Nejati, L. Briand, A. Gotlieb	Worst-Case Scheduling of Software Tasks - A Constraint Optimization Model to Support Performance Testing	[99]	2014	CP	18						
S. Gay, P. Schaus, V. De Smedt	Continuous Casting Scheduling with Constraint Programming	[130]	2014	CP	15						
P. Ouellet, C. Quimper	Time-Table Extended-Edge-Finding for the Cumulative Constraint	[288]	2013	CP	16						
A. Schutt, T. Feydy, P. Stuckey	Scheduling Optional Tasks with Explanation	[329]	2013	CP	17						
G. Simonin, C. Artigues, E. Hebrard, P. Lopez	Scheduling Scientific Experiments on the Rosetta/Philae Mission	[340]	2012	CP	15	MOST Ilog Scheduler	n	n	-		cumulative dataTransfer
A. Letort, N. Beldiceanu, M. Carlsson	A Scalable Sweep Algorithm for the cumulative Constraint	[227]	2012	CP							
T. Serra, G. Nishioka, F. Marcellino	The Offshore Resources Scheduling Problem: Detailing a Constraint Programming Approach	[334]	2012	CP							
G. Ifrim, B. O'Sullivan, H. Simonis	Properties of Energy-Price Forecasts for Scheduling	[184]	2012	CP							
F. Hermenier, S. Demassey, X. Lorca	Bin Repacking Scheduling in Virtualized Data-centers	[173]	2011	CP							
A. Bonfietti, M. Lombardi, L. Benini, M. Milano	A Constraint Based Approach to Cyclic RCPSP	[61]	2011	CP							
A. De Clercq, T. Petit, N. Beldiceanu, N. Jussien	Filtering Algorithms for Discrete Cumulative Problems with Overloads of Resource	[81]	2011	CP							

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D. Grimes, E. Hebrard	Models and Strategies for Variants of the Job Shop Scheduling Problem	[149]	2011	CP							
R. Kameugne, L. Fotso, J. Scott, Y. Ngo-Kateu	A Quadratic Edge-Finding Filtering Algorithm for Cumulative Resource Constraints	[193]	2011	CP							
M. Lombardi, M. Milano	Constraint Based Scheduling to Deal with Uncertain Durations and Self-Timed Execution	[243]	2010	CP							
A. Schutt, A. Wolf	A New $O(n^2 \log n)$ Not-First/Not-Last Pruning Algorithm for Cumulative Resource Constraints	[333]	2010	CP							
P. Baptiste	Constraint-Based Schedulers, Do They Really Work?	[25]	2009	CP							
D. Grimes, E. Hebrard, A. Malapert	Closing the Open Shop: Contradicting Conventional Wisdom	[150]	2009	CP							
M. Lombardi, M. Milano	A Precedence Constraint Posting Approach for the RCPSp with Time Lags and Variable Durations	[242]	2009	CP							
A. Schutt, T. Feydy, P. Stuckey, M. Wallace	Why Cumulative Decomposition Is Not as Bad as It Sounds	[330]	2009	CP							
P. Vilfm	Edge Finding Filtering Algorithm for Discrete Cumulative Resources in $O(kn \log n)$	[379]	2009	CP							
A. Moura, C. de Souza, A. Ciré, T. Lopes	Planning and Scheduling the Operation of a Very Large Oil Pipeline Network	[270]	2008	CP							
A. Davenport, J. Kalagnanam, C. Reddy, S. Siegel, J. Hou	An Application of Constraint Programming to Generating Detailed Operations Schedules for Steel Manufacturing	[88]	2007	CP							
A. Gargani, P. Refalo	An Efficient Model and Strategy for the Steel Mill Slab Design Problem	[124]	2007	CP							
R. van der Krogt, J. Little, K. Pulliam, S. Hanhnammi, Y. Jin	Scheduling for Cellular Manufacturing	[371]	2007	CP							
M. Khemmoudj, M. Porcheron, H. Benaceur	When Constraint Programming and Local Search Solve the Scheduling Problem of Electricité de France Nuclear Power Plant Outages	[200]	2006	CP							
K. Artouchine, P. Baptiste	Inter-distance Constraint: An Extension of the All-Different Constraint for Scheduling Equal Length Jobs	[18]	2005	CP							
J. Fortin, P. Zielinski, D. Dubois, H. Fargier	Interval Analysis in Scheduling	[117]	2005	CP							
J. Hooker	Planning and Scheduling to Minimize Tardiness	[178]	2005	CP							
B. Dilkina, L. Duan, W. Havens	Extending Systematic Local Search for Job Shop Scheduling Problems	[100]	2005	CP							
M. Abril, M. Salido, F. Barber	Distributed Constraints for Large-Scale Scheduling Problems	[3]	2005	CP							
T. Carchrae, C. Beck, E. Freuder	Methods to Learn Abstract Scheduling Models	[74]	2005	CP							
C. Wu, K. Brown, C. Beck	Scheduling with Uncertain Start Dates	[400]	2005	CP							
E. Hebrard, P. Tyler, T. Walsh	Computing Super-Schedules	[161]	2005	CP							
A. Kovács, P. Egri, T. Kis, J. Váncza	Proterv-II: An Integrated Production Planning and Scheduling System	[210]	2005	CP							
P. Vilfm, R. Barták, O. Cepek	Unary Resource Constraint with Optional Activities	[382]	2004	CP							
J. Hooker	A Hybrid Method for Planning and Scheduling	[176]	2004	CP							

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A. Kovács, J. Váncza	Completable Partial Solutions in Constraint Programming and Constraint-Based Scheduling	[212]	2004	CP							
A. Lim, B. Rodrigues, Z. Xu	Solving the Crane Scheduling Problem Using Intelligent Search Schemes	[232]	2004	CP							
A. Oddi, N. Policella, A. Cesta, G. Cortellessa	Generating High Quality Schedules for a Spacecraft Memory Downlink Problem	[287]	2003	CP							
S. Kumar	Incremental Computation of Resource-Envelopes in Producer-Consumer Models	[218]	2003	CP							
A. Wolf	Pruning while Sweeping over Task Intervals	[396]	2003	CP							
E. Danna, L. Perron	Structured vs. Unstructured Large Neighborhood Search: A Case Study on Job-Shop Scheduling Problems with Earliness and Tardiness Costs	[85]	2003	CP							
P. Vilím	Computing Explanations for Global Scheduling Constraints	[376]	2003	CP							
N. Beldiceanu, M. Carlson	A New Multi-resource cumulatives Constraint with Negative Heights	[42]	2002	CP							
N. Muscettola	Computing the Envelope for Stepwise-Constant Resource Allocations	[274]	2002	CP							
O. Kamarainen, H. El Sakkout	Local Probing Applied to Scheduling	[189]	2002	CP							
R. Barták	Visopt ShopFloor: On the Edge of Planning and Scheduling	[33]	2002	CP							
J. Hooker, H. Yan	A Relaxation of the Cumulative Constraint	[181]	2002	CP							
A. Elkhayari, C. Guéret, N. Jussien	Conflict-Based Repair Techniques for Solving Dynamic Scheduling Problems	[106]	2002	CP							
P. Vilím	Batch Processing with Sequence Dependent Setup Times	[375]	2002	CP							
G. Verfaillie, M. Lemaître	Selecting and Scheduling Observations for Agile Satellites: Some Lessons from the Constraint Reasoning Community Point of View	[374]	2001	CP							
J. Váncza, A. Márkus	A Constraint Engine for Manufacturing Process Planning	[373]	2001	CP							
O. Angelsmark, P. Jonsson	Some Observations on Durations, Scheduling and Allen's Algebra	[10]	2000	CP							
R. Rodosek, M. Wallace	A Generic Model and Hybrid Algorithm for Hoist Scheduling Problems	[319]	1998	CP							
A. Cesta, A. Oddi, S. Smith	Scheduling Multi-capacitated Resources Under Complex Temporal Constraints	[77]	1998	CP							
D. Frost, R. Dechter	Optimizing with Constraints: A Case Study in Scheduling Maintenance of Electric Power Units	[122]	1998	CP							
Y. Caseau	Using Constraint Propagation for Complex Scheduling Problems: Managing Size, Complex Resources and Travel	[75]	1997	CP							
P. Baptiste, C. Le Pape	Constraint Propagation and Decomposition Techniques for Highly Disjunctive and Highly Cumulative Project Scheduling Problems	[28]	1997	CP							
C. Beck, A. Davenport, M. Fox	Five Pitfalls of Empirical Scheduling Research	[37]	1997	CP							
Y. Colombani	Constraint Programming: an Efficient and Practical Approach to Solving the Job-Shop Problem	[84]	1996	CP							
J. Zhou	A Constraint Program for Solving the Job-Shop Problem	[413]	1996	CP							
H. Simonis, T. Cornelissens	Modelling Producer/Consumer Constraints	[344]	1995	CP							

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H. Goltz	Reducing Domains for Search in CLP(FD) and Its Application to Job-Shop Scheduling	[146]	1995	CP							
H. Simonis	The CHIP System and Its Applications	[342]	1995	CP							
J. Puget	Applications of Constraint Programming	[312]	1995	CP							
Touraivane	Constraint Programming and Industrial Applications	[365]	1995	CP							
T. Geibinger, F. Mischek, N. Musliu	Investigating Constraint Programming for Real World Industrial Test Laboratory Scheduling	[134]	2019	CPAIOR	16						
A. Malapert, M. Nattaf	A New CP-Approach for a Parallel Machine Scheduling Problem with Time Constraints on Machine Qualifications	[253]	2019	CPAIOR	17						
P. van den Bogaerd, M. de Weerd	Lower Bounds for Uniform Machine Scheduling Using Decision Diagrams	[370]	2019	CPAIOR	16						
M. Yang, A. Schutt, P. Stuckey	Time Table Edge Finding with Energy Variables	[401]	2019	CPAIOR	10						
O. Benedikt, P. Sucha, I. Módos, M. Vlk, Z. Hanzálek	Energy-Aware Production Scheduling with Power-Saving Modes	[49]	2018	CPAIOR	10						
E. Demirovic, P. Stuckey	Constraint Programming for High School Timetabling: A Scheduling-Based Model with Hot Starts	[95]	2018	CPAIOR	18						
R. Kameugne, S. Fetgo, V. Gingras, Y. Ouellet, C. Quimper	Horizontally Elastic Not-First/Not-Last Filtering Algorithm for Cumulative Resource Constraint	[191]	2018	CPAIOR	17						
P. Laborie	An Update on the Comparison of MIP, CP and Hybrid Approaches for Mixed Resource Allocation and Scheduling	[220]	2018	CPAIOR	9						
Y. Ouellet, C. Quimper	A $O(n \log^2 n)$ Checker and $O(n^2 \log n)$ Filtering Algorithm for the Energetic Reasoning	[289]	2018	CPAIOR	18						
M. Åstrand, M. Johansson, A. Zanarini	Fleet Scheduling in Underground Mines Using Constraint Programming	[21]	2018	CPAIOR	9						
Q. Cappart, P. Schaus	Rescheduling Railway Traffic on Real Time Situations Using Time-Interval Variables	[73]	2017	CPAIOR	16						
L. Kletzander, N. Musliu	A Multi-stage Simulated Annealing Algorithm for the Torpedo Scheduling Problem	[203]	2017	CPAIOR	15						
M. Gelain, M. Pini, F. Rossi, K. Venable, T. Walsh	A Local Search Approach for Incomplete Soft Constraint Problems: Experimental Results on Meeting Scheduling Problems	[137]	2017	CPAIOR	16						
D. Fontaine, L. Michel, P. Van Hentenryck	Parallel Composition of Scheduling Solvers	[116]	2016	CPAIOR	11						
A. Heching, J. Hooker	Scheduling Home Hospice Care with Logic-Based Benders Decomposition	[162]	2016	CPAIOR	11						
G. Madi-Wamba, N. Beldiceanu	The TaskIntersection Constraint	[250]	2016	CPAIOR	16						
P. Aguiar-Melgarejo, P. Laborie, C. Solnon	A Time-Dependent No-Overlap Constraint: Application to Urban Delivery Problems	[6]	2015	CPAIOR	17						
M. Boffill, M. Garcia, J. Suy, M. Villaret	MaxSAT-Based Scheduling of B2B Meetings	[59]	2015	CPAIOR	9						
C. Burt, N. Lipovetzky, A. Pearce, P. Stuckey	Scheduling with Fixed Maintenance, Shared Resources and Nonlinear Feedrate Constraints: A Mine Planning Case Study	[70]	2015	CPAIOR	17						
S. Gay, R. Hartert, P. Schaus	Time-Table Disjunctive Reasoning for the Cumulative Constraint	[129]	2015	CPAIOR	16						

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B. Lim, M. van den Briel, S. Thiébaux, R. Bent, S. Backhaus	Large Neighborhood Search for Energy Aware Meeting Scheduling in Smart Buildings	[234]	2015	CPAIOR	15						
G. Pesant, G. Rix, L. Rousseau	A Comparative Study of MIP and CP Formulations for the B2B Scheduling Optimization Problem	[300]	2015	CPAIOR	16						
P. Vilím, P. Laborie, P. Shaw	Failure-Directed Search for Constraint-Based Scheduling	[384]	2015	CPAIOR	17						
S. Kosch, C. Beck	A New MIP Model for Parallel-Batch Scheduling with Non-identical Job Sizes	[207]	2014	CPAIOR	16						
A. Bonfietti, M. Lombardi, M. Milano	Disregarding Duration Uncertainty in Partial Order Schedules? Yes, We Can!	[63]	2014	CPAIOR	16						
C. Dejemeppe, Y. Deville	Continuously Degrading Resource and Interval Dependent Activity Durations in Nuclear Medicine Patient Scheduling	[93]	2014	CPAIOR	9						
C. Bessiere, E. Hebrard, M. Ménard, C. Quimper, T. Walsh	Buffered Resource Constraint: Algorithms and Complexity	[53]	2014	CPAIOR	16						
S. Doulabi, L. Rousseau, G. Pesant	A Constraint Programming-Based Column Generation Approach for Operating Room Planning and Scheduling	[102]	2014	CPAIOR	9						
S. Heinz, W. Ku, C. Beck	Recent Improvements Using Constraint Integer Programming for Resource Allocation and Scheduling	[164]	2013	CPAIOR	16						
E. Kelareva, K. Tierney, P. Kilby	CP Methods for Scheduling and Routing with Time-Dependent Task Costs	[196]	2013	CPAIOR	17	MiniZinc CPX G12FD SICStus Choco	ref	-	-	LSFRP BPCTOP	alldifferent alldifferentExcept0
A. Letort, M. Carlsson, N. Beldiceanu	A Synchronized Sweep Algorithm for the k -dimensional cumulative Constraint	[228]	2013	CPAIOR	16		PSplib	-	-	RCPSP	cumulative kDimensionalCumulative
A. Schutt, T. Feydy, P. Stuckey	Explaining Time-Table-Edge-Finding Propagation for the Cumulative Resource Constraint	[328]	2013	CPAIOR	17	Mercury G12	PSplib AT BL Pack KSD15D PackD dead	-	-	RCPSP	cumulative
A. A. Ciré, E. Coban, J. Hooker	Mixed Integer Programming vs. Logic-Based Benders Decomposition for Planning and Scheduling	[80]	2013	CPAIOR	7	CP Opt Cplex		n	-		
H. Gu, A. Schutt, P. Stuckey	A Lagrangian Relaxation Based Forward-Backward Improvement Heuristic for Maximising the Net Present Value of Resource-Constrained Projects	[155]	2013	CPAIOR	7	Chuffed	dead		-	RCPSPDC	cumulative maxNVPPProp
J. Billaut, E. Hebrard, P. Lopez	Complete Characterization of Near-Optimal Sequences for the Two-Machine Flow Shop Scheduling Problem	[54]	2012	CPAIOR							
A. Bonfietti, M. Lombardi, L. Benini, M. Milano	Global Cyclic Cumulative Constraint	[62]	2012	CPAIOR							
S. Heinz, C. Beck	Reconsidering Mixed Integer Programming and MIP-Based Hybrids for Scheduling	[163]	2012	CPAIOR							
A. Rendl, M. Prandtstetter, G. Hiermann, J. Puchinger, G. Raidl	Hybrid Heuristics for Multimodal Homecare Scheduling	[317]	2012	CPAIOR							
A. Schutt, G. Chu, P. Stuckey, M. Wallace	Maximising the Net Present Value for Resource-Constrained Project Scheduling	[327]	2012	CPAIOR							

Table 1: List of Conference Papers

Authors	Title	Cite	Year	Conference	Pages	CP System	Data Avail	Code Avail	Based On	Classification	Constraints
N. Chapados, M. Joliveau, L. Rousseau	Retail Store Workforce Scheduling by Expected Operating Income Maximization	[78]	2011	CPAIOR							
E. Edis, C. Oguz	Parallel Machine Scheduling with Additional Resources: A Lagrangian-Based Constraint Programming Approach	[104]	2011	CPAIOR							
A. Lahimer, P. Lopez, M. Haouari	Climbing Depth-Bounded Adjacent Discrepancy Search for Solving Hybrid Flow Shop Scheduling Problems with Multiprocessor Tasks	[224]	2011	CPAIOR							
M. Lombardi, A. Bonfietti, M. Milano, L. Benini	Precedence Constraint Posting for Cyclic Scheduling Problems	[241]	2011	CPAIOR							
P. Vilím	Timetable Edge Finding Filtering Algorithm for Discrete Cumulative Resources	[381]	2011	CPAIOR							
E. Coban, J. Hooker	Single-Facility Scheduling over Long Time Horizons by Logic-Based Benders Decomposition	[82]	2010	CPAIOR							
A. Davenport	Integrated Maintenance Scheduling for Semiconductor Manufacturing	[87]	2010	CPAIOR							
D. Grimes, E. Hebrard	Job Shop Scheduling with Setup Times and Maximal Time-Lags: A Simple Constraint Programming Approach	[148]	2010	CPAIOR							
T. Berthold, S. Heinz, M. Lübbecke, R. Möhring, J. Schulz	A Constraint Integer Programming Approach for Resource-Constrained Project Scheduling	[52]	2010	CPAIOR							
P. Laborie	IBM ILOG CP Optimizer for Detailed Scheduling Illustrated on Three Problems	[219]	2009	CPAIOR							
P. Vilím	Max Energy Filtering Algorithm for Discrete Cumulative Resources	[380]	2009	CPAIOR							
R. Acuna-Agost, P. Michelon, D. Feillet, S. Gueye	Constraint Programming and Mixed Integer Linear Programming for Rescheduling Trains under Disrupted Operations	[4]	2009	CPAIOR							
N. Beldiceanu, M. Carlson, E. Poder	New Filtering for the cumulative Constraint in the Context of Non-Overlapping Rectangles	[44]	2008	CPAIOR							
G. Dooms, P. Van Hentenryck	Gap Reduction Techniques for Online Stochastic Project Scheduling	[101]	2008	CPAIOR							
J. Watson, C. Beck	A Hybrid Constraint Programming / Local Search Approach to the Job-Shop Scheduling Problem	[392]	2008	CPAIOR							
A. Barlatt, A. Cohn, O. Gusikhin	A Hybrid Approach for Solving Shift-Selection and Task-Sequencing Problems	[31]	2008	CPAIOR							
H. Lau, K. Lye, V. Nguyen	A Combinatorial Auction Framework for Solving Decentralized Scheduling Problems (Extended Abstract)	[225]	2008	CPAIOR							
P. Van Hentenryck, L. Michel	The Steel Mill Slab Design Problem Revisited	[172]	2008	CPAIOR							
A. Kéri, T. Kis	Computing Tight Time Windows for RCPSP-WET with the Primal-Dual Method	[198]	2007	CPAIOR							
J. Monette, Y. Deville, P. Dupont	A Position-Based Propagator for the Open-Shop Problem	[264]	2007	CPAIOR							
N. Beldiceanu, E. Poder	A Continuous Multi-resources <i>cumulative</i> Constraint with Positive-Negative Resource Consumption-Production	[45]	2007	CPAIOR							
R. Rossi, A. Tarim, B. Hnich, S. Prestwich	Replenishment Planning for Stochastic Inventory Systems with Shortage Cost	[320]	2007	CPAIOR							

Table 1: List of Conference Papers

Authors	Title	Cite	Year	Conference	Pages	CP System	Data Avail	Code Avail	Based On	Classification	Constraints
J. van den Akker, G. Diepen, J. Hoogeveen	A Column Generation Based Destructive Lower Bound for Resource Constrained Project Scheduling Problems	[369]	2007	CPAIOR							
L. Benini, D. Bertozzi, A. Guerri, M. Milano	Allocation, Scheduling and Voltage Scaling on Energy Aware MPSoCs	[50]	2006	CPAIOR							
A. Kovács, J. Váncza	Progressive Solutions: A Simple but Efficient Dominance Rule for Practical RCPSP	[213]	2006	CPAIOR							
Y. Chu, Q. Xia	A Hybrid Algorithm for a Class of Resource Constrained Scheduling Problems	[79]	2005	CPAIOR							
J. Frank, E. Kürklü	Mixed Discrete and Continuous Algorithms for Scheduling Airborne Astronomy Observations	[118]	2005	CPAIOR							
P. Vilím	Computing Explanations for the Unary Resource Constraint	[378]	2005	CPAIOR							
C. Maravelias, I. Grossmann	Using MILP and CP for the Scheduling of Batch Chemical Processes	[256]	2004	CPAIOR							
C. Artigues, S. Belmokhtar, D. Feillet	A New Exact Solution Algorithm for the Job Shop Problem with Sequence-Dependent Setup Times	[16]	2004	CPAIOR							
P. Van Hentenryck, L. Michel	Scheduling Abstractions for Local Search	[171]	2004	CPAIOR							
P. Vilím	O(n log n) Filtering Algorithms for Unary Resource Constraint	[377]	2004	CPAIOR							
R. Sadykov	A Hybrid Branch-And-Cut Algorithm for the One-Machine Scheduling Problem	[322]	2004	CPAIOR							
A. Bit-Monnot	Enhancing Hybrid CP-SAT Search for Disjunctive Scheduling	[55]	2023	ECAI	8	ARIES CP Opt OR-Tools Mistral FaCiLe	y	y	-	JSSP OSSP	-
R. Wang, N. Barnier	Dynamic All-Different and Maximal Cliques Constraints for Fixed Job Scheduling	[390]	2023	ICTAI	8	FaCiLe	(y)	n	[389]	FJS	-
R. Wang, N. Barnier	Global Propagation of Transition Cost for Fixed Job Scheduling	[389]	2020	ECAI	8	FaCiLe	y	n	-	FJS	-

3 Journal Articles

Table 2: List of Journal Articles

Authors	Title	Cite	Year	Journal	Pages	CP System	Data Avail	Code Avail	Based On	Classification	Constraints
B. Prata, L. Abreu, M. Nagano	Applications of constraint programming in production scheduling problems: A descriptive bibliometric analysis	[311]	2023	Results in Control and Optimization	17	-	-	-	-	survey	-
M. Lackner, C. Mrkvicka, N. Musliu, D. Walkiewicz, F. Winter	Exact methods for the Oven Scheduling Problem	[223]	2023	Constraints	42	MiniZinc OPL	DZN JSON	y	[222]	OSP	alternative noOverlap forbidExtent
J. Caballero	Scheduling through logic-based tools	[71]	2023	Constraints	1	SAT	-	-	PhD Thesis	RCPSP	-

Table 2: List of Journal Articles

Authors	Title	Cite	Year	Journal	Pages	CP System	Data Avail	Code Avail	Based On	Classification	Constraints
L. Campeau, M. Gamache	Short- and medium-term optimization of underground mine planning using constraint programming	[72]	2022	Constraints	18	CP Opt	ref	n			pulse alwaysIn endBeforeStart noOverlap alldifferent inverse
J. Koehler, J. Bürgler, U. Fontana, E. Fux, F. 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	[204]	2021	Constraints	51	CP Opt OR-Tools Chuffed Cplex Gurobi Z3 OptiMathSat	DZN	y	-	CTW	
O. Benedikt, I. Módos, Z. Hanzálek	Power of pre-processing: production scheduling with variable energy pricing and power-saving states	[48]	2020	Constraints	19	CP Opt Gurobi	JSON	y			
M. Wallace, N. Yorke-Smith	A new constraint programming model and solving for the cyclic hoist scheduling problem	[388]	2020	Constraints	19	MiniZinc	DZN	y		CHSP	
P. Laborie, J. Rogerie, P. Shaw, P. Vilim	IBM ILOG CP optimizer for scheduling - 20+ years of scheduling with constraints at IBM/ILOG	[221]	2018	Constraints	41	OP Opt	-	-	-	-	-
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	[112]	2018	Constraints	22	Choco	(y)	n		RCPSP	disjunctive cumulative
S. Kreter, A. Schutt, P. Stuckey	Using constraint programming for solving RCPSP/max-cal	[216]	2017	Constraints	31	MiniZinc Chuffed Cplex	dead		CP 2015	RCPSP	cumulative cumulativeCalendar
M. Nattaf, C. Artigues, P. Lopez	Cumulative scheduling with variable task profiles and concave piecewise linear processing rate functions	[276]	2017	Constraints	18	Cplex	n	n	-	CECSP	-
G. Simonin, C. Artigues, E. Hebrard, P. Lopez	Scheduling scientific experiments for comet exploration	[341]	2015	Constraints	23	MOST Ilog Scheduler	n	n	[340]		cumulative dataTransfer
A. Letort, M. Carlsson, N. Beldiceanu	Synchronized sweep algorithms for scalable scheduling constraints	[229]	2015	Constraints	52	Choco SICStus	dead	-	-	-	cumulative dimCumulative dimCumulativePrecedences
M. Nattaf, C. Artigues, P. Lopez	A hybrid exact method for a scheduling problem with a continuous resource and energy constraints	[275]	2015	Constraints	21	Cplex	n	n		CSCSP	
M. Siala	Search, propagation, and learning in sequencing and scheduling problems	[338]	2015	Constraints	2	-	-	-	PhD Thesis		
R. Kameugne	Propagation techniques of resource constraint for cumulative scheduling	[190]	2015	Constraints	2	-	-	-	PhD Thesis	RCPSP	
R. Kameugne, L. Fotso, J. Scott, Y. Ngo-Kateu	A quadratic edge-finding filtering algorithm for cumulative resource constraints	[194]	2014	Constraints	27	Gecode	y		CP 2011	CuSP	cumulative
S. Heinz, J. Schulz, C. Beck	Using dual presolving reductions to reformulate cumulative constraints	[167]	2013	Constraints	36	Cplex SCIP	ref	-	-	RCPSP RCPSP/max	cumulative
C. Öztürk, S. Tunali, B. Hnich, A. Ornek	Balancing and scheduling of flexible mixed model assembly lines	[292]	2013	Constraints	36	Ilog Solver Ilog Scheduler Cplex	y	-	-	SBSFMMAL	alldifferent disjunctive
S. Heinz, T. Schlechte, R. Stephan, M. Winkler	Solving steel mill slab design problems	[165]	2012	Constraints	12		Cplex	dead	-	SMSDP	-
M. Lombardi, M. Milano	Optimal methods for resource allocation and scheduling: a cross-disciplinary survey	[244]	2012	Constraints	35	-	-	-	-	survey	-
K. Limtanyakul, U. Schwiigelshohn	Improvements of constraint programming and hybrid methods for scheduling of tests on vehicle prototypes	[236]	2012	Constraints	32	Cplex Ilog Scheduler	dead	-	-		
A. Kovács, C. Beck	A global constraint for total weighted completion time for unary resources	[209]	2011	Constraints	24	Ilog Scheduler	n	n	-		Completion

Table 2: List of Journal Articles

Authors	Title	Cite	Year	Journal	Pages	CP System	Data Avail	Code Avail	Based On	Classification	Constraints
P. Schaus, P. Van Hen- tenryck, J. Monette, C. Coffrin, L. Michel, Y. Dewille	Solving Steel Mill Slab Problems with constraint- based techniques: CP, LNS, and CBLS	[325]	2011	Constraints	23	Comet	dead			SMSDP	
R. Barták, M. Salido	Constraint satisfaction for planning and schedul- ing problems	[34]	2011	Constraints	5	-	-	-		survey	
A. Schutt, T. Feydy, P. Stuckey, M. Wallace	Explaining the cumulative propagator	[331]	2011	Constraints	33	MiniZinc	PSPLib	-	-	RCPSP	cumulative
A. Kovács, T. Kis	Constraint programming approach to a bilevel scheduling problem	[211]	2011	Constraints	24	Ilog Solver	n	n	-	Bilevel Opt	
T. Lopes, A. Ciré, C. de Souza, A. Moura	A hybrid model for a multiproduct pipeline plan- ning and scheduling problem	[245]	2010	Constraints	39	Ilog Solver	-	-	CP2008		
H. Simonis	Models for Global Constraint Applications	[343]	2007	Constraints	30	CHIP	n	n			cumulative diffn cycle inverse cumulative
J. Hooker	An Integrated Method for Planning and Schedul- ing to Minimize Tardiness	[179]	2006	Constraints	19	OPL Cplex Ilog Scheduler	n	n	CP 2005	CuSP	
J. Hooker	A Hybrid Method for the Planning and Schedul- ing	[177]	2005	Constraints	17	OPL Cplex Ilog Scheduler	n	n	-	CuSP	cumulative
P. Vilím, R. Barták, O. Cepek	Extension of $O(n \log n)$ Filtering Algorithms for the Unary Resource Constraint to Optional Ac- tivities	[383]	2005	Constraints	23		n	n		JSSP	disjunctive
P. Baptiste, C. Le Pape	Constraint Propagation and Decomposition Tech- niques for Highly Disjunctive and Highly Cumu- lative Project Scheduling Problems	[29]	2000	Constraints	21	CLAIRE	n	n		RCCSP	cumulative
K. Schild, J. Würtz	Scheduling of Time-Triggered Real-Time Systems	[326]	2000	Constraints	23	OZ	n	n	-		disjunctive
H. El Sakkout, M. Wal- lace	Probe Backtrack Search for Minimal Perturba- tion in Dynamic Scheduling	[324]	2000	Constraints	30	Cplex ECLiPSe	n	n	-	KRFP	
S. Heipcke, Y. Colom- bani, C. Cavalcante, C. de Souza	Scheduling under Labour Resource Constraints	[170]	2000	Constraints	8	COME SchedEns	dead	n	-		
E. Bensana, M. Lemaître, G. Verfaillie	Earth Observation Satellite Management	[51]	1999	Constraints	7	Ilog Solver	?	-	-		
S. Belhadji, A. Isli	Temporal Constraint Satisfaction Techniques in Job Shop Scheduling Problem Solving	[46]	1998	Constraints	9	-	n	n	-	TCSP JSSP	
C. Le Pape, P. Baptiste	Resource Constraints for Preemptive Job-shop Scheduling	[295]	1998	Constraints	25	Ilog Solver Claire	dead	-	-	PJSSP	disjunctive
J. Zhou	A Permutation-Based Approach for Solving the Job-Shop Problem	[414]	1997	Constraints	29	-	n	n	CP 1996	JSSP	flow sort alldifferent permutation
K. Darby-Dowman, J. Little, G. Mitra, M. Zaf- falon	Constraint Logic Programming and Integer Pro- gramming Approaches and Their Collaboration in Solving an Assignment Scheduling Problem	[86]	1997	Constraints	20	Cplex ECLiPSe	n	n	-	MGAP	
M. Wallace	Practical Applications of Constraint Program- ming	[387]	1996	Constraints	30	-	-	-	-	Survey	-
D. Grimes, G. Ifrim, B. O’Sullivan, H. Simonis	Analyzing the impact of electricity price forecast- ing on energy cost-aware scheduling	[151]	2014	J.SUSCOM			-	-	-		

Table 3: 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

4 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 4: Papers from bibtex

Key	Authors	Title	LC	Cite	Year	Conference	Pages
JuvinHHL23 HHL23	Juvin-	C. Juvin, E. Hebrard, L. Houssin, P. Lopez	An Efficient Constraint Programming Approach to Pre-emptive Job Shop Scheduling	[187]	2023	CP 2023	16
PovedaAA23 PovedaAA23		G. Poveda, N. Álvarez, C. Artigues	Partially Preemptive Multi Skill/Mode Resource-Constrained Project Scheduling with Generalized Precedence Relations and Calendars	[308]	2023	CP 2023	21
AalianPG23 AalianPG23		Y. Aalian, G. Pesant, M. Gamache	Optimization of Short-Term Underground Mine Planning Using Constraint Programming	[1]	2023	CP 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	[192]	2023	CP 2023	17
ArmstrongGOS22 ArmstrongGOS22	Arm-	E. Armstrong, M. Garraffa, B. O’Sullivan, H. Simonis	A Two-Phase Hybrid Approach for the Hybrid Flexible Flowshop with Transportation Times	[14]	2022	CPAIOR 2022	13
ArmstrongGOS21 ArmstrongGOS21	Arm-	E. Armstrong, M. Garraffa, B. O’Sullivan, H. Simonis	The Hybrid Flexible Flowshop with Transportation Times	[13]	2021	CP 2021	18
EfthymiouY23 EfthymiouY23		N. Efthymiou, N. Yorke-Smith	Predicting the Optimal Period for Cyclic Hoist Scheduling Problems	[105]	2023	CPAIOR 2023	16
SquillaciPR23 SquillaciPR23	Squil-	S. Squillaci, C. Pralet, S. Roussel	Scheduling Complex Observation Requests for a Constellation of Satellites: Large Neighborhood Search Approaches	[345]	2023	CPAIOR 2023	17
KimCMLLP23 KimCMLLP23	KimCM-	D. Kim, Y. Choi, K. Moon, M. Lee, K. Lee, Michael L. Pinedo	Iterated Greedy Constraint Programming for Scheduling Steelmaking Continuous Casting	[201]	2023	CPAIOR 2023	16
JuvinHL23 JuvinHL23	JuvinHL23	C. Juvin, L. Houssin, P. Lopez	Constraint Programming for the Robust Two-Machine Flow-Shop Scheduling Problem with Budgeted Uncertainty	[188]	2023	CPAIOR 2023	16
TardivoDFMP23 TardivoDFMP23	Tardi-	F. Tardivo, A. Dovier, A. Formisano, L. Michel, E. Pontelli	Constraint Propagation on GPU: A Case Study for the Cumulative Constraint	[353]	2023	CPAIOR 2023	18
BoudreaultSLQ22 BoudreaultSLQ22		R. Boudreault, V. Simard, D. Lafond, C. Quimper	A Constraint Programming Approach to Ship Refit Project Scheduling	[67]	2022	CP 2022	16
PopovicCGNC22 PopovicCGNC22		L. Popovic, A. Côté, M. Gaha, F. Nguewouo, Q. Cappart	Scheduling the Equipment Maintenance of an Electric Power Transmission Network Using Constraint Programming	[306]	2022	CP 2022	15
WinterMMW22 WinterMMW22	Winter-	F. Winter, S. Meiswinkel, N. Musliu, D. Walkiewicz	Modeling and Solving Parallel Machine Scheduling with Contamination Constraints in the Agricultural Industry	[395]	2022	CP 2022	18
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	[136]	2022	CPAIOR 2022	18
OuelletQ22 OuelletQ22		Y. Ouellet, C. Quimper	A MinCumulative Resource Constraint	[290]	2022	CPAIOR 2022	17
AntuoriHHEN21 AntuoriHHEN21	An-	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	[11]	2021	CP 2021	16
KovacsTKSG21 KovacsTKSG21	Kovac-	B. Kovács, P. Tassel, W. Kohlenbrein, P. Schrott-Kostwein, M. Gebser	Utilizing Constraint Optimization for Industrial Machine Workload Balancing	[214]	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	[222]	2021	CP 2021	18
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	[174]	2021	CPAIOR 2021	19
KlankeBYE21 KlankeBYE21	Klanke-	C. Klanke, Dominik R. Bleidorn, V. Yfantis, S. Engell	Combining Constraint Programming and Temporal Decomposition Approaches - Scheduling of an Industrial Formulation Plant	[202]	2021	CPAIOR 2021	16

Table 4: Papers from bibtex

Key	Authors	Title	LC	Cite	Year	Conference	Pages
HananKP21 HananKP21	C. Hanen, Alix Munier Kordon, T. Pedersen	Two Deadline Reduction Algorithms for Scheduling Dependent Tasks on Parallel Processors		[158]	2021	CPAIOR 2021	17
Astrand0F21 As- trand0F21	M. Åstrand, M. Johansson, Hamid Reza Feyzmahdavian	Short-Term Scheduling of Production Fleets in Underground Mines Using CP-Based LNS		[20]	2021	CPAIOR 2021	18
GeibingerKKMMW21 GeibingerKKMMW21	T. Geibinger, L. Kletzander, M. Krainz, F. Mischek, N. Musliu, F. Winter	Physician Scheduling During a Pandemic		[132]	2021	CPAIOR 2021	10
NattafM20 NattafM20	M. Nattaf, A. Malapert	Filtering Rules for Flow Time Minimization in a Parallel Machine Scheduling Problem		[277]	2020	CP 2020	16
GroleazNS20 GroleazNS20	L. Groleaz, Samba Ndoj Ndiaye, C. Solnon	Solving the Group Cumulative Scheduling Problem with CPO and ACO		[153]	2020	CP 2020	17
GroleazNS20a GroleazNS20a	L. Groleaz, Samba Ndoj Ndiaye, C. Solnon	ACO with automatic parameter selection for a scheduling problem with a group cumulative constraint	NO	[152]	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		[262]	2020	CPAIOR 2020	13
TangB20 TangB20	Tanya Y. Tang, J. Christopher Beck	CP and Hybrid Models for Two-Stage Batching and Scheduling		[351]	2020	CPAIOR 2020	16
WessenCS20 WessenCS20	J. Wessén, M. Carlsson, C. Schulte	Scheduling of Dual-Arm Multi-tool Assembly Robots and Workspace Layout Optimization		[393]	2020	CPAIOR 2020	10
ColT19 ColT19	Giacomo Da Col, Erich Christian Teppan	Industrial Size Job Shop Scheduling Tackled by Present Day CP Solvers		[83]	2019	CP 2019	17
FrimodigS19 FrimodigS19	S. Frimodig, C. Schulte	Models for Radiation Therapy Patient Scheduling		[120]	2019	CP 2019	17
GalleguillosKSB19 Gal- leguillosKSB19	C. Galleguillos, Z. Kiziltan, A. Sirbu, Özalp Babaoglu	Constraint Programming-Based Job Dispatching for Modern HPC Applications		[123]	2019	CP 2019	18
MurinR19 MurinR19	S. Murín, H. Rudová	Scheduling of Mobile Robots Using Constraint Programming		[272]	2019	CP 2019	16
Tesch18 Tesch18	A. Tesch	Improving Energetic Propagations for Cumulative Scheduling		[359]	2018	CP 2018	17
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		[160]	2018	CP 2018	18
BofillCSV17 BofillCSV17	M. Bofill, J. Coll, J. Suy, M. Villaret	An Efficient SMT Approach to Solve MRCPSP/max Instances with Tight Constraints on Resources		[57]	2017	CP 2017	9
Pralet17 Pralet17	C. Pralet	An Incomplete Constraint-Based System for Scheduling with Renewable Resources		[309]	2017	CP 2017	19
YoungFS17 YoungFS17	Kenneth D. Young, T. Feydy, A. Schutt	Constraint Programming Applied to the Multi-Skill Project Scheduling Problem		[402]	2017	CP 2017	10
GoldwaserS17 Gold- waserS17	A. Goldwaser, A. Schutt	Optimal Torpedo Scheduling		[145]	2017	CP 2017	16
LiuCGM17 LiuCGM17	T. Liu, Roberto Di Cosmo, M. Gabbrielli, J. Mauro	NightSplitter: A Scheduling Tool to Optimize (Sub)group Activities		[238]	2017	CP 2017	17
MossigeGSMC17 MossigeGSMC17	M. Mossige, A. Gotlieb, H. Spieker, H. Meling, M. Carlsson	Time-Aware Test Case Execution Scheduling for Cyber-Physical Systems		[268]	2017	CP 2017	18
Hooker17 Hooker17	John N. Hooker	Job Sequencing Bounds from Decision Diagrams		[180]	2017	CP 2017	14
BonfiettiZLM16 Bonfiet- tiZLM16	A. Bonfietti, A. Zanarini, M. Lombardi, M. Milano	The Multirate Resource Constraint		[64]	2016	CP 2016	17
SchuttS16 SchuttS16	A. Schutt, Peter J. Stuckey	Explaining Producer/Consumer Constraints		[332]	2016	CP 2016	17
SzerediS16 SzerediS16	R. Szeredi, A. Schutt	Modelling and Solving Multi-mode Resource-Constrained Project Scheduling		[350]	2016	CP 2016	10
Tesch16 Tesch16	A. Tesch	A Nearly Exact Propagation Algorithm for Energetic Reasoning in $O(n^2 \log n)$		[358]	2016	CP 2016	27
CauwelaertDMS16 CauwelaertDMS16	Sascha Van Cauwelaert, C. Dejemeppe, J. Monette, P. Schaus	Efficient Filtering for the Unary Resource with Family-Based Transition Times		[76]	2016	CP 2016	16
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		[65]	2016	CP 2016	17
GilesH16 GilesH16	K. Giles, Willem-Jan van Hoeve	Solving a Supply-Delivery Scheduling Problem with Constraint Programming		[139]	2016	CP 2016	16

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Key	Authors	Title	LC	Cite	Year	Conference	Pages
LimHTB16	LimHTB16	B. Lim, Hassan L. Hijazi, S. Thiébaux, Menkes van den Briel	Online HVAC-Aware Occupancy Scheduling with Adaptive Temperature Control	[233]	2016	CP 2016	18
DejemeppeCS15	DejemeppeCS15	C. Dejemeppe, Sascha Van Cauwelaert, P. Schaus	The Unary Resource with Transition Times	[92]	2015	CP 2015	16
GayHLS15	GayHLS15	S. Gay, R. Hartert, C. Lecoutre, P. Schaus	Conflict Ordering Search for Scheduling Problems	[127]	2015	CP 2015	9
GayHS15	GayHS15	S. Gay, R. Hartert, P. Schaus	Simple and Scalable Time-Table Filtering for the Cumulative Constraint	[128]	2015	CP 2015	9
KreterSS15	KreterSS15	S. Kreter, A. Schutt, Peter J. Stuckey	Modeling and Solving Project Scheduling with Calendars	[215]	2015	CP 2015	17
LombardiBM15	LombardiBM15	M. Lombardi, A. Bonfietti, M. Milano	Deterministic Estimation of the Expected Makespan of a POS Under Duration Uncertainty	[240]	2015	CP 2015	16
SialaAH15	SialaAH15	M. Siala, C. Artigues, E. Hebrard	Two Clause Learning Approaches for Disjunctive Scheduling	[339]	2015	CP 2015	10
EvenSH15	EvenSH15	C. Even, A. Schutt, Pascal Van Hentenryck	A Constraint Programming Approach for Non-preemptive Evacuation Scheduling	[110]	2015	CP 2015	18
MurphyMB15	MurphyMB15	Seán Óg Murphy, O. Manzano, Kenneth N. Brown	Design and Evaluation of a Constraint-Based Energy Saving and Scheduling Recommender System	[273]	2015	CP 2015	17
PraletLJ15	PraletLJ15	C. Pralet, S. Lemaï-Chenevier, J. Jaubert	Scheduling Running Modes of Satellite Instruments Using Constraint-Based Local Search	[310]	2015	CP 2015	16
DerrienP14	DerrienP14	A. Derrien, T. Petit	A New Characterization of Relevant Intervals for Energetic Reasoning	[97]	2014	CP 2014	9
DerrienPZ14	DerrienPZ14	A. Derrien, T. Petit, S. Zampelli	A Declarative Paradigm for Robust Cumulative Scheduling	[98]	2014	CP 2014	9
HoundjiSWD14	HoundjiSWD14	Vinasétan Ratheil Houndji, P. Schaus, Laurence A. Wolsey, Y. Deville	The StockingCost Constraint	[182]	2014	CP 2014	16
BartoliniBBLM14	BartoliniBBLM14	A. Bartolini, A. Borghesi, T. Bridi, M. Lombardi, M. Milano	Proactive Workload Dispatching on the EURORA Supercomputer	[35]	2014	CP 2014	16
BofillEGPSV14	BofillEGPSV14	M. Bofill, J. Espasa, M. Garcia, M. Palahí, J. Suy, M. Villaret	Scheduling B2B Meetings	[58]	2014	CP 2014	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	[99]	2014	CP 2014	18
GaySS14	GaySS14	S. Gay, P. Schaus, Vivian De Smedt	Continuous Casting Scheduling with Constraint Programming	[130]	2014	CP 2014	15
OuelletQ13	OuelletQ13	P. Ouellet, C. Quimper	Time-Table Extended-Edge-Finding for the Cumulative Constraint	[288]	2013	CP 2013	16
SchuttFS13	SchuttFS13	A. Schutt, T. Feydy, Peter J. Stuckey	Scheduling Optional Tasks with Explanation	[329]	2013	CP 2013	17
SimoninAHL12	SimoninAHL12	G. Simonin, C. Artigues, E. Hebrard, P. Lopez	Scheduling Scientific Experiments on the Rosetta/Philae Mission	[340]	2012	CP 2012	15
LetortBC12	LetortBC12	A. Letort, N. Beldiceanu, M. Carlsson	A Scalable Sweep Algorithm for the cumulative Constraint	[227]	2012	CP 2012	16
SerraNM12	SerraNM12	T. Serra, G. Nishioka, Fernando J. M. Marcellino	The Offshore Resources Scheduling Problem: Detailing a Constraint Programming Approach	[334]	2012	CP 2012	17
IfrimOS12	IfrimOS12	G. Ifrim, B. O’Sullivan, H. Simonis	Properties of Energy-Price Forecasts for Scheduling	[184]	2012	CP 2012	16
HermenierDL11	HermenierDL11	F. Hermenier, S. Demassey, X. Lorca	Bin Repacking Scheduling in Virtualized Datacenters	[173]	2011	CP 2011	15
BonfiettiLBM11	BonfiettiLBM11	A. Bonfietti, M. Lombardi, L. Benini, M. Milano	A Constraint Based Approach to Cyclic RCPSP	[61]	2011	CP 2011	15
ClercqPBJ11	ClercqPBJ11	Alexis De Clercq, T. Petit, N. Beldiceanu, N. Jussien	Filtering Algorithms for Discrete Cumulative Problems with Overloads of Resource	[81]	2011	CP 2011	16
GrimesH11	GrimesH11	D. Grimes, E. Hebrard	Models and Strategies for Variants of the Job Shop Scheduling Problem	[149]	2011	CP 2011	17
KameugneFSN11	KameugneFSN11	R. Kameugne, Laure Pauline Fotso, Joseph D. Scott, Y. Ngo-Kateu	A Quadratic Edge-Finding Filtering Algorithm for Cumulative Resource Constraints	[193]	2011	CP 2011	15
LombardiM10	LombardiM10	M. Lombardi, M. Milano	Constraint Based Scheduling to Deal with Uncertain Durations and Self-Timed Execution	[243]	2010	CP 2010	15
SchuttW10	SchuttW10	A. Schutt, A. Wolf	A New $O(n^2 \log n)$ Not-First/Not-Last Pruning Algorithm for Cumulative Resource Constraints	[333]	2010	CP 2010	15

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Baptiste09 Baptiste09	P. Baptiste	Constraint-Based Schedulers, Do They Really Work?		[25]	2009	CP 2009	1
GrimesHM09	D. Grimes, E. Hebrard, A. Malapert	Closing the Open Shop: Contradicting Conventional Wisdom		[150]	2009	CP 2009	9
GrimesHM09							
LombardiM09 LombardiM09	M. Lombardi, M. Milano	A Precedence Constraint Posting Approach for the RCPSP with Time Lags and Variable Durations		[242]	2009	CP 2009	15
SchuttFSW09 SchuttFSW09	A. Schutt, T. Feydy, Peter J. Stuckey, M. Wallace	Why Cumulative Decomposition Is Not as Bad as It Sounds		[330]	2009	CP 2009	16
Vilim09 Vilim09	P. Vilím	Edge Finding Filtering Algorithm for Discrete Cumulative Resources in $O(kn \log n)$		[379]	2009	CP 2009	15
MouraSCL08	Arnaldo Vieira Moura, Cid C. de Souza, André	Planning and Scheduling the Operation of a Very Large Oil Pipeline Network		[270]	2008	CP 2008	16
MouraSCL08	A. Ciré, Tony Minoru Tamura Lopes						
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		[88]	2007	CP 2007	13
GarganiR07 GarganiR07	A. Gargani, P. Refalo	An Efficient Model and Strategy for the Steel Mill Slab Design Problem		[124]	2007	CP 2007	13
KrogtLPHJ07 KrogtLPHJ07	Roman van der Krogt, J. Little, K. Pulliam, S. Hanhilammi, Y. Jin	Scheduling for Cellular Manufacturing		[371]	2007	CP 2007	13
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		[200]	2006	CP 2006	13
ArtiouchineB05 ArtiouchineB05	K. Artiouchine, P. Baptiste	Inter-distance Constraint: An Extension of the All-Different Constraint for Scheduling Equal Length Jobs		[18]	2005	CP 2005	15
FortinZDF05 FortinZDF05	J. Fortin, P. Zielinski, D. Dubois, H. Fargier	Interval Analysis in Scheduling		[117]	2005	CP 2005	15
cp-Hooker05 cp-Hooker05	John N. Hooker	Planning and Scheduling to Minimize Tardiness		[178]	2005	CP 2005	14
DilkinaDH05 DilkinaDH05	B. Dilkina, L. Duan, William S. Havens	Extending Systematic Local Search for Job Shop Scheduling Problems		[100]	2005	CP 2005	5
AbrilSB05 AbrilSB05	M. Abril, Miguel A. Salido, F. Barber	Distributed Constraints for Large-Scale Scheduling Problems		[3]	2005	CP 2005	1
CarchraeBF05 CarchraeBF05	T. Carchrae, J. Christopher Beck, Eugene C. Freuder	Methods to Learn Abstract Scheduling Models		[74]	2005	CP 2005	1
WuBB05 WuBB05	Christine Wei Wu, Kenneth N. Brown, J. Christopher Beck	Scheduling with Uncertain Start Dates		[400]	2005	CP 2005	1
HebrardTW05 HebrardTW05	E. Hebrard, P. Tyler, T. Walsh	Computing Super-Schedules		[161]	2005	CP 2005	1
KovacsEKV05 KovacsEKV05	A. Kovács, P. Egri, T. Kis, J. Váncza	Proterv-II: An Integrated Production Planning and Scheduling System		[210]	2005	CP 2005	1
VilimBC04 VilimBC04	P. Vilím, R. Barták, O. Cepek	Unary Resource Constraint with Optional Activities		[382]	2004	CP 2004	15
Hooker04 Hooker04	John N. Hooker	A Hybrid Method for Planning and Scheduling		[176]	2004	CP 2004	12
KovacsV04 KovacsV04	A. Kovács, J. Váncza	Completable Partial Solutions in Constraint Programming and Constraint-Based Scheduling		[212]	2004	CP 2004	15
LimRX04 LimRX04	A. Lim, B. Rodrigues, Z. Xu	Solving the Crane Scheduling Problem Using Intelligent Search Schemes		[232]	2004	CP 2004	5
OddiPCC03 OddiPCC03	A. Oddi, N. Policella, A. Cesta, G. Cortellessa	Generating High Quality Schedules for a Spacecraft Memory Downlink Problem		[287]	2003	CP 2003	15
Kumar03 Kumar03	T. K. Satish Kumar	Incremental Computation of Resource-Envelopes in Producer-Consumer Models		[218]	2003	CP 2003	15
Wolf03 Wolf03	A. Wolf	Pruning while Sweeping over Task Intervals		[396]	2003	CP 2003	15
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		[85]	2003	CP 2003	5
Vilim03 Vilim03	P. Vilím	Computing Explanations for Global Scheduling Constraints		[376]	2003	CP 2003	1
BeldiceanuC02 BeldiceanuC02	N. Beldiceanu, M. Carlsson	A New Multi-resource cumulatives Constraint with Negative Heights		[42]	2002	CP 2002	17

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Muscettola02	Muscettola02	N. Muscettola		[274]	2002	CP 2002	16
KamarainenS02	KamarainenS02	O. Kamarainen, Hani El Sakkout		[189]	2002	CP 2002	17
Bartak02	Bartak02	R. Barták		[33]	2002	CP 2002	16
HookerY02	HookerY02	John N. Hooker, H. Yan		[181]	2002	CP 2002	5
ElkhyariGJ02	ElkhyariGJ02	A. Elkhyari, C. Guéret, N. Jussien		[106]	2002	CP 2002	6
Vilim02	Vilim02	P. Vilím		[375]	2002	CP 2002	1
VerfaillieL01	VerfaillieL01	G. Verfaillie, M. Lemaître		[374]	2001	CP 2001	15
VanczaM01	VanczaM01	J. Váncza, A. Márkus		[373]	2001	CP 2001	15
AngelsmarkJ00	AngelsmarkJ00	O. Angelsmark, P. Jonsson		[10]	2000	CP 2000	5
RodosekW98	RodosekW98	R. Rodosek, M. Wallace		[319]	1998	CP 1998	15
CestaOS98	CestaOS98	A. Cesta, A. Oddi, Stephen F. Smith		[77]	1998	CP 1998	1
FrostD98	FrostD98	D. Frost, R. Dechter		[122]	1998	CP 1998	1
Caseau97	Caseau97	Y. Caseau		[75]	1997	CP 1997	4
BaptisteP97	BaptisteP97	P. Baptiste, Claude Le Pape		[28]	1997	CP 1997	15
BeckDF97	BeckDF97	J. Christopher Beck, Andrew J. Davenport, Mark S. Fox		[37]	1997	CP 1997	15
Colombani96	Colombani96	Y. Colombani		[84]	1996	CP 1996	15
Zhou96	Zhou96	J. Zhou		[413]	1996	CP 1996	15
SimonisC95	SimonisC95	H. Simonis, T. Cornelissens		[344]	1995	CP 1995	14
Goltz95	Goltz95	H. Goltz		[146]	1995	CP 1995	14
Simonis95	Simonis95	H. Simonis		[342]	1995	CP 1995	4
Puget95	Puget95	J. Puget		[312]	1995	CP 1995	4
Touraivane95	Touraivane95	Touraivane		[365]	1995	CP 1995	3
GeibingerMM19	GeibingerMM19	T. Geibinger, F. Mischek, N. Musliu		[134]	2019	CPAIOR 2019	16
MalapertN19	MalapertN19	A. Malapert, M. Nattaf		[253]	2019	CPAIOR 2019	17
BogaerdtW19	BogaerdtW19	Pim van den Bogaerdt, Mathijs de Weerd		[370]	2019	CPAIOR 2019	16
YangSS19	YangSS19	M. Yang, A. Schutt, Peter J. Stuckey		[401]	2019	CPAIOR 2019	10
BenediktSMVH18	BenediktSMVH18	O. Benedikt, P. Sucha, I. Módos, M. Vlk, Z. Hanzálek		[49]	2018	CPAIOR 2018	10
DemirovicS18	DemirovicS18	E. Demirovic, Peter J. Stuckey		[95]	2018	CPAIOR 2018	18
KameugneFGOQ18	KameugneFGOQ18	R. Kameugne, Séverine Betmbe Fetgo, V. Gin-gras, Y. Ouellet, C. Quimper		[191]	2018	CPAIOR 2018	17
Laborie18a	Laborie18a	P. Laborie		[220]	2018	CPAIOR 2018	9

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OuelletQ18 OuelletQ18	Y. Ouellet, C. Quimper	A $O(n \sqrt{\log^2 n})$ Checker and $O(n^2 \sqrt{\log n})$ Filtering Algorithm for the Energetic Reasoning		[289]	2018	CPAIOR 2018	18
AstrandJZ18 AstrandJZ18	M. Åstrand, M. Johansson, A. Zanarini	Fleet Scheduling in Underground Mines Using Constraint Programming		[21]	2018	CPAIOR 2018	9
CappartS17 CappartS17	Q. Cappart, P. Schaus	Rescheduling Railway Traffic on Real Time Situations Using Time-Interval Variables		[73]	2017	CPAIOR 2017	16
KletzanderM17 KletzanderM17	L. Kletzander, N. Musliu	A Multi-stage Simulated Annealing Algorithm for the Torpedo Scheduling Problem		[203]	2017	CPAIOR 2017	15
GelainPRVW17 GelainPRVW17	M. Gelain, Maria Silvia Pini, F. Rossi, Kristen Brent Venable, T. Walsh	A Local Search Approach for Incomplete Soft Constraint Problems: Experimental Results on Meeting Scheduling Problems		[137]	2017	CPAIOR 2017	16
FontaineMH16 FontaineMH16	D. Fontaine, Laurent D. Michel, Pascal Van Hentenryck	Parallel Composition of Scheduling Solvers		[116]	2016	CPAIOR 2016	11
HechingH16 HechingH16	Aliza R. Heching, John N. Hooker	Scheduling Home Hospice Care with Logic-Based Benders Decomposition		[162]	2016	CPAIOR 2016	11
Madi-WambaB16 Madi-WambaB16	G. Madi-Wamba, N. Beldiceanu	The TaskIntersection Constraint		[250]	2016	CPAIOR 2016	16
MelgarejoLS15 MelgarejoLS15	P. Aguiar-Melgarejo, P. Laborie, C. Solnon	A Time-Dependent No-Overlap Constraint: Application to Urban Delivery Problems		[6]	2015	CPAIOR 2015	17
BofillGSV15 BofillGSV15	M. Bofill, M. Garcia, J. Suy, M. Villaret	MaxSAT-Based Scheduling of B2B Meetings		[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		[70]	2015	CPAIOR 2015	17
cpaior-GayHS15 cpaio-GayHS15	S. Gay, R. Hartert, P. Schaus	Time-Table Disjunctive Reasoning for the Cumulative Constraint		[129]	2015	CPAIOR 2015	16
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		[234]	2015	CPAIOR 2015	15
PesantRR15 PesantRR15	G. Pesant, G. Rix, L. Rousseau	A Comparative Study of MIP and CP Formulations for the B2B Scheduling Optimization Problem		[300]	2015	CPAIOR 2015	16
VilimLS15 VilimLS15	P. Vilím, P. Laborie, P. Shaw	Failure-Directed Search for Constraint-Based Scheduling		[384]	2015	CPAIOR 2015	17
KoschB14 KoschB14	S. Kosch, J. Christopher Beck	A New MIP Model for Parallel-Batch Scheduling with Non-identical Job Sizes		[207]	2014	CPAIOR 2014	16
BonfiettiLM14 BonfiettiLM14	A. Bonfietti, M. Lombardi, M. Milano	Disregarding Duration Uncertainty in Partial Order Schedules? Yes, We Can!		[63]	2014	CPAIOR 2014	16
DejemeppeD14 DejemeppeD14	C. Dejemeppe, Y. Deville	Continuously Degrading Resource and Interval Dependent Activity Durations in Nuclear Medicine Patient Scheduling		[93]	2014	CPAIOR 2014	9
BessiereHMQW14 BessiereHMQW14	C. Bessiere, E. Hebrard, M. Ménard, C. Quimper, T. Walsh	Buffered Resource Constraint: Algorithms and Complexity		[53]	2014	CPAIOR 2014	16
DoulabiRP14 DoulabiRP14	Seyed Hossein Hashemi Doulabi, L. Rousseau, G. Pesant	A Constraint Programming-Based Column Generation Approach for Operating Room Planning and Scheduling		[102]	2014	CPAIOR 2014	9
HeinzKB13 HeinzKB13	S. Heinz, W. Ku, J. Christopher Beck	Recent Improvements Using Constraint Integer Programming for Resource Allocation and Scheduling		[164]	2013	CPAIOR 2013	16
KelarevaTK13 KelarevaTK13	E. Kelareva, K. Tierney, P. Kilby	CP Methods for Scheduling and Routing with Time-Dependent Task Costs		[196]	2013	CPAIOR 2013	17
LetortCB13 LetortCB13	A. Letort, M. Carlsson, N. Beldiceanu	A Synchronized Sweep Algorithm for the k -dimensional cumulative Constraint		[228]	2013	CPAIOR 2013	16
cpaior-SchuttFS13 cpaio-SchuttFS13	A. Schutt, T. Feydy, Peter J. Stuckey	Explaining Time-Table-Edge-Finding Propagation for the Cumulative Resource Constraint		[328]	2013	CPAIOR 2013	17
CireCH13 CireCH13	André A. Ciré, E. Coban, John N. Hooker	Mixed Integer Programming vs. Logic-Based Benders Decomposition for Planning and Scheduling		[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		[155]	2013	CPAIOR 2013	7

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BillautHL12	Bil-lautHL12	J. Billaut, E. Hebrard, P. Lopez	Complete Characterization of Near-Optimal Sequences for the Two-Machine Flow Shop Scheduling Problem	[54]	2012	CPAIOR 2012	15
BonfiettiLBM12	Bonfi-ettiLBM12	A. Bonfietti, M. Lombardi, L. Benini, M. Milano	Global Cyclic Cumulative Constraint	[62]	2012	CPAIOR 2012	16
HeinzB12	HeinzB12	S. Heinz, J. Christopher Beck	Reconsidering Mixed Integer Programming and MIP-Based Hybrids for Scheduling	[163]	2012	CPAIOR 2012	17
RendlPHPR12	RendlPHPR12	A. Rendl, M. Prandtstetter, G. Hiermann, J. Puchinger, Günther R. Raidl	Hybrid Heuristics for Multimodal Homecare Scheduling	[317]	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	[327]	2012	CPAIOR 2012	17
ChapadosJR11	Chapa-dosJR11	N. Chapados, M. Joliveau, L. Rousseau	Retail Store Workforce Scheduling by Expected Operating Income Maximization	[78]	2011	CPAIOR 2011	6
EdisO11	EdisO11	Emrah B. Edis, C. Oguz	Parallel Machine Scheduling with Additional Resources: A Lagrangian-Based Constraint Programming Approach	[104]	2011	CPAIOR 2011	7
LahimerLH11	LahimerLH11	A. Lahimer, P. Lopez, M. Haouari	Climbing Depth-Bounded Adjacent Discrepancy Search for Solving Hybrid Flow Shop Scheduling Problems with Multiprocessor Tasks	[224]	2011	CPAIOR 2011	14
LombardiBMB11	Lom-bardiBMB11	M. Lombardi, A. Bonfietti, M. Milano, L. Benini	Precedence Constraint Posting for Cyclic Scheduling Problems	[241]	2011	CPAIOR 2011	17
Vilim11	Vilim11	P. Vilím	Timetable Edge Finding Filtering Algorithm for Discrete Cumulative Resources	[381]	2011	CPAIOR 2011	16
CobanH10	CobanH10	E. Coban, John N. Hooker	Single-Facility Scheduling over Long Time Horizons by Logic-Based Benders Decomposition	[82]	2010	CPAIOR 2010	5
Davenport10	Daven-port10	Andrew J. Davenport	Integrated Maintenance Scheduling for Semiconductor Manufacturing	[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	[148]	2010	CPAIOR 2010	15
BertholdHMLS10	BertholdHMLS10	T. Berthold, S. Heinz, Marco E. Lübbecke, Rolf H. Möhring, J. Schulz	A Constraint Integer Programming Approach for Resource-Constrained Project Scheduling	[52]	2010	CPAIOR 2010	5
Laborie09	Laborie09	P. Laborie	IBM ILOG CP Optimizer for Detailed Scheduling Illustrated on Three Problems	[219]	2009	CPAIOR 2009	15
cpaior-Vilim09	cpaior-Vilim09	P. Vilím	Max Energy Filtering Algorithm for Discrete Cumulative Resources	[380]	2009	CPAIOR 2009	15
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	[4]	2009	CPAIOR 2009	2
BeldiceanuCP08	BeldiceanuCP08	N. Beldiceanu, M. Carlsson, E. Poder	New Filtering for the cumulative Constraint in the Context of Non-Overlapping Rectangles	[44]	2008	CPAIOR 2008	15
DoomsH08	DoomsH08	G. Dooms, Pascal Van Hentenryck	Gap Reduction Techniques for Online Stochastic Project Scheduling	[101]	2008	CPAIOR 2008	16
WatsonB08	WatsonB08	J. Watson, J. Christopher Beck	A Hybrid Constraint Programming / Local Search Approach to the Job-Shop Scheduling Problem	[392]	2008	CPAIOR 2008	15
BarlattCG08	BarlattCG08	A. Barlatt, Amy Mainville Cohn, Oleg Yu. Gusikhin	A Hybrid Approach for Solving Shift-Selection and Task-Sequencing Problems	[31]	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)	[225]	2008	CPAIOR 2008	5
HentenryckM08	Henten-ryckM08	Pascal Van Hentenryck, L. Michel	The Steel Mill Slab Design Problem Revisited	[172]	2008	CPAIOR 2008	5
KeriK07	KeriK07	A. Kéri, T. Kis	Computing Tight Time Windows for RCPSPWET with the Primal-Dual Method	[198]	2007	CPAIOR 2007	14
MonetteDD07	Monet-teDD07	J. Monette, Y. Deville, P. Dupont	A Position-Based Propagator for the Open-Shop Problem	[264]	2007	CPAIOR 2007	14
BeldiceanuP07	BeldiceanuP07	N. Beldiceanu, E. Poder	A Continuous Multi-resources <i>cumulative</i> Constraint with Positive-Negative Resource Consumption-Production	[45]	2007	CPAIOR 2007	15

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Key	Authors	Title	LC	Cite	Year	Conference	Pages
RossiTHP07 RossiTHP07	R. Rossi, A. Tarim, B. Hnich, Steven D. Prestwich	Replenishment Planning for Stochastic Inventory Systems with Shortage Cost		[320]	2007	CPAIOR 2007	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		[369]	2007	CPAIOR 2007	15
BeniniBGM06 BeniniBGM06	L. Benini, D. Bertozzi, A. Guerri, M. Milano	Allocation, Scheduling and Voltage Scaling on Energy Aware MPSoCs		[50]	2006	CPAIOR 2006	15
KovacsV06 KovacsV06	A. Kovács, J. Váncza	Progressive Solutions: A Simple but Efficient Dominance Rule for Practical RCPSP		[213]	2006	CPAIOR 2006	13
ChuX05 ChuX05	Y. Chu, Q. Xia	A Hybrid Algorithm for a Class of Resource Constrained Scheduling Problems		[79]	2005	CPAIOR 2005	15
FrankK05 FrankK05	J. Frank, E. Kürklü	Mixed Discrete and Continuous Algorithms for Scheduling Airborne Astronomy Observations		[118]	2005	CPAIOR 2005	18
Vilim05 Vilim05	P. Vilím	Computing Explanations for the Unary Resource Constraint		[378]	2005	CPAIOR 2005	14
MaraveliasG04 MaraveliasG04	Christos T. Maravelias, Ignacio E. Grossmann	Using MILP and CP for the Scheduling of Batch Chemical Processes		[256]	2004	CPAIOR 2004	20
ArtiguesBF04 ArtiguesBF04	C. Artigues, S. Belmokhtar, D. Feillet	A New Exact Solution Algorithm for the Job Shop Problem with Sequence-Dependent Setup Times		[16]	2004	CPAIOR 2004	13
HentenryckM04 HentenryckM04	Pascal Van Hentenryck, L. Michel	Scheduling Abstractions for Local Search		[171]	2004	CPAIOR 2004	16
Vilim04 Vilim04	P. Vilím	O(n log n) Filtering Algorithms for Unary Resource Constraint		[377]	2004	CPAIOR 2004	13
Sadykov04 Sadykov04	R. Sadykov	A Hybrid Branch-And-Cut Algorithm for the One-Machine Scheduling Problem		[322]	2004	CPAIOR 2004	7
RiahiNS018 RiahiNS018	V. Riahi, M. A. Hakim Newton, K. Su, A. Sattar	Local Search for Flowshops with Setup Times and Blocking Constraints	NO	[318]	2018	ICAPS 2018	9
Bit-Monnot23 Bit-Monnot23	A. Bit-Monnot	Enhancing Hybrid CP-SAT Search for Disjunctive Scheduling		[55]	2023	ECAI 2023	8
WangB23 WangB23	R. Wang, N. Barnier	Dynamic All-Different and Maximal Cliques Constraints for Fixed Job Scheduling		[390]	2023	ICTAI 2023	8
WangB20 WangB20	R. Wang, N. Barnier	Global Propagation of Transition Cost for Fixed Job Scheduling		[389]	2020	ECAI 2020	8
asselGS23 asselGS23	P. Tassel, M. Gebser, K. Schekotihin	An End-to-End Reinforcement Learning Approach for Job-Shop Scheduling Problems Based on Constraint Programming		[354]	2023	ICAPS 2023	9
YuraszeckMC23 YuraszeckMC23	F. Yuraszeck, G. Mejía, D. Canut-de-Bon	A competitive constraint programming approach for the group shop scheduling problem		[404]	2023	ANT 2023	6
PerezGSL23 PerezGSL23	G. Perez, G. Glorian, W. Suijlen, A. Lallouet	A Constraint Programming Model for Scheduling the Unloading of Trains in Ports		[298]	2023	ICTAI 2023	7
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		[259]	2023	APMS 2023	14
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		[291]	2022	CoDIT 2022	6
Teppan22 Teppan22	Erich Christian Teppan	Types of Flexible Job Shop Scheduling: A Constraint Programming Experiment	NO	[357]	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	[364]	2022	ICAART 2022	8
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		[230]	2022	ICNSC 2022	6
ZhangJZL22 ZhangJZL22	H. Zhang, Y. Ji, Z. Zhao, S. Liu	Constraint Programming for Modeling and Solving a Hybrid Flow Shop Scheduling Problem		[409]	2022	ICNSC 2022	6

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GeibingerMM21 GeibingerMM21	T. Geibinger, F. Mischek, N. Musliu	Constraint Logic Programming for Real-World Test Laboratory Scheduling		[135]	2021	AAAI 2021	9
BenderWS21 BenderWS21	Ben- T. Bender, D. Wittwer, T. Schmidt	Applying Constraint Programming to the Multi-mode Scheduling Problem in Harvest Logistics		[47]	2021	ICCL 2021	16
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		[142]	2020	AAAI 2020	8
BarzegaranZP20 BarzegaranZP20	Barze- M. Barzegaran, B. Zarrin, P. Pop	Quality-Of-Control-Aware Scheduling of Communication in TSN-Based Fog Computing Platforms Using Constraint Programming		[36]	2020	Fog-IoT 2020	9
FrohnerTR19 FrohnerTR19	Frohn- N. Frohner, S. Teuschl, Günther R. Raidl	Casual Employee Scheduling with Constraint Programming and Metaheuristics		[121]	2019	EUROCAST 2019	9
Tom19 Tom19	Tom M. Tom	Fuzzy Multi-Constraint Programming Model for Weekly Meals Scheduling		[362]	2019	FUZZ-IEEE 2019	6
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		[40]	2019	ICRA 2019	7
BadicaBIL19 BadicaBIL19	Badica- 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
LiuLH19 LiuLH19	K. Liu, S. Löffler, P. Hofstedt	Solving the Talent Scheduling Problem by Parallel Constraint Programming		[237]	2019	AIAI 2019	9
ParkUJR19 ParkUJR19	H. Park, J. Um, J. Jung, M. Ruskowski	Developing a Production Scheduling System for Modular Factory Using Constraint Programming		[296]	2019	RAAD 2019	8
ArbaouiY18 ArbaouiY18	Ar- T. Arbaoui, F. Yalaoui	Solving the Unrelated Parallel Machine Scheduling Problem with Additional Resources Using Constraint Programming		[12]	2018	ACIIDS 2018	10
HoYCLCLC18 HoYCLCLC18	HoY- 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	[175]	2018	AICCC 2018	6
NishikawaSTT18 NishikawaSTT18	H. Nishikawa, K. Shimada, I. Taniguchi, H. Tomiyama	Scheduling of Malleable Fork-Join Tasks with Constraint Programming		[279]	2018	CANDAR 2018	6
NishikawaSTT18a NishikawaSTT18a	H. Nishikawa, K. Shimada, I. Taniguchi, H. Tomiyama	Scheduling of Malleable Tasks Based on Constraint Programming		[280]	2018	TENCON 2018	6
ZhouGL15 ZhouGL15	J. Zhou, Y. Guo, G. Li	On complex hybrid flexible flowshop scheduling problems based on constraint programming		[415]	2015	FSKD 2015	5
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	[119]	2014	GOR 2014	7
ZhangLS12 ZhangLS12	X. Zhang, Z. Lv, X. Song	Model and Solution for Hot Strip Rolling Scheduling Problem Based on Constraint Programming Method		[412]	2012	CIT 2012	4
ZibranR11 ZibranR11	Minhaz F. Zibran, Chanchal K. Roy	Conflict-Aware Optimal Scheduling of Code Clone Refactoring: A Constraint Programming Approach		[417]	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		[418]	2011	SCAM 2011	10
SunLYL10 SunLYL10	Z. Sun, H. Li, M. Yao, N. Li	Scheduling Optimization Techniques for FlexRay Using Constraint-Programming		[348]	2010	GreenCom 2010	6
MakMS10 MakMS10	K. Mak, J. Ma, W. Su	A constraint programming approach for production scheduling of multi-period virtual cellular manufacturing systems		[252]	2010	ICNC 2010	5
MonetteDH09 MonetteDH09	J. Monette, Y. Deville, Pascal Van Hentenryck	Just-In-Time Scheduling with Constraint Programming		[265]	2009	ICAPS 2009	null
ThiruvadyBME09 ThiruvadyBME09	Dhananjay R. Thiruvady, C. Blum, B. Meyer, Andreas T. Ernst	Hybridizing Beam-ACO with Constraint Programming for Single Machine Job Scheduling		[360]	2009	HM 2009	15
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		[269]	2008	CSE 2008	8
HoeveGSL07 HoeveGSL07	Willem Jan van Hoeve, Carla P. Gomes, B. Selman, M. Lombardi	Optimal Multi-Agent Scheduling with Constraint Programming		[372]	2007	AAAI 2007	6

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Key	Authors	Title	LC	Cite	Year	Conference	Pages
Limtanyakul07	Limtanyakul07	K. Limtanyakul		[235]	2007	GOR 2007	6
GomesHS06	GomesHS06	Carla P. Gomes, Willem Jan van Hoeve, B. Selman		[147]	2006	AAAI 2006	2
QuSN06	QuSN06	Y. Qu, J. Soininen, J. Nurmi		[315]	2006	SoC 2006	4
LiuJ06	LiuJ06	Y. Liu, Y. Jiang		[239]	2006	PRICAI 2006	5
QuirogaZH05	QuirogaZH05	O. Quiroga, L. Zeballos, Gabriela P. Henning		[316]	2005	ICRA 2005	6
Geske05	Geske05	U. Geske		[138]	2005	INAP 2005	18
VillaverdeP04	VillaverdeP04	K. Villaverde, E. Pontelli	NO	[385]	2004	ISCA 2004	6
WolinskiKG04	WolinskiKG04	C. Wolinski, K. Kuchcinski, Maya B. Gokhale		[398]	2004	DSD 2004	8
WolinskiKG04a	WolinskiKG04a	C. Wolinski, K. Kuchcinski, Maya B. Gokhale	NO	[399]	2004	FPGA 2004	1
ValleMGT03	ValleMGT03	Carmelo Del Valle, Antonio A. Márquez, Rafael M. Gasca, M. Toro		[368]	2003	KES 2003	8
ZhuS02	ZhuS02	Kenny Qili Zhu, Andrew E. Santosa		[416]	2002	CAiSE 2002	5
Bartak02a	Bartak02a	R. Barták		[32]	2002	ERCIM/CologNet 2002	15
ElkhyariGJ02a	ElkhyariGJ02a	A. Elkhyari, C. Guéret, N. Jussien		[107]	2002	PATAT 2002	24
KorbaaYG99	KorbaaYG99	O. Korbaa, P. Yim, J. Gentina		[205]	1999	ECC 1999	8
PembertonG98	PembertonG98	Joseph C. Pemberton, Flavius Galiber III	NO	[297]	1998	DIMACS 1998	14
GruianK98	GruianK98	F. Gruian, K. Kuchcinski		[154]	1998	EUROMICRO 1998	8
BoucherBVBL97	BoucherBVBL97	E. Boucher, A. Bachelu, C. Varnier, P. Baptiste, B. Legeard	NO	[66]	1997	PACT 1997	18
PapeB97	PapeB97	Claude Le Pape, P. Baptiste	NO	[294]	1997	PACT 1997	20
JourdanFRD94	JourdanFRD94	J. Jourdan, F. Fages, D. Rozzonelli, A. Demeure	NO	[186]	1994	ILPS 1994	1
BaptisteLV92	BaptisteLV92	P. Baptiste, B. Legeard, C. Varnier		[30]	1992	ICRA 1992	6
ErtlK91	ErtlK91	M. Anton Ertl, A. Krall		[108]	1991	PLILP 1991	12
GingrasQ16	GingrasQ16	V. Gingras, C. Quimper	NO	[140]	2016	IJCAI 2016	7
HeinzS11	HeinzS11	S. Heinz, J. Schulz		[166]	2011	SEA 2011	10
AronssonBK09	AronssonBK09	M. Aronsson, M. Bohlin, P. Kreuger		[15]	2009	ATMOS 2009	null
PoderB08	PoderB08	E. Poder, N. Beldiceanu	NO	[302]	2008	ICAPS 2008	8
WolfS05	WolfS05	A. Wolf, G. Schrader		[397]	2005	INAP 2005	14
AggounB92	AggounB92	A. Aggoun, N. Beldiceanu	NO	[5]	1992	JFPL 1992	1

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Key	Authors	Title	LC	Cite	Year	Conference	Pages
Madi-WambaLOBM17 Madi-WambaLOBM17	G. Madi-Wamba, Y. Li, A. Orgerie, N. Beldiceanu, J. Menaud	Green Energy Aware Scheduling Problem in Virtualized Datacenters		[251]	2017	ICPADS 2017	8

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Key	Authors	Title	LC	Cite	Year	Journal	Pages
LacknerMMWW23 LacknerMMWW23	M. Lackner, C. Mrkvicka, N. Musliu, D. Walkiewicz, F. Winter	Exact methods for the Oven Scheduling Problem		[223]	2023	Constraints An Int. J.	42
Caballero23 Caballero23	Jordi Coll Caballero	Scheduling through logic-based tools		[71]	2023	Constraints An Int. J.	1
CampeauG22 CampeauG22	L. Campeau, M. Gamache	Short- and medium-term optimization of underground mine planning using constraint programming		[72]	2022	Constraints An Int. J.	18
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		[204]	2021	Constraints An Int. J.	51
BenediktMH20 BenediktMH20	O. Benedikt, I. Módos, Z. Hanzálek	Power of pre-processing: production scheduling with variable energy pricing and power-saving states		[48]	2020	Constraints An Int. J.	19
WallaceY20 WallaceY20	M. Wallace, N. Yorke-Smith	A new constraint programming model and solving for the cyclic hoist scheduling problem		[388]	2020	Constraints An Int. J.	19
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		[221]	2018	Constraints An Int. J.	41
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		[112]	2018	Constraints An Int. J.	22
KreterSS17 KreterSS17	S. Kreter, A. Schutt, Peter J. Stuckey	Using constraint programming for solving RCPSP/max-cal		[216]	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		[276]	2017	Constraints An Int. J.	18
SimoninAHL15 SimoninAHL15	G. Simonin, C. Artigues, E. Hebrard, P. Lopez	Scheduling scientific experiments for comet exploration		[341]	2015	Constraints An Int. J.	23
LetortCB15 LetortCB15	A. Letort, M. Carlsson, N. Beldiceanu	Synchronized sweep algorithms for scalable scheduling constraints		[229]	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		[275]	2015	Constraints An Int. J.	21
Siala15 Siala15	M. Siala	Search, propagation, and learning in sequencing and scheduling problems		[338]	2015	Constraints An Int. J.	2
Kameugne15 Kameugne15	R. Kameugne	Propagation techniques of resource constraint for cumulative scheduling		[190]	2015	Constraints An Int. J.	2
KameugneFSN14 KameugneFSN14	R. Kameugne, Laure Pauline Fotso, Joseph D. Scott, Y. Ngo-Kateu	A quadratic edge-finding filtering algorithm for cumulative resource constraints		[194]	2014	Constraints An Int. J.	27
HeinzSB13 HeinzSB13	S. Heinz, J. Schulz, J. Christopher Beck	Using dual presolving reductions to reformulate cumulative constraints		[167]	2013	Constraints An Int. J.	36
OzturkTHO13 OzturkTHO13	C. Öztürk, S. Tunali, B. Hnich, M. Arslan Ornek	Balancing and scheduling of flexible mixed model assembly lines		[292]	2013	Constraints An Int. J.	36
HeinzSSW12 HeinzSSW12	S. Heinz, T. Schlechte, R. Stephan, M. Winkler	Solving steel mill slab design problems		[165]	2012	Constraints An Int. J.	12
LombardiM12 LombardiM12	M. Lombardi, M. Milano	Optimal methods for resource allocation and scheduling: a cross-disciplinary survey		[244]	2012	Constraints An Int. J.	35
LimtanyakulS12 LimtanyakulS12	K. Limtanyakul, U. Schwiegelshohn	Improvements of constraint programming and hybrid methods for scheduling of tests on vehicle prototypes		[236]	2012	Constraints An Int. J.	32
KovacsB11 KovacsB11	A. Kovács, J. Christopher Beck	A global constraint for total weighted completion time for unary resources		[209]	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		[325]	2011	Constraints An Int. J.	23

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Key	Authors	Title	LC	Cite	Year	Journal	Pages
BartakS11	BartakS11	R. Barták, Miguel A. Salido		[34]	2011	Constraints An Int. J.	5
SchuttFSW11	SchuttFSW11	A. Schutt, T. Feydy, Peter J. Stuckey, Mark G. Wallace		[331]	2011	Constraints An Int. J.	33
KovacsK11	KovacsK11	A. Kovács, T. Kis		[211]	2011	Constraints An Int. J.	24
LopesCSM10	LopesCSM10	Tony Minoru Tamura Lopes, André A. Ciré, Cid Carvalho de Souza, Arnaldo Vieira Moura		[245]	2010	Constraints An Int. J.	39
Simonis07	Simonis07	H. Simonis		[343]	2007	Constraints An Int. J.	30
Hooker06	Hooker06	John N. Hooker		[179]	2006	Constraints An Int. J.	19
Hooker05	Hooker05	John N. Hooker		[177]	2005	Constraints An Int. J.	17
VilimBC05	VilimBC05	P. Vilím, R. Barták, O. Cepek		[383]	2005	Constraints An Int. J.	23
BaptisteP00	BaptisteP00	P. Baptiste, Claude Le Pape		[29]	2000	Constraints An Int. J.	21
SchildW00	SchildW00	K. Schild, J. Würtz		[326]	2000	Constraints An Int. J.	23
SakkoutW00	SakkoutW00	Hani El Sakkout, M. Wallace		[324]	2000	Constraints An Int. J.	30
HeipckeCCS00	HeipckeCCS00	S. Heipcke, Y. Colombani, Cristina C. B. Cavalcante, Cid C. de Souza		[170]	2000	Constraints An Int. J.	8
BensanaLV99	BensanaLV99	E. Bensana, M. Lemaître, G. Verfaillie		[51]	1999	Constraints An Int. J.	7
BelhadjiI98	BelhadjiI98	S. Belhadji, A. Isli		[46]	1998	Constraints An Int. J.	9
PapaB98	PapaB98	Claude Le Pape, P. Baptiste		[295]	1998	Constraints An Int. J.	25
Zhou97	Zhou97	J. Zhou		[414]	1997	Constraints An Int. J.	29
Darby-DowmanLMZ97	Darby-DowmanLMZ97	K. Darby-Dowman, J. Little, G. Mitra, M. Zafalon		[86]	1997	Constraints An Int. J.	20
GrimesIOS14	GrimesIOS14	D. Grimes, G. Ifrim, B. O'Sullivan, H. Simonis		[151]	2014	Sustain. Comput. Informatics Syst.	16
Wallace96	Wallace96	M. Wallace		[387]	1996	Constraints An Int. J.	30
PrataAN23	PrataAN23	Bruno A. Prata, Levi R. Abreu, Marcelo S. Nagano		[311]	2024	Results in Control and Optimization	1
abs-2402-00459	abs-2402-00459	S. Nguyen, Dhananjay R. Thiruvady, Y. Sun, M. Zhang		[278]	2024	CoRR	null
AkramNHRS23	AkramNHRS23	Bilal Omar Akram, Nor Kamariah Noordin, F. Hashim, Mohd Fadlee A. Rasid, Mustafa Ismael Salman, Abdulrahman M. Abdulghani		[7]	2023	IEEE Access	16
YuraszeckMCCR23	YuraszeckMCCR23	F. Yuraszeck, E. Montero, D. Canut-de-Bon, N. Cuneo, M. Rojel		[405]	2023	IEEE Access	11
MontemanniD23	MontemanniD23	R. Montemanni, M. Dell'Amico		[267]	2023	Algorithms	1
GurPAE23	GurPAE23	S. Gür, M. Pinarbasi, Hacı Mehmet Alakas, T. Eren		[156]	2023	Central Eur. J. Oper. Res.	25
MontemanniD23a	MontemanniD23a	R. Montemanni, M. Dell'Amico		[266]	2023	EURO J. Comput. Optim.	1
ShaikhK23	ShaikhK23	Aftab Ahmed Shaikh, Abdullah Ayub Khan	NO	[335]	2023	Int. J. Electron. Secur. Digit. Forensics	12
AbreuNP23	AbreuNP23	Levi Ribeiro de Abreu, Marcelo Seido Nagano, Bruno A. Prata	NO	[90]	2023	Int. J. Prod. Res.	20

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Key	Authors	Title	LC	Cite	Year	Journal	Pages
IsikYA23 IsikYA23	Eyüp Ensar Isik, Seyda Topaloglu Yildiz, Özge Satir Akpunar	Constraint programming models for the hybrid flow shop scheduling problem and its extensions		[185]	2023	Soft Comput.	28
abs-2305-19888 abs-2305-19888	V. Heinz, A. Novák, M. Vlk, Z. Hanzálek	Constraint Programming and Constructive Heuristics for Parallel Machine Scheduling with Sequence-Dependent Setups and Common Servers		[169]	2023	CoRR	null
abs-2306-05747 abs-2306-05747	P. Tassel, M. Gebser, K. Schekotihin	An End-to-End Reinforcement Learning Approach for Job-Shop Scheduling Problems Based on Constraint Programming		[355]	2023	CoRR	null
abs-2312-13682 abs-2312-13682	G. Perez, G. Glorian, W. Suijlen, A. Lallouet	A Constraint Programming Model for Scheduling the Unloading of Trains in Ports: Extended		[299]	2023	CoRR	null
AbreuN22 AbreuN22	Levi Ribeiro de Abreu, Marcelo Seido Nagano	A new hybridization of adaptive large neighborhood search with constraint programming for open shop scheduling with sequence-dependent setup times		[89]	2022	Comput. Ind. Eng.	1
HeinzNVH22 HeinzNVH22	V. Heinz, A. Novák, M. Vlk, Z. Hanzálek	Constraint Programming and constructive heuristics for parallel machine scheduling with sequence-dependent setups and common servers		[168]	2022	Comput. Ind. Eng.	1
MullerMKP22 MullerMKP22	D. Müller, Marcus Gerhard Müller, D. Kress, E. Pesch	An algorithm selection approach for the flexible job shop scheduling problem: Choosing constraint programming solvers through machine learning		[271]	2022	Eur. J. Oper. Res.	18
PohlAK22 PohlAK22	M. Pohl, C. Artigues, R. Kolisch	Solving the time-discrete winter runway scheduling problem: A column generation and constraint programming approach		[304]	2022	Eur. J. Oper. Res.	16
BourreauGGLT22 BourreauGGLT22	E. Bourreau, T. Garaix, M. Gondran, P. La-comme, N. Tchernev	A constraint-programming based decomposition method for the Generalised Workforce Scheduling and Routing Problem (GWSRP)	NO	[68]	2022	Int. J. Prod. Res.	19
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	[336]	2022	Int. J. Prod. Res.	18
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	[403]	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		[346]	2022	Soft Comput.	38
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		[347]	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		[2]	2021	IEEE Access	14
VlkHT21 VlkHT21	M. Vlk, Z. Hanzálek, S. Tang	Constraint programming approaches to joint routing and scheduling in time-sensitive networks		[386]	2021	Comput. Ind. Eng.	1
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		[114]	2021	Comput. Oper. Res.	1
ZhangYW21 ZhangYW21	L. Zhang, C. Yu, T. N. Wong	A graph-based constraint programming approach for the integrated process planning and scheduling problem		[410]	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		[183]	2021	J. Sched.	22
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		[313]	2021	IEEE Trans Autom. Sci. Eng.	12
PandeyS21a PandeyS21a	V. Pandey, P. Saini	Constraint programming versus heuristic approach to MapReduce scheduling problem in Hadoop YARN for energy minimization		[293]	2021	J. Supercomput.	29

Table 5: Articles from bibtex

Key	Authors	Title	LC	Cite	Year	Journal	Pages
BadicaBI20 BadicaBI20	A. Badica, C. Badica, M. Ivanovic	Block structured scheduling using constraint logic programming	NO	[23]	2020	AI Commun.	17
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		[261]	2020	Comput. Ind. Eng.	1
AstrandJZ20 AstrandJZ20	As- M. Åstrand, M. Johansson, A. Zanarini	Underground mine scheduling of mobile machines using Constraint Programming and Large Neighborhood Search		[22]	2020	Comput. Oper. Res.	1
LunardiBLRV20 LunardiBLRV20	Lu- Willian T. Lunardi, Ernesto G. Birgin, P. Laborie, Débora P. Ronconi, H. Voos	Mixed Integer linear programming and constraint programming models for the online printing shop scheduling problem		[248]	2020	Comput. Oper. Res.	1
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		[314]	2020	Eur. J. Oper. Res.	18
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
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	[263]	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	[305]	2020	Int. J. Prod. 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		[321]	2020	Oper. Res. Forum	null
Novas19 Novas19	Juan M. Novas	Production scheduling and lot streaming at flexible job-shops environments using constraint programming		[283]	2019	Comput. Ind. Eng.	13
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		[109]	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	[281]	2019	Int. J. Netw. Comput.	16
WikarekS19 WikarekS19	J. Wikarek, P. Sitek	A Constraint-Based Declarative Programming Framework for Scheduling and Resource Allocation Problems		[394]	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		[41]	2019	CoRR	null
abs-1902-01193 abs-1902-01193	O. M. Alade, A. O. Amusat	Solving Nurse Scheduling Problem Using Constraint Programming Technique		[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		[159]	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		[133]	2019	CoRR	null
TangLWSK18 TangLWSK18	Tan- Y. Tang, R. Liu, F. Wang, Q. Sun, Amr A. Kandil	Scheduling Optimization of Linear Schedule with Constraint Programming	NO	[352]	2018	Comput. Aided Civ. Infrastructure Eng.	28
GedikKEK18 GedikKEK18	R. Gedik, D. Kalathia, G. Egilmez, E. Kirac	A constraint programming approach for solving unrelated parallel machine scheduling problem		[131]	2018	Comput. Ind. Eng.	11
PourDERB18 PourDERB18	Pour- 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		[307]	2018	Eur. J. Oper. Res.	12
GokgurHO18 GokgurHO18	B. Gökgür, B. Hnich, S. Özpeynirci	Parallel machine scheduling with tool loading: a constraint programming approach	NO	[144]	2018	Int. J. Prod. Res.	17
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		[411]	2018	IEEE Trans. Engineering Management	18

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Key	Authors	Title	LC	Cite	Year	Journal	Pages
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		[337]	2018	IEEE Trans. Syst. Man Cybern. Syst.	16
NovaraNH16 NovaraNH16	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		[282]	2016	Comput. Chem. Eng.	17
Bonfietti16 Bonfietti16	A. Bonfietti	A constraint programming scheduling solver for the MPOpt programming environment	NO	[60]	2016	Intelligenza Artificiale	13
DoulabiRP16 DoulabiRP16	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	[103]	2016	INFORMS J. Comput.	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		[406]	2016	J. Intell. Manuf.	17
GoelSHFS15 GoelSHFS15	V. Goel, M. Slusky, Willem-Jan van Hove, Kevin C. Furman, Y. Shao	Constraint programming for LNG ship scheduling and inventory management		[143]	2015	Eur. J. Oper. Res.	12
WangMD15 WangMD15	T. Wang, N. Meskens, D. Duvivier	Scheduling operating theatres: Mixed integer programming vs. constraint programming		[391]	2015	Eur. J. Oper. Res.	13
EvenSH15a EvenSH15a	C. Even, A. Schutt, Pascal Van Hentenryck	A Constraint Programming Approach for Non-Preemptive Evacuation Scheduling		[111]	2015	CoRR	null
NovasH14 NovasH14	Juan M. Novas, Gabriela P. Henning	Integrated scheduling of resource-constrained flexible manufacturing systems using constraint programming		[286]	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
NovasH12 NovasH12	Juan M. Novas, Gabriela P. Henning	A comprehensive constraint programming approach for the rolling horizon-based scheduling of automated wet-etch stations		[285]	2012	Comput. Chem. Eng.	17
HachemiGR11 HachemiGR11	Ha- Nizar El Hachemi, M. Gendreau, L. Rousseau	A hybrid constraint programming approach to the log-truck scheduling problem		[157]	2011	Ann. Oper. Res.	16
TopalogluO11 TopalogluO11	S. Topaloglu, I. Ozkarahan	A constraint programming-based solution approach for medical resident scheduling problems		[363]	2011	Comput. Oper. Res.	10
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
KelbelH11 KelbelH11	J. Kelbel, Z. Hanzálek	Solving production scheduling with earliness/tardiness penalties by constraint programming		[197]	2011	J. Intell. Manuf.	10
NovasH10 NovasH10	Juan M. Novas, Gabriela P. Henning	Reactive scheduling framework based on domain knowledge and constraint programming		[284]	2010	Comput. Chem. Eng.	20
ZeballosQH10 ZeballosQH10	Zebal- L. Zeballos, O. Quiroga, Gabriela P. Henning	A constraint programming model for the scheduling of flexible manufacturing systems with machine and tool limitations		[408]	2010	Eng. Appl. Artif. Intell.	20
BocewiczBB09 BocewiczBB09	Bo- 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	Garri- A. Garrido, M. Arangú, E. Onaindia	A constraint programming formulation for planning: from plan scheduling to plan generation		[125]	2009	J. Sched.	30
LiessM08 LiessM08	O. Liess, P. Michelon	A constraint programming approach for the resource-constrained project scheduling problem		[231]	2008	Ann. Oper. Res.	12
GarridoOS08 GarridoOS08	Garri- A. Garrido, E. Onaindia, Óscar Sapena	Planning and scheduling in an e-learning environment. A constraint-programming-based approach		[126]	2008	Eng. Appl. Artif. Intell.	11
MalikMB08 MalikMB08	Abid M. Malik, J. McInnes, Peter van Beek	Optimal Basic Block Instruction Scheduling for Multiple-Issue Processors Using Constraint Programming	NO	[255]	2008	Int. J. Artif. Intell. Tools	18
KhayatLR06 KhayatLR06	Khay- Ghada El Khayat, A. Langevin, D. Riopel	Integrated production and material handling scheduling using mathematical programming and constraint programming		[199]	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	[323]	2006	INFORMS J. Comput.	9

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Key	Authors	Title	LC	Cite	Year	Journal	Pages
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	[349]	2006	Int. J. Parallel Emergent Distributed Syst.	19
ZeballosH05 ZeballosH05	L. Zeballos, Gabriela P. Henning	A Constraint Programming Approach to FMS Scheduling. Consideration of Storage and Transportation Resources		[407]	2005	Inteligencia Artif.	10
KuchcinskiW03 KuchcinskiW03	K. Kuchcinski, C. Wolinski	Global approach to assignment and scheduling of complex behaviors based on HCDG and constraint programming		[217]	2003	J. Syst. Archit.	15
Tsang03 Tsang03	Edward P. K. Tsang	Constraint Based Scheduling: Applying Constraint Programming to Scheduling Problems		[367]	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	[247]	2002	J. Oper. Res. Soc.	8
Timpe02 Timpe02	C. Timpe	Solving planning and scheduling problems with combined integer and constraint programming		[361]	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		[257]	2001	Ann. Oper. Res.	17
Mason01 Mason01	Andrew J. Mason	Elastic Constraint Branching, the Wedelin/Carmen Lagrangian Heuristic and Integer Programming for Personnel Scheduling		[258]	2001	Ann. Oper. Res.	38
KorbaaYG00 KorbaaYG00	O. Korbaa, P. Yim, J. Gentina	Solving Transient Scheduling Problems with Constraint Programming		[206]	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		[246]	2000	Eur. J. Control	4
FalaschiGMP97 FalaschiGMP97	M. Falaschi, M. Gabbrielli, K. Marriott, C. Palamidessi	Constraint Logic Programming with Dynamic Scheduling: A Semantics Based on Closure Operators		[113]	1997	Inf. Comput.	27
Tay92 Tay92	David B. H. Tay	COPS: A Constraint Programming Approach to Resource-Limited Project Scheduling	NO	[356]	1992	Comput. J.	null
FetgoD22 FetgoD22	S��verine Betmbe Fetgo, Cl��mentin Tayou Djam��gni	Horizontally Elastic Edge-Finder Algorithm for Cumulative Resource Constraint Revisited		[115]	2022	Oper. Res. Forum	null
BaptisteB18 BaptisteB18	P. Baptiste, N. Bonifas	Redundant cumulative constraints to compute preemptive bounds		[26]	2018	Discret. Appl. Math.	10
BeldiceanuCDP11 BeldiceanuCDP11	N. Beldiceanu, M. Carlsson, S. Demassey, E. Poder	New filtering for the <i>cumulative</i> constraint in the context of non-overlapping rectangles		[43]	2011	Ann. Oper. Res.	24
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		[366]	2011	Comput. Ind. Eng.	7
abs-0907-0939 abs-0907-0939	T. Petit, E. Poder	The Soft Cumulative Constraint		[301]	2009	CoRR	null
KovacsB08 KovacsB08	A. Kov��cs, J. Christopher Beck	A global constraint for total weighted completion time for cumulative resources		[208]	2008	Eng. Appl. Artif. Intell.	7
ArtiguesR00 ArtiguesR00	C. Artigues, F. Roubellat	A polynomial activity insertion algorithm in a multi-resource schedule with cumulative constraints and multiple modes		[17]	2000	Eur. J. Oper. Res.	20
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		[303]	2004	Eur. J. Oper. Res.	16

Table 6: Keywords by Work and Domains

Work	Concepts	Classification	Constraints	ProgLanguages	CPSystems	Areas	Industries	Benchmarks	Algorithm
AalianPG23 [1]	scheduling, order, activity, resource, machine, preempt, transportation, make span, flow shop		cumulative, nooverlap, end-beforestart, alwaysin		cplex, cpo	steel cable	mining industry	real world	
AbohashimaEG21 [2]	scheduling, order, resource, machine, transportation, cmax, setup time	parallel machine		python	gurobi			generated instance, real world, https://, github benchmark, real world, http://, https://	
AbreuN22 [89]	scheduling, order, job, task, resource, machine, preempt, transportation, inventory, make span, cmax, completion time, flow time, tardiness, flow shop, job shop, open shop, setup time, distributed, batch process	single machine	cumulative, nooverlap	python	cplex	medical			
AbreuNP23 [90]									
AbrilSB05 [3]	scheduling, order, distributed, multi agent					railway		http://	
Acuna-AgostMFG09 [4]	scheduling, order, transportation, re scheduling					railway			
AggounB92 [5]									
AkkerDH07 [369]	scheduling, order, job, resource, machine, precedence, preempt, sequence dependent setup, make span, cmax, completion time, lateness, release date, due date	RCPSP, single machine, parallel machine	cumulative		cplex				
AkramNHRSA23 [7]	scheduling, order, task, resource, machine, preempt, completion time, distributed		bin packing	python	or tools	agriculture, medical		benchmark, https://	
AlesioNBG14 [99]	scheduling, order, job, task, activity, resource, preempt, make span, completion time, job shop, open shop, distributed		alldifferent		cplex, OPL	automotive, automotive		benchmark, http://	
AlizdehS20 [9]									
AngelsmarkJ00 [10]	scheduling, order, job, task, resource, job shop								
AntuoriHHEN21 [11]	scheduling, order, job, task, resource, machine, precedence, transportation, tardiness, job shop, release date, due date			java , C++	gecode, choco	car manufacturing, automotive, automotive	automotive industry	supplementary material, http:// , https://	
ArbaouiY18 [12]									
ArmstrongGOS21 [13]	scheduling, order, job, task, resource, machine, precedence, preempt, sequence dependent setup, transportation, make span, cmax, completion time, flow shop, job shop, setup time		alternative constraint, cumulative, diffn, table constraint, circuit, bin packing	java , prolog	cplex, gecode, CHIP, cpo, chuffed, sicstus, mini zinc	robot	packaging industry	benchmark, instance generator, real world, industrial partner, industry partner, supplementary material, https://, zenodo	energetic reasoning
ArmstrongGOS22 [14]	scheduling, order, job, task, resource, machine, transportation, make span, cmax, completion time, flow shop, re scheduling	parallel machine	cumulative, nooverlap	prolog	OPL, sicstus			benchmark, real world, https://	
AronssonBK09 [15]									

Table 6: Keywords by Work and Domains

Work	Concepts	Classification	Constraints	ProgLanguages	CPSystems	Areas	Industries	Benchmarks	Algorithm
ArtiguesBF04 [16]	scheduling, order, job, resource, machine, precedence, preempt, sequence dependent setup, make span, cmax, completion time, job shop, release date, setup time, batch process		disjunctive	C++	ilog solver, ilog scheduler			benchmark	edge finding
ArtiguesR00 [17]									
ArtiouchineB05 [18]	scheduling, order, job, activity, resource, machine, precedence, preempt, make span, completion time, job shop, open shop, release date, re scheduling	single machine, parallel machine	cumulative, disjunctive		ilog scheduler	aircraft		generated instance, random instance, http://	edge finding, not first, not last
Astrand0F21 [20]	scheduling, order, job, task, activity, resource, machine, precedence, make span, job shop, open shop		disjunctive		gencode	forestry, agriculture, farming, satellite, robot	mineral industry, mining industry, potash industry	benchmark, generated instance, real world, real life, https://	
Astrand21 [19]									
AstrandJZ18 [21]	scheduling, order, task, activity, resource, machine, make span	single machine	cumulative, disjunctive		gencode	hoist, robot	potash industry	https://	time tabling
AstrandJZ20 [22]	scheduling, order, job, task, activity, resource, machine, precedence, make span, completion time, flow shop, job shop, open shop, due date, setup time, re scheduling	parallel machine	alldifferent, disjunctive	C++	gencode	robot	mineral industry, mining industry, potash industry	benchmark, real world, real life, http:// , https://	
BadicaBI20 [23]									
BadicaBIL19 [24]									
Baptiste09 [25]	scheduling								
BaptisteB18 [26]									
BaptisteLPN06 [27]									
BaptisteLV92 [30]									
BaptisteP00 [29]	scheduling, order, job, task, activity, resource, precedence, preempt, make span, cmax, flow shop, job shop, release date, due date, re scheduling	RCPSp	cumulative, disjunctive	C++	CHIP, claire, ilog scheduler			benchmark, http://	edge finder, edge finding, energetic reasoning
BaptisteP97 [28]	scheduling, order, job, task, activity, resource, precedence, preempt, make span, flow shop, job shop, release date, due date, re scheduling	RCPSp	cumulative, disjunctive	C++	CHIP, claire			benchmark	edge finder, edge finding
BarlattCG08 [31]	scheduling, job, task, resource, machine, transportation, flow shop, job shop, setup time					pipeline, automotive, automotive dairies		real world	
Bartak02 [33]	scheduling, order, job, task, activity, resource, machine, precedence, make span, lateness, job shop, continuous process		cumulative, disjunctive	prolog	sicstus			real life, http://	edge finding, time tabling
Bartak02a [32]									
BartakS11 [34]	scheduling, order, task, resource, distributed, multi agent		cumulative		OPL			random instance, real world, real life, http://	

Table 6: Keywords by Work and Domains

Work	Concepts	Classification	Constraints	ProgLanguages	CPSystems	Areas	Industries	Benchmarks	Algorithm
BartoliniBBLM14 [35]	scheduling, job, task, activity, resource, machine, make span, tardiness		alternative constraint, cumulative			super computer		http://	
BarzegaranZP20 [36]									
BeckDF97 [37]	scheduling, order, job, task, activity, resource, machine, precedence, inventory, make span, job shop, release date, due date, re scheduling	single machine	cumulative			robot		benchmark, real world	edge finding
BeckFW11 [38]									
BegB13 [39]									
BehrensLM19 [40]									
BeldiceanuC02 [42]	scheduling, order, task, activity, resource, machine, producer consumer	single machine	cumulative	prolog	CHIP, sicstus	crew scheduling		benchmark, random instance, real life	sweep
BeldiceanuCDP11 [43]									
BeldiceanuCP08 [44]	scheduling, order, task, resource		cumulative, disjunctive	prolog	CHIP, sicstus	rectangle packing, perfect square		benchmark	edge finding, sweep
BeldiceanuP07 [45]	scheduling, order, task, resource, preempt, release date, due date		cumulative, disjunctive						sweep
BelhadjiI98 [46]	scheduling, order, job, task, resource, machine, precedence, preempt, job shop, release date, due date	jssp	disjunctive					real life	
BenderWS21 [47]									
BenediktMH20 [48]	scheduling, order, job, task, machine, preempt, job shop, re scheduling	single machine	nooverlap, end-beforestart		gurobi	robot		benchmark, generated instance, random instance, https://, github	
BenediktSMVH18 [49]	scheduling, order, job, resource, machine, preempt, job shop	single machine, parallel machine	nooverlap		gurobi	energy price		generated instance, random instance, https://, github	
BeniniBGM06 [50]	scheduling, order, task, activity, resource, precedence, make span, tardiness, setup time, distributed		cumulative		cplex, eclipse, ilog solver	pipeline, automotive, automotive		real life	
BensanaLV99 [51]	order				cplex, ilog solver	satellite, earth observation		benchmark, http://, http://	
BertholdHLMs10 [52]	scheduling, order, job, resource, precedence, preempt, completion time	RCPSP, psplib	cumulative, disjunctive		cplex				
BessiereHMQW14 [53]	scheduling, order, job, task, resource, machine, setup time		alldifferent		choco	satellite	textile industry	benchmark, real life, http://	
BillautHL12 [54]	scheduling, order, job, resource, machine, precedence, make span, cmax, completion time, tardiness, flow shop, job shop, open shop, release date, due date, setup time	single machine			cplex, mistral			random instance	

Table 6: Keywords by Work and Domains

Work	Concepts	Classification	Constraints	ProgLanguages	CPSystems	Areas	Industries	Benchmarks	Algorithm
Bit-Monnot23 [55]	scheduling, order, job, task, activity, resource, machine, precedence, make span, job shop, open shop, distributed, lazy clause generation		cumulative, disjunctive		mistral, or tools, cpo, mini zinc			benchmark, real world, https://, github	
BocewiczBB09 [56]									
BofillCSV17 [57]	scheduling, order, activity, resource, machine, precedence, preempt, make span, cmax, lazy clause generation	RCPSP, psplib	cumulative		Z3			benchmark, http://	energetic reasoning
BofillEGPSV14 [58]	scheduling, order, task, machine, lazy clause generation				cplex, gecode, mini zinc			industrial instance, http://	time tabling
BofillGSV15 [59]	scheduling, order, machine				cplex			industrial instance, http://	time tabling
BogaerdTW19 [370]	scheduling, order, job, machine, precedence, completion time, tardiness, job shop, setup time	single machine, parallel machine	nooverlap	c	cplex	railway		benchmark, http:// , https://	
Bonfietti16 [60]									
BonfiettiLBM11 [61]	scheduling, order, job, task, activity, resource, machine, precedence, make span, job shop	RCPSP	cumulative		ilog solver	hoist, robot		benchmark, generated instance, industrial instance, http://	
BonfiettiLBM12 [62]	scheduling, order, job, activity, resource, machine, precedence, make span, job shop, distributed	RCPSP	cumulative		ilog solver	hoist, robot		benchmark, http://	time tabling
BonfiettiLM14 [63]	scheduling, order, job, task, activity, resource, machine, precedence, make span, job shop, open shop, distributed	RCPSP, psplib	cumulative					benchmark, real world, http://	
BonfiettiZLM16 [64]	scheduling, order, activity, resource, precedence, make span	RCPSP	cumulative, disjunctive		or tools	automotive, automotive	automotive industry, control system industry	benchmark, generated instance, industrial instance, real world, https://, github	edge sweep, finder,
BoothNB16 [65]	scheduling, order, task, activity, resource, machine, precedence, distributed, re scheduling		cumulative, disjunctive, nooverlap	C++	cplex	medical, robot		real world	
BoucherBVBL97 [66]									
BoudreaultSLQ22 [67]	scheduling, order, task, activity, resource, machine, precedence, preempt, transportation, make span, cmax, distributed, lazy clause generation	RCPSP, psplib	cumulative, disjunctive		or tools, chuffed, mini zinc	offshore	ship repair industry	benchmark, generated instance, real world, real life, industrial partner, supplementary material, https://, github	edge finding, not first, not last, energetic reasoning
BourreauGGLT22 [68]									
BreitingerL95 [69]									
BurtLPS15 [70]	scheduling, order, job, task, resource, machine, precedence, make span, completion time, tardiness, job shop	single machine, parallel machine	cumulative		cplex, gurobi, gecode, mini zinc			benchmark, real world, industry partner, http://	

Table 6: Keywords by Work and Domains

Work	Concepts	Classification	Constraints	ProgLanguages	CPSystems	Areas	Industries	Benchmarks	Algorithm
Caballero23 [71]	scheduling, resource	RCPSP						http:// , https://	
CampeauG22 [72]	scheduling, order, job, task, activity, resource, precedence, make span, completion time	RCPSP	cumulative, nooverlap, end-beforestart, alwaysin	python	cplex		mining industry	real world, real life, https://	edge finding
CappartS17 [73]	scheduling, order, job, task, activity, resource, machine, precedence, completion time, job shop, re scheduling		alternative constraint, cumulative, nooverlap, span constraint		OPL	railway		random instance, real life, https:// , bitbucket	
CarchraeBF05 [74]	scheduling, order, task, make span								
Caseau97 [75]	scheduling, order, job, task, resource, preempt, make span, job shop		cumulative			robot		benchmark	edge finding
CauwelaertDMS16 [76]	scheduling, order, job, task, activity, resource, machine, precedence, preempt, sequence dependent setup, make span, completion time, job shop, setup time, batch process		cumulative, disjunctive	java		container terminal		benchmark, real life, http:// , https:// , bitbucket	edge finding, not first, not last
CestaOS98 [77]	scheduling, job, resource					robot			
ChapadosJR11 [78]	scheduling, order, task, activity		cumulative				retail industry		time tabling
ChuX05 [79]	scheduling, order, job, resource, machine, completion time, release date, due date	single machine	cumulative, disjunctive		eclipse				
CireCH13 [80]	scheduling, order, job, task, resource, machine, precedence, make span, tardiness		cumulative, circuit		cplex, OPL				
ClercPBJ11 [81]	scheduling, order, activity, resource, precedence, completion time, release date, due date, distributed		alldifferent, cumulative	java	choco, CHIP			benchmark, http://	edge finding, energetic reasoning, time tabling, sweep
CobanH10 [82]	scheduling, order, job, preempt, make span, tardiness, distributed, re scheduling		disjunctive, circuit		cplex, OPL				
ColT19 [83]	scheduling, order, job, resource, machine, precedence, make span, job shop	jssp	disjunctive, nooverlap	java	or tools, cpo, mini zinc			benchmark, real world, http:// , https:// , github	
Colombani96 [84]	scheduling, order, job, task, activity, resource, machine, precedence, preempt, job shop, release date, due date		disjunctive		CHIP				
DannaP03 [85]	scheduling, order, job, activity, resource, machine, tardiness, job shop		disjunctive		cplex, ilog solver, ilog scheduler			benchmark	
Darby-DowmanLMZ97 [86]	scheduling, order, task, resource, machine, make span	single machine	disjunctive, span constraint	prolog	cplex, eclipse	aircraft, pipeline		benchmark, real world, real life, http://	
Davenport10 [87]	scheduling, order, resource, completion time, tardiness, release date, due date				cplex	semiconductor			

Table 6: Keywords by Work and Domains

Work	Concepts	Classification	Constraints	ProgLanguages	CPSystems	Areas	Industries	Benchmarks	Algorithm
DavenportKRSH07 [88]	scheduling, order, job, activity, resource, machine, precedence, preempt, sequence dependent setup, make to order, inventory, job shop, setup time		disjunctive, bin packing	C++	cplex, CHIP		steel industry		
Dejemeppe16 [91]									
DejemeppeCS15 [92]	scheduling, order, job, task, activity, resource, machine, precedence, preempt, sequence dependent setup, make span, completion time, tardiness, job shop, release date, setup time	single machine	cumulative, disjunctive			container terminal		benchmark, generated instance, real world, http://, https://, bit-bucket	edge finding, not first, not last
DejemeppeD14 [93]	scheduling, order, job, activity, resource, precedence, make span, job shop, setup time		cumulative			medical, patient		https://, bit-bucket	
Demasse03 [94]									
DemirovicS18 [95]	scheduling, order, task, activity, resource, precedence		cumulative, disjunctive		gurobi, mini zinc			benchmark, real world, http://, https://	time tabling
Derrien15 [96]									
DerrienP14 [97]	scheduling, order, activity, resource, make span	psplib	cumulative	java	choco			random instance	edge finding, energetic reasoning, sweep
DerrienPZ14 [98]	scheduling, order, job, activity, resource, machine, precedence, make span, re scheduling	RCPSP	cumulative		choco, CHIP			benchmark, random instance, real world, http://	
DilkinaDH05 [100]	scheduling, order, job, machine, precedence, make span, job shop								
DoomsH08 [101]	scheduling, order, job, task, activity, resource, machine, completion time, job shop	RCPSP					services industry		
DoulabiRP14 [102]	scheduling, order, task, activity, resource, due date		bin packing		cplex	medical, nurse, patient			
DoulabiRP16 [103]									
EdisO11 [104]	scheduling, job, task, activity, resource, machine, preempt, make span, completion time, flow time, lateness, tardiness, due date	parallel machine	cumulative, nooverlap, bin packing		cplex, OPL				
EfthymiouY23 [105]	scheduling, order, job, task, machine, make span, job shop, setup time, re scheduling	jssp	cumulative, disjunctive	python	or tools	satellite, hoist, pipeline, electroplating		benchmark, generated instance, random instance, industrial instance, real life, https://	
ElkhyariGJ02 [106]	scheduling, task, activity, resource, machine, precedence, preempt, make span, due date, re scheduling	RCPSP	cumulative, disjunctive, table constraint						
ElkhyariGJ02a [107]									
ErtlK91 [108]									

Table 6: Keywords by Work and Domains

Work	Concepts	Classification	Constraints	ProgLanguages	CPSystems	Areas	Industries	Benchmarks	Algorithm
EscobetPQPRA19 [109]	scheduling, order, job, task, activity, resource, machine, job shop, release date, due date, distributed, batch process		alternative constraint, circuit, nooverlap		cplex, OPL	energy dairy price,	food industry, manufacturing industry	http:// , https://	
EvenSH15 [110]	scheduling, order, task, resource, machine, preempt, transportation, completion time, distributed		cumulative, disjunctive		choco			real world, real life, http://	sweep
EvenSH15a [111]	scheduling, order, task, resource, machine, preempt, transportation, completion time, distributed		cumulative, disjunctive	java	choco			real world, real life, http://	sweep
FahimiOQ18 [112]	scheduling, order, job, task, resource, machine, precedence, preempt, sequence dependent setup, make span, completion time, lateness, job shop, open shop, due date, setup time, distributed, lazy clause generation, batch process	RCPSP, psplib	alldifferent, cumulative, disjunctive		choco			benchmark, random instance, https://	edge finding, not first, not last, time tabling, sweep
FalaschiGMP97 [113]	scheduling, order			prolog					
FanXG21 [114]	scheduling, order, job, task, resource, machine, precedence, preempt, no preempt, make span, completion time, flow time, tardiness, flow shop, job shop, due date, setup time, distributed, batch process	single machine, parallel machine		java , python	cplex, gurobi, eclipse	semiconductor	manufacturing industry	benchmark, https://	max flow
FetgoD22 [115]									
FontaineMH16 [116]	scheduling, order, job, task, resource, machine, precedence, make span, completion time, job shop	parallel machine	disjunctive		gurobi, CHIP, mini zinc			benchmark, https://	
FortinZDF05 [117]	scheduling, order, task, activity, resource, precedence, make span, temporal constraint reasoning	psplib						http://	
FrankK05 [118]	scheduling, order, job, task, resource, precedence, due date					satellite, air-craft		benchmark	
FriedrichFMRST14 [119]									
FrimodigS19 [120]	scheduling, order, job, task, resource, machine, job shop		cumulative, regular expression, bin packing	python	cplex, gecode, mini zinc	medical, physician, nurse, patient, radiation therapy		benchmark, real world, https://	
FroehnerTR19 [121]									
FrostD98 [122]	scheduling, order						power industry		
GalleguillosKSB19 [123]	scheduling, order, job, activity, resource, machine, make span, distributed, re scheduling	jssp	alternative constraint, cumulative	python	or tools	datacenter, super computer		http:// , https://	
GarganiR07 [124]	order, resource, machine, inventory		bin packing	C++	OPL	steel mill	steel industry	real life, http://	
GarridoAO09 [125]	scheduling, order, task, resource, precedence, make span, re scheduling		disjunctive	java	choco, cpo			benchmark, http://	
GarridoOS08 [126]	scheduling, order, task, activity, resource, machine, make span			java , c	choco, cpo			real world, http://	

Table 6: Keywords by Work and Domains

Work	Concepts	Classification	Constraints	ProgLanguages	CPSystems	Areas	Industries	Benchmarks	Algorithm
GayHLS15 [127]	scheduling, order, task, activity, resource, precedence, make span	RCPSP, psplib	cumulative, disjunctive					benchmark, bit-bucket	edge finding, time tabling
GayHS15 [128]	scheduling, order, task, resource, precedence, preempt		cumulative, disjunctive, table constraint		gecode, choco, or tools			http://, https://, bit-bucket	time tabling, sweep
GaySS14 [130]	scheduling, order, job, activity, resource, machine, precedence, make span, completion time, job shop, setup time, manpower, continuous process		cumulative, disjunctive			steel mill		real life	sweep
GedikKEK18 [131]	scheduling, order, job, task, resource, machine, preempt, sequence dependent setup, transportation, make span, cmax, completion time, tardiness, due date, setup time	single machine, parallel machine	cumulative, nooverlap		cplex	medical, nurse	manufacturing industry	benchmark, http://, https://	
GeibingerKKMMW21 [132]	scheduling, distributed				cplex, gurobi, gecode, or tools, mini zinc	medical, physician, nurse, patient, COVID	pharmaceutical industry	real world, http://, https://	
GeibingerMM19 [134]	scheduling, order, job, task, activity, resource, precedence, make span, completion time, release date, due date, re scheduling	RCPSP	alternative constraint, cumulative, nooverlap, endbeforestart	java	cplex, gecode, cpo, mini zinc	automotive, automotive		benchmark, generated instance, real world, real life, industrial partner, http://, https://	time tabling
GeibingerMM21 [135]	scheduling, order, job, task, activity, resource, machine, precedence, completion time, tardiness, release date, due date, lazy clause generation	RCPSP	cumulative, disjunctive		cplex, chuffed	cpo, nurse		benchmark, generated instance, real world, real life, github	time tabling
GeitzGSSW22 [136]	scheduling, order, job, task, resource, machine, precedence, preempt, sequence dependent setup, transportation, make span, completion time, lateness, job shop, setup time, producer consumer, lazy clause generation, batch process	RCPSP, jssp, single machine	cumulative		OPL	robot		real world, real life, http://, https://, github	not last, sweep
GelainPRVW17 [137]	scheduling, order, resource							benchmark, real life, http://	
Geske05 [138]									
GilesH16 [139]	scheduling, order, task, activity, resource, transportation, inventory, setup time		cumulative, disjunctive		cplex	pipeline	chemical industry, chemical processing industry, petrochemical industry		
GingrasQ16 [140]									
Godet21a [141]									
GodetLHS20 [142]									
GoelSHFS15 [143]	scheduling, order, task, activity, resource, machine, precedence, transportation, inventory, setup time		cumulative, disjunctive, nooverlap, alwaysin		cplex, OPL, cpo	pipeline		http://	
GokgurHO18 [144]									

Table 6: Keywords by Work and Domains

Work	Concepts	Classification	Constraints	ProgLanguages	CPSystems	Areas	Industries	Benchmarks	Algorithm
GoldwaserS17 [145]	scheduling, order, resource, machine, transportation, due date, lazy clause generation		cumulative, disjunctive	python	gurobi, gencode	torpedo	steel industry	generated instance, instance generator, http:// , https:// , github benchmark	
Goltz95 [146]	scheduling, order, job, task, resource, machine, precedence, completion time, job shop, due date		cumulative, disjunctive	prolog	CHIP				edge finding
GomesHS06 [147]									
GrimesH10 [148]	scheduling, order, job, task, resource, machine, precedence, sequence dependent setup, make span, cmax, flow shop, job shop, open shop, setup time, batch process		cumulative, disjunctive				steel industry	benchmark	edge finding, time tabling
GrimesH11 [149]	scheduling, order, job, task, resource, machine, precedence, make span, cmax, completion time, tardiness, flow shop, job shop, open shop, release date, due date, lazy clause generation	RCPSP	cumulative, disjunctive		cplex, solver, ilog scheduler			benchmark, http://	edge finding
GrimesHM09 [150]	scheduling, order, job, task, resource, machine, precedence, make span, job shop, open shop		disjunctive	java	choco, mistral, ilog scheduler			benchmark	edge finding, not last
GrimesIOS14 [151]	scheduling, order, task, activity, resource, machine, preempt, completion time, due date, distributed, re scheduling		disjunctive		cplex, CHIP	energy price, real time pricing, HVAC		real world, real life, http://	
GroleazNS20 [153]	scheduling, order, job, resource, machine, precedence, preempt, inventory, tardiness, job shop, release date, due date, setup time		cumulative, circuit, nooverlap		or tools, cpo		food industry	benchmark, industrial instance, https://	
GroleazNS20a [152]									
GruianK98 [154]									
GuSS13 [155]	scheduling, order, activity, resource, machine, precedence, make span, distributed, lazy clause generation	single machine	cumulative					benchmark	edge finder, edge finding, time tabling
GurPAE23 [156]	scheduling, order, resource, machine, inventory, distributed, re scheduling		cumulative		cplex	physician, nurse, patient, COVID		real life, https://	
HachemiGR11 [157]	scheduling, order, job, task, activity, resource, precedence, transportation, make span, job shop		alldifferent		cplex, OPL, ilog scheduler	forestry, crew scheduling	food industry		
HananKP21 [158]	scheduling, order, job, task, resource, machine, precedence, preempt, make span, cmax, completion time, lateness, tardiness, job shop, release date, due date	RCPSP, parallel machine	cumulative	python	claire	pipeline		generated instance, random instance, https://	energetic reasoning
He0GLW18 [160]	scheduling, order, machine, precedence, transportation, distributed, multi agent, re scheduling			python	gurobi	energy price, real time pricing		real world, http:// , https:// , bit-bucket	

Table 6: Keywords by Work and Domains

Work	Concepts	Classification	Constraints	ProgLanguages	CPSystems	Areas	Industries	Benchmarks	Algorithm
HebrardTW05 [161]	scheduling, order, job, machine, job shop								
HechingH16 [162]	scheduling, order, job, task, manpower, re scheduling		circuit, nooverlap		cplex, OPL	medical, patient		real world	
HeinzB12 [163]	scheduling, order, job, activity, resource, machine, precedence, completion time, tardiness, release date, due date	single machine	alternative constraint, cumulative		cplex, OPL, ilog solver, ilog scheduler				
HeinzKB13 [164]	scheduling, order, job, resource, machine, tardiness, job shop, release date	single machine	cumulative		cplex				
HeinzNVH22 [168]	scheduling, order, job, task, activity, resource, machine, precedence, preempt, sequence dependent setup, make span, completion time, flow shop, setup time, distributed, re scheduling	parallel machine	alternative constraint, cumulative, nooverlap		gurobi	robot, crew scheduling		benchmark, generated instance, real world, http:// , https://	
HeinzS11 [166]									
HeinzSB13 [167]	scheduling, order, job, resource, machine, precedence, preempt, completion time, release date, due date	RCPSP, psplib, single machine	cumulative, disjunctive		cplex, mini zinc	satellite		benchmark, http://	edge finding, time tabling
HeinzSSW12 [165]	order, task, inventory		bin packing		cplex	steel mill	process industry, in-steel	real world, http://	
HeipckeCCS00 [170]	scheduling, order, job, task, activity, resource, machine, precedence, preempt, make span, completion time, job shop, release date, due date	RCPSP, single machine	cumulative, disjunctive					benchmark, instance generator, http://	
HentenryckM04 [171]	scheduling, order, job, task, activity, resource, machine, precedence, make span, completion time, tardiness, job shop, open shop, due date		cumulative, disjunctive					benchmark	
HentenryckM08 [172]	order		bin packing			steel mill			
HermenierDL11 [173]	scheduling, order, task, resource, machine, precedence, completion time, producer consumer, distributed		alldifferent, cumulative, disjunctive, table constraint, bin packing		choco	datacenter		http://	
HillTV21 [174]	scheduling, order, job, task, activity, resource, machine, precedence, preempt, make span, flow shop, release date, lazy clause generation	RCPSP, psplib, single machine	alternative constraint, cumulative					real world, https://	
HoYCLLC18 [175]									
HoeveGSL07 [372]									
Hooker04 [176]	scheduling, order, task, resource, machine, precedence, make span, tardiness, release date, distributed		cumulative, disjunctive, circuit		cplex, OPL, ilog scheduler			random instance	
Hooker05 [177]	scheduling, order, job, task, resource, machine, precedence, make span, tardiness, release date, due date, distributed		cumulative, disjunctive, circuit		cplex, OPL, ilog scheduler			random instance	edge finding

Table 6: Keywords by Work and Domains

Work	Concepts	Classification	Constraints	ProgLanguages	CPSystems	Areas	Industries	Benchmarks	Algorithm
Hooker06 [179]	scheduling, order, job, task, resource, machine, precedence, make span, tardiness, release date, due date		cumulative, disjunctive, circuit		cplex, OPL, ilog scheduler			random instance, http://	
Hooker17 [180]	scheduling, order, job, resource, tardiness, due date		circuit					benchmark, random instance	
HookerY02 [181]	scheduling, order, job, resource, machine	RCPSP	cumulative, disjunctive					http://	
HoundjiSWD14 [182]	scheduling, order, resource, machine, precedence, transportation, inventory, due date	single machine	circuit					generated instance, http:// , https:// , bit-bucket	
HubnerGSV21 [183]	scheduling, order, job, task, activity, resource, machine, precedence, preempt, transportation, inventory, make span, cmax, completion time, tardiness, due date	RCPSP	alternative constraint, cumulative, endbeforestart	c	cplex, gurobi	automotive, automotive		benchmark, real life, http:// , https://	
IfrimOS12 [184]	scheduling, order, job, task, resource, machine, due date, distributed, re scheduling		disjunctive			datacenter, energy price		real life, http://	
IsikYA23 [185]	scheduling, order, job, task, resource, machine, precedence, preempt, sequence dependent setup, transportation, make span, cmax, completion time, tardiness, flow shop, job shop, release date, due date, setup time, distributed, batch process	single machine, parallel machine	cumulative, circuit, nooverlap, endbeforestart		cplex, OPL	medical, robot	steel industry	benchmark, generated instance, real world, real life, http:// , https://	energetic reasoning
JourdanFRD94 [186]									
JuvinHHL23 [187]	scheduling, order, job, task, resource, machine, precedence, preempt, make span, cmax, completion time, flow shop, job shop, due date, setup time	jssp, parallel machine	alldifferent, cumulative, disjunctive, nooverlap, endbeforestart	C++	mistral, cpo			benchmark, supplementary material, http:// , https:// , github	edge finding, not first, not last
JuvinHL23 [188]	scheduling, order, job, task, machine, precedence, make span, cmax, completion time, tardiness, flow shop, job shop, setup time		nooverlap, endbeforestart		cplex, cpo			real world, https://	
KamarainenS02 [189]	scheduling, order, job, activity, resource, machine, precedence, preempt, transportation, job shop				eclipse			benchmark, real world, http://	
Kameugne15 [190]	scheduling, task, resource, preempt, completion time		cumulative					http://	edge finding, not first, not last
KameugneFGOQ18 [191]	scheduling, order, task, resource, precedence, make span, cmax, completion time	RCPSP	cumulative, disjunctive	java	choco, CHIP			benchmark, real world, http:// , https://	not first, not last, energetic reasoning, time tabling, sweep

Table 6: Keywords by Work and Domains

Work	Concepts	Classification	Constraints	ProgLanguages	CPSystems	Areas	Industries	Benchmarks	Algorithm
KameugneFND23 [192]	scheduling, order, task, resource, machine, precedence, preempt, make span, cmax, completion time, lazy clause generation	RCPSP, psplib	cumulative, dis-junctive	java	choco, CHIP			benchmark, http:// , https://	edge finder, edge finding, not first, not last, energetic reasoning, time tabling, sweep
KameugneFSN11 [193]	scheduling, order, job, task, resource, precedence, preempt, make span, completion time, job shop, release date	RCPSP, psplib	cumulative, dis-junctive		gecode			benchmark, http://	edge finding, not first, not last, time tabling
KameugneFSN14 [194]	scheduling, order, job, task, resource, precedence, preempt, make span, completion time, job shop, release date	RCPSP, psplib	cumulative, dis-junctive		gecode, CHIP			benchmark, random instance, http://	edge finder, edge finding, not first, not last, energetic reasoning, time tabling
KanetAG04 [195]									
KelarevaTK13 [196]	scheduling, order, task, activity, resource, precedence, transportation, inventory, make span, tardiness, setup time, re scheduling, lazy clause generation		alldifferent		cplex, mini zinc	satellite, earth observation		real world, http://	
KelbelH11 [197]	scheduling, order, job, task, resource, machine, precedence, preempt, inventory, make span, completion time, tardiness, job shop, release date, due date, distributed	jssp	cumulative, dis-junctive		cplex, OPL, ilog solver			benchmark, generated instance, random instance, http://	edge finder, edge finding
KeriK07 [198]	scheduling, order, job, activity, resource, precedence, make span, cmax, tardiness, job shop, due date, temporal constraint reasoning	RCPSP		C++				http://	edge finding
KhayatLR06 [199]	scheduling, order, job, task, activity, resource, machine, precedence, preempt, make span, cmax, job shop, due date, setup time				cplex, OPL			benchmark, real life, http://	
KhemmoudjPB06 [200]	scheduling, order, resource, stock level, distributed		cumulative	C++	CHIP			real world	
KimCMLLP23 [201]	scheduling, order, job, machine, precedence, transportation, make span, tardiness, job shop, open shop, due date, setup time, distributed	parallel machine	nooverlap	python	gurobi, or tools		steel industry	benchmark, real world, https:// , zenodo	
KlankeBYE21 [202]	scheduling, order, job, task, activity, resource, machine, make span, completion time, job shop, due date, producer consumer, re scheduling, batch process		cumulative, dis-junctive, circuit, nooverlap	python	cplex, gurobi, or tools, CHIP		food processing industry	benchmark, random instance, real life, https://	
KletzanderM17 [203]	scheduling, order, resource, machine, transportation	parallel machine				torpedo	steel industry	http://	
KoehlerBFFHPSSS21 [204]	scheduling, order, job, task, resource, machine, precedence, make span, flow time, lateness, tardiness, flow shop, job shop	single machine	alldifferent, cumulative, disjunctive, circuit	python, c	cplex, gurobi, or tools, OPL, Z3, chuffed, mini zinc	robot, cable tree, automotive, automotive		benchmark, real world, http:// , https:// , github	

Table 6: Keywords by Work and Domains

Work	Concepts	Classification	Constraints	ProgLanguages	CPSystems	Areas	Industries	Benchmarks	Algorithm
KorbAAYG00 [206] KorbAAYG99 [205] KoschB14 [207]	scheduling, order, job, resource, machine, make span, cmax, completion time, lateness, job shop, release date, due date, distributed, multi agent, batch process	RCPSP, single machine	cumulative, disjunctive, bin packing	java	cplex, choco	semiconductor		benchmark	
KovacsB08 [208] KovacsB11 [209]	scheduling, order, job, activity, resource, machine, precedence, preempt, make span, completion time, flow time, tardiness, flow shop, job shop, release date, due date, distributed	single machine, parallel machine	cumulative, disjunctive	C++	ilog solver, ilog scheduler			benchmark	edge finding
KovacsEKV05 [210] KovacsK11 [211]	scheduling, job, resource, precedence, job shop, setup time scheduling, order, job, task, resource, machine, sequence dependent setup, transportation, completion time, tardiness, flow shop, job shop, release date, due date	single machine		C++	cplex, gcode, ilog solver			real life http://	
KovacsTKSG21 [214] KovacsV04 [212] KovacsV06 [213]	scheduling, order, job, task, resource, machine, precedence, preempt, inventory, tardiness, flow shop, job shop, release date, due date, distributed, re scheduling scheduling, order, job, task, resource, machine, precedence, make span, job shop scheduling, order, job, task, resource, machine, precedence, make span, tardiness, job shop, setup time	RCPSP, single machine single machine RCPSP, single machine	cumulative cumulative, disjunctive cumulative		cplex, gurobi, or tools ilog scheduler ilog scheduler	automotive, automotive		benchmark, real world, supplementary material, http:// , https:// , github	edge finding
KreterSS15 [215] KreterSS17 [216]	scheduling, order, task, activity, resource, machine, preempt, make span, completion time, lazy clause generation scheduling, order, task, activity, resource, machine, precedence, preempt, make span, completion time, lazy clause generation	RCPSP, parallel machine RCPSP, parallel machine	cumulative, diffn cumulative, diffn, alwaysin		cplex, CHIP, chuffed, mini zinc cplex, CHIP, cpo, chuffed, mini zinc			benchmark, http://	edge finding
KrogtLPHJ07 [371] KuchcinskiW03 [217] Kumar03 [218]	scheduling, order, job, activity, resource, machine, precedence, inventory, job shop, due date scheduling, order, resource, precedence, distributed scheduling, order, activity, resource, producer consumer		circuit circuit	prolog java	OPL	aircraft, semiconductor pipeline		real world benchmark	bi partite matching, maximum matching, max flow

Table 6: Keywords by Work and Domains

Work	Concepts	Classification	Constraints	ProgLanguages	CPSystems	Areas	Industries	Benchmarks	Algorithm
Laborie09 [219]	scheduling, order, job, task, activity, resource, machine, precedence, preempt, sequence dependent setup, inventory, tardiness, job shop, release date, due date, setup time		alternative constraint, cumulative, disjunctive, nooverlap, endbeforestart	c	OPL, cpo	satellite, aircraft		benchmark, real world, http://	
Laborie18a [220]	scheduling, job, task, resource, machine, precedence, release date, due date		alternative constraint, cumulative		OPL, cpo, ilog scheduler			benchmark, real world, real life, http:// , https://	energetic reasoning
LaborieRSV18 [221]	scheduling, order, job, task, activity, resource, machine, precedence, sequence dependent setup, transportation, inventory, make span, tardiness, flow shop, job shop, release date, due date, setup time, manpower, distributed, re scheduling, batch process	RCPSP, psplib, parallel machine	alternative constraint, cumulative, disjunctive, nooverlap, endbeforestart, alwaysin, span constraint	java , python, C++ , c	cplex, gecode, OPL, CHIP, cpo, ilog solver, ilog scheduler	satellite, aircraft, pipeline, semiconductor, robot, container terminal, railway	chemical industry, petro chemical industry	benchmark, real world, http:// , https://	edge finding
LacknerMMWW21 [222]	scheduling, order, job, task, machine, make span, lateness, tardiness, flow shop, release date, due date, setup time, batch process	single machine, parallel machine	cumulative, nooverlap, endbeforestart		cplex, gurobi, or tools, OPL, cpo, chuffed, mini zinc	semiconductor, oven scheduling	electronics industry, manufacturing industry, steel industry	benchmark, instance generator, random instance, real life, industrial partner, supplementary material, https://	
LacknerMMWW23 [223]	scheduling, order, job, task, machine, make span, lateness, tardiness, job shop, release date, due date, setup time, batch process	single machine, parallel machine	alternative constraint, cumulative, disjunctive, nooverlap, endbeforestart, bin packing		cplex, gurobi, or tools, OPL, cpo, chuffed, mini zinc	semiconductor, oven scheduling	electronics industry, manufacturing industry, steel industry	benchmark, instance generator, random instance, real life, industrial partner, http:// , https:// , zenodo	time tabling
LahimerLH11 [224]	scheduling, order, job, task, resource, machine, precedence, preempt, make span, cmax, completion time	RCPSP, parallel machine	disjunctive	C++	ilog scheduler			benchmark, http://	energetic reasoning
LauLN08 [225]	scheduling, order, job, resource, machine, transportation, inventory, flow shop, job shop, distributed							benchmark, real world	
Layfield02 [226]									
LetortBC12 [227]	scheduling, order, task, resource, machine, precedence, make span	psplib	cumulative, bin packing	java , prolog	choco, sicstus	CHIP, datacenter		benchmark, random instance, http://	edge finding, sweep
LetortCB13 [228]	scheduling, order, task, resource, machine, precedence, make span	RCPSP, psplib	cumulative, disjunctive, bin packing	java , prolog	choco, sicstus			benchmark, random instance, http://	edge finding, energetic reasoning, sweep
LetortCB15 [229]	scheduling, order, job, task, resource, machine, precedence, make span	psplib	cumulative, bin packing	java , prolog	choco, sicstus	CHIP,		benchmark, generated instance, random instance, http://	edge finding, sweep

Table 6: Keywords by Work and Domains

Work	Concepts	Classification	Constraints	ProgLanguages	CPSystems	Areas	Industries	Benchmarks	Algorithm
LiFJZLL22 [230]	scheduling, order, job, task, machine, transportation, make span, completion time, flow time, tardiness, flow shop, job shop, setup time, buffer capacity, distributed, batch process	single machine			OPL	robot		benchmark	
LiessM08 [231]	scheduling, order, job, task, activity, resource, machine, precedence, preempt, make span, cmax, job shop	RCPSP, psplib	cumulative, dis-junctive	C++				benchmark, http://	edge finding
LimBTBB15 [234]	scheduling, order, job, machine, tardiness, job shop, multi agent, re scheduling					HVAC		benchmark, http://	time tabling
LimHTB16 [233]	scheduling, order, activity, machine, distributed, multi agent, re scheduling		cumulative			energy price, real time pricing, HVAC		real world, http://	
LimRX04 [232]	scheduling, order, job, machine, preempt, transportation, completion time					container terminal		generated instance	
Limtanyakul07 [235]									
LimtanyakulS12 [236]	scheduling, order, job, activity, resource, machine, precedence, completion time, tardiness, release date, due date		cumulative, dis-junctive, table constraint, bin packing		cplex, scheduler	ilog robot, automotive, automotive	automotive industry	benchmark, generated instance, random instance, real life, industrial partner, http://	edge finding, not first, not last, energetic reasoning
LiuCGM17 [238]	scheduling, order, task, activity, machine, transportation, cmax			python	or tools, mini zinc		tourism industry	http:// , https:// , github	
LiuJ06 [239]									
LiuLH19 [237]									
LombardiBM15 [240]	scheduling, order, job, task, activity, resource, machine, precedence, make span, completion time, job shop, distributed	RCPSP, psplib, jssp						benchmark, real world	
LombardiBMB11 [241]	scheduling, order, task, activity, resource, machine, precedence, make span, completion time	RCPSP	cumulative	C++		hoist		benchmark, industrial instance, real life	
LombardiM09 [242]	scheduling, order, task, activity, resource, precedence, preempt, make span, completion time	RCPSP			ilog solver			instance generator, real world	
LombardiM10 [243]	scheduling, order, task, activity, resource, precedence, make span, completion time	RCPSP	cumulative, dis-junctive		ilog solver			benchmark, real world	
LombardiM12 [244]	scheduling, order, job, task, activity, resource, machine, precedence, preempt, sequence dependent setup, transportation, inventory, make span, completion time, tardiness, flow shop, job shop, due date, setup time, manpower, distributed, re scheduling, lazy clause generation	RCPSP, psplib, parallel machine	cumulative, dis-junctive, circuit		or tools	aircraft	chemical industry	benchmark, real world	edge finding, energetic reasoning

Table 6: Keywords by Work and Domains

Work	Concepts	Classification	Constraints	ProgLanguages	CPSystems	Areas	Industries	Benchmarks	Algorithm
LopesCSM10 [245]	scheduling, order, job, task, activity, resource, precedence, transportation, inventory, stock level, make span, job shop, due date, distributed, re scheduling		alldifferent, dis-junctive, table constraint	C++	ilog solver, ilog scheduler	pipeline	oil industry	benchmark, real world, http://	max flow
LopezAKYG00 [246]									
LorigeonBB02 [247]									
Lunardi20 [249]									
LunardiBLRV20 [248]	scheduling, order, job, activity, resource, machine, precedence, preempt, make span, completion time, tardiness, flow shop, job shop, due date, setup time, re scheduling		nooverlap, end-beforestart	python	cplex			benchmark, generated instance, random instance, https:// , github	
Madi-WambaB16 [250]	scheduling, order, job, task, resource, precedence		cumulative	java	choco, CHIP			benchmark, generated instance, random instance, real world, http:// , https://	
Madi-WambaLOBM17 [251]									
MakMS10 [252]									
MalapertN19 [253]	scheduling, order, job, task, resource, machine, sequence dependent setup, make span, cmax, completion time, flow time, setup time	single machine, parallel machine	alternative constraint, cumulative, nooverlap, alwaysin		cplex, cpo	semiconductor		benchmark, generated instance, industrial instance, http:// , https://	
Malik08 [254]									
MalikMB08 [255]									
MaraveliasG04 [256]					OZ eclipse, solver	ilog	aircraft, railway	real life	
MartinPY01 [257]	scheduling, order, task, resource, machine, transportation, re scheduling		circuit	prolog					
Mason01 [258]	scheduling, order, task, activity, transportation				cplex	nurse, crew scheduling, railway		http://	
Mehdizadeh-Somarin23 [259]	scheduling, order, job, task, machine, precedence, preempt, make span, cmax, completion time, tardiness, flow shop, job shop, setup time, multi agent, re scheduling	jssp, single machine, parallel machine		python	cplex	COVID, robot		random instance, https://	
MelgarejoLS15 [6]	scheduling, order, job, task, resource, machine, precedence, transportation, tardiness, setup time	single machine	alldifferent, dis-junctive, table constraint, circuit, nooverlap		cplex			benchmark, real world, http://	
Menana11 [260]									

Table 6: Keywords by Work and Domains

Work	Concepts	Classification	Constraints	ProgLanguages	CPSystems	Areas	Industries	Benchmarks	Algorithm
MengZRZL20 [261]	scheduling, order, job, task, resource, machine, precedence, preempt, no preempt, sequence dependent setup, transportation, make span, cmax, completion time, flow time, tardiness, flow shop, job shop, open shop, setup time, distributed, batch process	parallel machine	alternative constraint, nooverlap, endbeforestart		cplex, gurobi, gecode, or tools, OPL	semiconductor, robot		benchmark, supplementary material, https://	
Mercier-AubinGQ20 [262]	scheduling, order, job, task, activity, resource, machine, precedence, preempt, sequence dependent setup, make span, completion time, tardiness, job shop, due date, setup time, lazy clause generation	RCPSP	cumulative, disjunctive, circuit	python, C++	mini zinc		manufacturing industry, textile industry	industrial instance, industrial partner, http:// , https://	
MokhtarzadehTNF20 [263]									
MonetteDD07 [264]	scheduling, order, job, task, resource, machine, precedence, preempt, no preempt, make span, completion time, job shop, open shop		disjunctive		gecode			benchmark	edge finding, not first, not last
MonetteDH09 [265]									
MontemanniD23 [267]	scheduling, order, task, resource, machine, distributed		circuit	python	gurobi, or tools	robot		benchmark, supplementary material, https://	
MontemanniD23a [266]	scheduling, order, task, transportation, completion time		circuit	python	or tools			benchmark, http:// , https://	
MossigeGSMC17 [268]	scheduling, order, job, task, activity, resource, machine, precedence, preempt, make span, completion time, job shop, distributed	RCPSP, single machine	cumulative, disjunctive	prolog	CHIP, sicstus	robot, rectangle packing		benchmark, generated instance, random instance, real world, industrial partner, http://	
MouraSCL08 [270]	scheduling, order, activity, resource, precedence, preempt, transportation, inventory, distributed		disjunctive, table constraint	C++	ilog solver, ilog scheduler	pipeline			max flow
MouraSCL08a [269]									
MullerMKP22 [271]	scheduling, order, job, task, activity, resource, machine, precedence, preempt, make span, cmax, completion time, job shop, due date, setup time, batch process		disjunctive, circuit	java, python	cplex, gecode, choco, or tools, OPL, chuffed, mini zinc	semiconductor, robot		benchmark, random instance, real world, https:// , github	
MurinR19 [272]	scheduling, order, job, task, activity, resource, machine, precedence, transportation, make span, completion time, job shop, setup time		alternative constraint, nooverlap, endbeforestart		cplex, OPL	patient, robot		benchmark, real life, https:// , github	
MurphyMB15 [273]	scheduling, order, task, activity, resource, machine, re scheduling		cumulative, disjunctive, circuit	java	choco			real world, http://	

Table 6: Keywords by Work and Domains

Work	Concepts	Classification	Constraints	ProgLanguages	CPSystems	Areas	Industries	Benchmarks	Algorithm
Muscettola02 [274]	scheduling, order, job, activity, resource, precedence, cmax, job shop							http://	max flow, edge finding
NattafAL15 [275]	scheduling, order, task, activity, resource, preempt, make span, release date, due date	RCPSP	cumulative	C++	cplex			generated instance, http://	energetic reasoning, sweep
NattafAL17 [276]	scheduling, order, job, task, activity, resource, make span, release date		cumulative, disjunctive	C++	cplex			real world, http://	edge finding, energetic reasoning
NattafM20 [277]	scheduling, order, job, resource, machine, make span, completion time, flow time, setup time	single machine, parallel machine	cumulative, nooverlap		cplex, cpo	semiconductor		benchmark, industrial instance, http://, https://	
NishikawaSTT18 [279]									
NishikawaSTT18a [280]									
NishikawaSTT19 [281]									
NovaraNH16 [282]	scheduling, order, job, task, activity, resource, machine, precedence, sequence dependent setup, make span, completion time, tardiness, due date, setup time, manpower, re scheduling, batch process		alternative constraint, cumulative, disjunctive, nooverlap, endbeforestart		cplex, OPL		pharmaceutical industry	benchmark, http://	
Novas19 [283]	scheduling, order, job, task, activity, resource, machine, precedence, sequence dependent setup, transportation, inventory, make span, cmax, completion time, flow time, lateness, tardiness, flow shop, job shop, release date, due date, setup time, distributed	parallel machine	cumulative, nooverlap, endbeforestart		cplex, OPL	semiconductor, medical, robot		benchmark, https://	
NovasH10 [284]	scheduling, order, job, task, activity, resource, machine, precedence, make span, completion time, lateness, tardiness, due date, setup time, manpower, re scheduling, batch process				OPL, ilog scheduler	pipeline		http://	
NovasH12 [285]	scheduling, order, job, task, activity, resource, machine, precedence, transportation, make span, completion time				OPL, solver, scheduler	ilog ilog	hoist, semiconductor, robot, electroplating, container terminal		
NovasH14 [286]	scheduling, order, job, task, activity, resource, machine, precedence, transportation, make span, completion time, job shop, buffer capacity	single machine, parallel machine			OPL, solver, scheduler	ilog ilog	robot	benchmark, http://	
OddiPCC03 [287]	scheduling, order, task, activity, resource, machine, precedence, preempt, completion time, distributed	single machine		java			satellite, earth observation	benchmark, http://	

Table 6: Keywords by Work and Domains

Work	Concepts	Classification	Constraints	ProgLanguages	CPSystems	Areas	Industries	Benchmarks	Algorithm
OuelletQ13 [288]	scheduling, order, task, resource, precedence, preempt, make span, completion time	RCPSP, psplib	cumulative, disjunctive		choco			benchmark, http://	edge finder, edge finding, not first, not last, energetic reasoning, time tabling, sweep
OuelletQ18 [289]	scheduling, order, task, resource, precedence, make span, completion time	RCPSP, psplib	cumulative, disjunctive	java	choco			benchmark, https://	edge finding, not first, not last, energetic reasoning, time tabling
OuelletQ22 [290]	scheduling, order, task, activity, resource, preempt, completion time, lazy clause generation		cumulative, disjunctive	java	choco, mini zinc	nurse		benchmark, random instance, https:// , github	edge finding, not first, not last, energetic reasoning, time tabling, sweep
OujanaAYB22 [291]	scheduling, order, job, task, resource, machine, precedence, preempt, sequence dependent setup, make to order, make span, completion time, tardiness, flow shop, job shop, open shop, due date, setup time, buffer capacity, distributed, batch process	parallel machine	disjunctive, nooverlap, span constraint		OPL, cpo	COVID, robot	food industry, steel industry	benchmark, industrial instance, real world, real life, https://	
OzturkTHO13 [292]	scheduling, order, job, task, activity, resource, machine, precedence, preempt, make span, cmax, completion time, flow shop, setup time		cumulative, disjunctive		cplex, OPL, CHIP, ilog solver			real world, real life, http://	edge finding
PandeyS21a [293]	scheduling, order, job, task, activity, resource, machine, precedence, make span, completion time, flow shop, distributed, re scheduling	single machine, parallel machine	alternative constraint, cumulative, endbeforestart		cplex, OPL	semiconductor		benchmark, https://	
PapaB98 [295]	scheduling, order, job, task, activity, resource, machine, preempt, make span, cmax, completion time, flow shop, job shop, due date, setup time, distributed, re scheduling	jssp	cumulative, disjunctive, table constraint	C++	CHIP, claire, ilog solver	hoist		benchmark, http://	edge finder, edge finding, energetic reasoning
PapeB97 [294]									
ParkUJR19 [296]									
PembertonG98 [297]									
PerezGSL23 [298]	scheduling, order, task, activity, resource, machine, transportation, inventory, make span, completion time, re scheduling		cumulative, table constraint			steel mill, nurse, container terminal		generated instance, real world	in-real
PesantRR15 [300]	scheduling, order, activity, transportation, lazy clause generation		cumulative, table constraint		gurobi, gecode, ilog solver			http://	
PoderB08 [302]									
PoderBS04 [303]									

Table 6: Keywords by Work and Domains

Work	Concepts	Classification	Constraints	ProgLanguages	CPSystems	Areas	Industries	Benchmarks	Algorithm
PohlAK22 [304]	scheduling, order, job, activity, resource, machine, precedence, sequence dependent setup, transportation, inventory, completion time, lateness, tardiness, release date, setup time, re scheduling	single machine	cumulative, nooverlap	python	cplex, gurobi	aircraft		benchmark, real world, http:// , https://	
Polo-MejiaALB20 [305]									
PopovicCGNC22 [306]	scheduling, order, task, activity, resource, machine, transportation, make span, completion time		cumulative, nooverlap, alwaysin	C++ , prolog	cplex, sicstus	CHIP, pipeline	electricity industry	https://	
PourDERB18 [307]	scheduling, order, job, task, machine, transportation				cplex, or tools	crew scheduling, railway		benchmark, generated instance, real world, real life, http://	
PovedaAA23 [308]	scheduling, order, job, task, activity, resource, precedence, preempt, make span, job shop, release date, lazy clause generation	RCPSp	cumulative, disjunctive	python	cplex, chuffed, zinc	cpo, mini	aircraft, automotive, automotive	benchmark, industrial instance, real world, real life, https:// , github benchmark, http://	
Pralet17 [309]	scheduling, order, job, activity, resource, machine, precedence, sequence dependent setup, make span, job shop, due date, setup time	RCPSp, psplib, jssp	cumulative, disjunctive		cplex, cpo	CHIP, satellite			
PraletLJ15 [310]	scheduling, order, job, task, activity, resource, precedence, make span, tardiness, job shop, due date	jssp	alternative constraint, nooverlap		cplex, cpo	satellite, earth observation			
PrataAN23 [311]	scheduling, order, job, task, activity, resource, machine, precedence, preempt, sequence dependent setup, inventory, make span, completion time, flow time, lateness, tardiness, flow shop, job shop, open shop, release date, due date, setup time, distributed, re scheduling, batch process	single machine, parallel machine	cumulative, circuit		CHIP	aircraft, robot, energy price, dairy	manufacturing industry	benchmark, real world, real life, http:// , https://	time tabling
Puget95 [312]	scheduling, order, job, task, activity, resource, transportation, job shop, manpower		disjunctive					benchmark	
QinDCS20 [314]	scheduling, order, job, task, activity, resource, machine, precedence, transportation, make span, cmax, completion time, tardiness, setup time	parallel machine	nooverlap, end-beforestart		cplex, OPL	container terminal, yard crane		benchmark, real life, https://	
QinWSLS21 [313]	scheduling, order, job, machine, preempt, make span, cmax, completion time, lateness, tardiness, flow shop, job shop, batch process	single machine		C++	cplex	agriculture, semiconductor		https://	
QuSN06 [315]									
QuirogaZH05 [316]									
RendIPHPR12 [317]	scheduling, order, job, machine, transportation, re scheduling			java		medical, nurse, patient		benchmark, real world, http://	

Table 6: Keywords by Work and Domains

Work	Concepts	Classification	Constraints	ProgLanguages	CPSystems	Areas	Industries	Benchmarks	Algorithm
RiahiNS018 [318]									
RodosekW98 [319]	scheduling, order, job, task, activity, resource, machine, transportation, make span		disjunctive, circuit	prolog	cplex, OPL, CHIP, eclipse	hoist, electroplating		benchmark	
RossiTHP07 [320]	scheduling, order, resource, inventory, stock level, distributed		cumulative		choco, OPL				
SacramentoSP20 [321]	scheduling, order, job, task, activity, resource, machine, precedence, preempt, transportation, make span, completion time, flow shop, job shop, open shop, distributed	parallel machine	alternative constraint, cumulative, disjunctive, nooverlap, endbeforestart	java	cplex, cpo	container terminal		benchmark, real world, real life, https:// , zenodo	
Sadykov04 [322]	scheduling, job, task, machine, precedence, preempt, completion time, lateness, release date, due date	single machine, parallel machine	disjunctive						edge finding
SadykovW06 [323]									
SakkoutW00 [324]	scheduling, order, job, task, activity, resource, machine, precedence, preempt, transportation, job shop, distributed, re scheduling	single machine	disjunctive, bin packing		cplex, CHIP	aircraft		benchmark, real world, http://	edge finder, edge finding
SchausHMCMD11 [325]	order, task		bin packing			steel mill	steel industry	benchmark, generated instance, http://	
SchildW00 [326]	scheduling, order, job, task, resource, machine, precedence, completion time, flow shop, job shop, distributed	single machine	disjunctive, bin packing		ilog solver	automotive, automotive	aerospace industry, automotive industry	http://	edge finding, time tabling
SchuttCSW12 [327]	scheduling, order, activity, resource, precedence, preempt, make span, lazy clause generation		cumulative		CHIP			benchmark, http://	
SchuttFS13 [329]	scheduling, order, job, task, activity, resource, machine, precedence, make span, completion time, job shop, lazy clause generation	RCPSP	alternative constraint, cumulative, disjunctive, span constraint		mini zinc			benchmark, http://	energetic reasoning, time tabling
SchuttFSW09 [330]	scheduling, order, job, task, activity, resource, machine, precedence, preempt, make span, open shop, lazy clause generation	psplib	cumulative, disjunctive		CHIP, eclipse	sicstus		benchmark, real world, http://	edge finder
SchuttFSW11 [331]	scheduling, order, task, activity, resource, machine, precedence, preempt, make span, completion time, open shop, lazy clause generation	RCPSP, psplib	cumulative, disjunctive, circuit, span constraint		CHIP, eclipse, ilog scheduler	sicstus, ilog		benchmark, real world, http://	edge finder, edge finding, not first, not last
SchuttS16 [332]	scheduling, order, activity, resource, machine, precedence, preempt, inventory, make span, manpower, producer consumer, lazy clause generation	RCPSP	cumulative		chuffed, ilog scheduler, mini zinc			benchmark, http://	
SchuttW10 [333]	scheduling, order, task, activity, resource, preempt, make span, release date, due date, lazy clause generation	RCPSP, psplib	cumulative, disjunctive	java	CHIP	rectangle packing		benchmark	edge finding, not first, not last

Table 6: Keywords by Work and Domains

Work	Concepts	Classification	Constraints	ProgLanguages	CPSystems	Areas	Industries	Benchmarks	Algorithm
SerraNM12 [334]	scheduling, order, activity, resource, machine, precedence, preempt, inventory, release date		cumulative, alwaysin		cplex, OPL			benchmark, real world, http://	
ShaikhK23 [335]									
ShiYXQ22 [336]									
ShinBBHO18 [337]	scheduling, order, job, task, activity, resource, machine, preempt, transportation, inventory					medical, physician, nurse, patient		real world, http:// , https:// , github benchmark, http://	
Siala15 [338]	scheduling, resource		disjunctive						
SialaAH15 [339]	scheduling, order, job, task, resource, machine, precedence, make span, cmax, tardiness, job shop, open shop, setup time, lazy clause generation	RCPSP, jssp	cumulative, disjunctive		mistral			benchmark, http:// , github	edge finding
SimoninAHL12 [340]	scheduling, order, task, activity, resource, precedence, preempt		cumulative, disjunctive, span constraint		CHIP	satellite			sweep
SimoninAHL15 [341]	scheduling, order, task, activity, resource, precedence, preempt, transportation, inventory, make span		cumulative, disjunctive, span constraint		CHIP	satellite, earth observation, pipeline, robot			sweep
Simonis07 [343]	scheduling, order, job, task, activity, resource, machine, sequence dependent setup, transportation, bill of material, job shop, release date, due date, setup time, producer consumer, re scheduling, batch process		alldifferent, cumulative, disjunctive, diffn, bin packing	prolog	CHIP, scheduler	ilog aircraft, medical, nurse, patient			bi partite matching, time tabling, sweep
Simonis95 [342]	scheduling, order, task, resource, machine, precedence, transportation, producer consumer		cumulative, diffn, circuit	prolog	CHIP	aircraft	food industry		
SimonisC95 [344]	scheduling, order, job, task, resource, machine, transportation, inventory, stock level, flow shop, job shop, due date, manpower, producer consumer, batch process, continuous process		cumulative, diffn	prolog	CHIP	aircraft, pipeline	food industry	real life	
SquillaciPR23 [345]	scheduling, order, task, activity, resource, distributed, multi agent		nooverlap	python	cplex	satellite, earth orbit, earth observation		benchmark, https:// , github	
SubulanC22 [346]	scheduling, order, task, activity, resource, machine, precedence, preempt, transportation, inventory, BOM, make span, completion time, tardiness, due date	RCPSP	cumulative, endbeforestart		cplex, OPL	offshore		benchmark, real world, real life, https://	
SunLYL10 [348]									
SureshMOK06 [349]									
SzerediS16 [350]	scheduling, order, task, activity, resource, machine, precedence, preempt, make span, lazy clause generation	RCPSP, psplib	cumulative		cplex, gecode, chuffed, mini zinc			benchmark, http://	

Table 6: Keywords by Work and Domains

Work	Concepts	Classification	Constraints	ProgLanguages	CPSystems	Areas	Industries	Benchmarks	Algorithm
TangB20 [351]	scheduling, order, job, resource, machine, precedence, make span, tardiness, flow shop, due date, batch process	single machine	endbeforestart, alwaysin, span constraint, bin packing	java	cplex, cpo	semiconductor	manufacturing industry	real world, https://	
TangLWSK18 [352]									
TardivoDFMP23 [353]	scheduling, order, task, activity, resource, precedence, preempt, make span, lazy clause generation	RCPSP, psplib	cumulative, disjunctive	C++	gecode, CHIP, mini zinc			benchmark, real world, https:// , github, bit-bucket	edge finding, not first, not last, energetic reasoning, time tabling, sweep
Tay92 [356]									
Teppan22 [357]									
Tesch16 [358]	scheduling, order, job, resource, precedence, make span, completion time	RCPSP, psplib	cumulative, disjunctive	C++				http://	edge finding, not first, not last, energetic reasoning, time tabling, sweep
Tesch18 [359]	scheduling, order, job, task, resource, machine, precedence, preempt, make span, completion time, lateness, release date, due date	RCPSP, psplib, single machine	cumulative					https://	edge finding, not last, energetic reasoning, time tabling, sweep
ThiruvadyBME09 [360]									
Timpe02 [361]	scheduling, order, job, task, activity, resource, machine, inventory, stock level, make span, due date, setup time, producer consumer		cumulative, disjunctive, diffn	C++	cplex, CHIP		chemical industry, process industry	http://	
Tom19 [362]									
TopalogluO11 [363]	scheduling, order, task, preempt, transportation, distributed, re scheduling				cplex, OPL, ilog solver	medical, physician, nurse, patient		real life, http://	time tabling
TouatBT22 [364]									
Touraivane95 [365]	scheduling, order, task			prolog		crew scheduling		real life	
TrojetHL11 [366]									
Tsang03 [367]	scheduling, resource							real life	time tabling
ValleMGT03 [368]									
VanczaM01 [373]	scheduling, order, task, resource, machine, precedence		disjunctive			robot		real world, real life, http://	
VerfaillieL01 [374]	scheduling, order, job, task, job shop, open shop				cplex, OPL	satellite, earth observation		http://	
Vilim02 [375]	scheduling, activity, resource, precedence, sequence dependent setup, setup time, batch process		cumulative, disjunctive						edge finding
Vilim03 [376]	scheduling, order, job, job shop, open shop		cumulative, disjunctive						edge finding, not last
Vilim04 [377]	scheduling, order, job, task, activity, resource, machine, precedence, sequence dependent setup, completion time, job shop, setup time, batch process		cumulative, disjunctive					benchmark, http://	edge finding, not last, sweep
Vilim05 [378]	scheduling, order, job, task, activity, resource, machine, precedence, preempt, make span, completion time, job shop, open shop		cumulative, disjunctive	C++				benchmark, http://	not last

Table 6: Keywords by Work and Domains

Work	Concepts	Classification	Constraints	ProgLanguages	CPSystems	Areas	Industries	Benchmarks	Algorithm
Vilim09 [379]	scheduling, order, job, activity, resource, precedence, preempt, completion time, job shop		cumulative		cpo			http://	edge finding, not first, not last, energetic reasoning
Vilim11 [381]	scheduling, order, task, activity, resource, machine, precedence, preempt, completion time, manpower	RCPSP, psplib	cumulative, disjunctive					benchmark, http://	edge finding, not last, energetic reasoning, time tabling, sweep
VilimBC04 [382]	scheduling, order, job, activity, resource, machine, precedence, make span, completion time, job shop, open shop, distributed		cumulative, disjunctive					benchmark, real life, http://	edge finding, not first, not last
VilimBC05 [383]	scheduling, order, job, task, activity, resource, machine, precedence, sequence dependent setup, make span, completion time, job shop, open shop, setup time, distributed, batch process		cumulative, disjunctive					benchmark, real life, http://	edge finding, not first, not last, sweep
VilimLS15 [384]	scheduling, order, job, task, activity, resource, machine, precedence, make span, cmax, completion time, job shop	RCPSP, psplib	cumulative, disjunctive, nooverlap		cplex, cpo	rectangle packing		benchmark, http://	time tabling
VillaverdeP04 [385]									
VlkHT21 [386]	scheduling, order, resource, precedence, completion time, tardiness, due date, distributed		alternative constraint, nooverlap		cplex, gurobi, Z3	robot, automotive, automotive		benchmark, random instance, industrial partner, http:// , https:// , github	
Wallace96 [387]	scheduling, order, job, task, activity, resource, machine, transportation, job shop, distributed, multi agent		disjunctive, circuit	prolog, lisp	OPL, eclipse, solver	CHIP, ilog	aircraft, robot, automotive, railway, automotive	automotive industry, process industry	time tabling
WallaceY20 [388]	scheduling, order, job, task, resource, machine, transportation, flow shop, job shop, lazy clause generation		cumulative, disjunctive, circuit		cplex, gurobi, gecode, chuffed, mini zinc	hoist, robot, electroplating, container terminal, yard crane		benchmark, random instance, real world, real life, http:// , https://	edge finding, time tabling
WangB20 [389]	scheduling, order, job, task, resource, machine, distributed		alldifferent		gurobi	aircraft		http:// , https:// , github	
WangB23 [390]	scheduling, order, job, task, resource, transportation, lazy clause generation		alldifferent		gurobi	aircraft, crew scheduling		random instance, real world, http://	
WangMD15 [391]	scheduling, order, job, task, activity, resource, precedence, make span, cmax, completion time, job shop, re scheduling		cumulative, nooverlap		cplex	medical, physician, nurse, patient		real world, real life, http:// , https://	time tabling
WatsonB08 [392]	scheduling, order, job, resource, machine, make span, cmax, completion time, job shop		disjunctive	C++	ilog scheduler			benchmark, real world	
WessenCS20 [393]	scheduling, order, job, task, precedence, make span, completion time, job shop, multi agent		circuit		gecode	robot		real world, http:// , https://	

Table 6: Keywords by Work and Domains

Work	Concepts	Classification	Constraints	ProgLanguages	CPSystems	Areas	Industries	Benchmarks	Algorithm
WikarekS19 [394]	scheduling, order, job, task, resource, machine, precedence, preempt, inventory, make span, cmax, flow shop, job shop, setup time, manpower, distributed, multi agent	RCPSP, jssp, fssp	cumulative, dis-junctive		eclipse	robot			
WinterMMW22 [395]	scheduling, order, job, task, resource, machine, precedence, completion time, tardiness, release date, due date, setup time, distributed	parallel machine	alternative constraint, nooverlap		cplex, gurobi, cpo	farming	agricultural industry, manufacturing industry	benchmark, real life, industrial partner, industry partner, supplementary material, https://, zenodo	edge finding, not first, not last, sweep
Wolf03 [396]	scheduling, order, job, task, activity, resource, machine, preempt, make span, completion time, job shop		cumulative, dis-junctive	java		pipeline		benchmark	edge finding, not first, not last, sweep
Wolfs05 [397]									
WolinskiKG04 [398]									
WolinskiKG04a [399]									
WuBB05 [400]	scheduling, job, resource, make span, release date				ilog scheduler			benchmark	
YangSS19 [401]	scheduling, order, task, activity, resource, machine, preempt, completion time, lazy clause generation		cumulative, dis-junctive	prolog	gcode, choco, or tools, CHIP, sicstus	rectangle packing		generated instance, https://	edge finding, not last, energetic reasoning
YoungFS17 [402]	scheduling, order, task, activity, resource, machine, precedence, preempt, make span, lazy clause generation	RCPSP, psplib	cumulative, dis-junctive		chuffed, mini zinc			benchmark, instance generator, http:// , https:// , github	time tabling
YunusogluY22 [403]									
YuraszeckMC23 [404]	scheduling, order, job, machine, precedence, preempt, make span, cmax, flow time, job shop, open shop, release date, due date, distributed	jssp	nooverlap					benchmark, http:// , https:// , github	
YuraszeckMCCR23 [405]	scheduling, order, job, task, activity, resource, machine, precedence, preempt, make span, cmax, flow time, flow shop, job shop, open shop, setup time, batch process	RCPSP, jssp, fssp	cumulative, endbeforestart		cplex, OPL		pharmaceutical industry	benchmark, real world, https:// , github	
ZarandiKS16 [406]	scheduling, order, job, task, resource, machine, preempt, transportation, make span, completion time, tardiness, flow shop, job shop, due date, distributed	single machine			ilog solver	robot		real world	time tabling
ZeballosH05 [407]	scheduling, order, job, task, activity, resource, machine, precedence, transportation, make span, completion time, tardiness, due date, buffer capacity				OPL, solver, scheduler	ilog robot		http://	

Table 6: Keywords by Work and Domains

Work	Concepts	Classification	Constraints	ProgLanguages	CPSystems	Areas	Industries	Benchmarks	Algorithm
ZeballosQH10 [408]	scheduling, order, job, task, activity, resource, machine, precedence, preempt, transportation, make span, cmax, completion time, tardiness, job shop, due date				cplex, eclipse, solver, scheduler	OPL, ilog, ilog	robot	benchmark, real world, http://	
ZhangJZL22 [409]	scheduling, order, job, task, resource, machine, precedence, transportation, make span, completion time, tardiness, flow shop, due date, setup time	single machine, parallel machine	alternative constraint, cumulative, nooverlap, endbeforestart				semiconductor	benchmark	
ZhangLS12 [412]									
ZhangW18 [411]	scheduling, order, job, resource, machine, precedence, preempt, transportation, make span, completion time, flow time, lateness, tardiness, flow shop, job shop, setup time, distributed, multi agent, re scheduling		cumulative, nooverlap		cplex, OPL, Z3	robot		benchmark, http://	
ZhangYW21 [410]	scheduling, order, job, task, activity, resource, machine, precedence, preempt, make span, cmax, job shop, release date, setup time, distributed, multi agent, re scheduling, batch process	RCPSP	disjunctive, endbeforestart		cplex	robot		benchmark, https://	
Zhou96 [413]	scheduling, order, job, task, machine, precedence, completion time, job shop, release date, due date		disjunctive	prolog	Z3				edge finding
Zhou97 [414]	scheduling, order, job, task, machine, precedence, preempt, completion time, job shop, release date, due date		cumulative, disjunctive	prolog	CHIP, scheduler	ilog		benchmark	edge finder, edge finding
ZhouGL15 [415]									
ZhuS02 [416]									
ZibranR11 [417]									
ZibranR11a [418]									
abs-0907-0939 [301]									
abs-1901-07914 [41]	scheduling, order, task, resource, machine, make span, distributed, multi agent			python	or tools, zinc	mini robot		benchmark, real world, http:// , https:// , github	
abs-1902-01193 [8]	scheduling, order, task, activity, resource			python, C++ , prolog	CHIP, solver	ilog	medical, nurse		time tabling
abs-1902-09244 [159]	scheduling, order, job, task, activity, resource, machine, precedence, transportation, inventory, make span, completion time, tardiness, flow shop, job shop, release date, due date, setup time	RCPSP	cumulative, endbeforestart		cplex, OPL	aircraft	food processing industry, steel industry	benchmark, real world, industry partner, https://	

Table 6: Keywords by Work and Domains

Work	Concepts	Classification	Constraints	ProgLanguages	CPSystems	Areas	Industries	Benchmarks	Algorithm
abs-1911-04766 [133]	scheduling, order, job, task, activity, resource, precedence, make span, completion time, release date, due date, re scheduling	RCPSP	alternative constraint, cumulative, disjunctive, nooverlap, endbeforestart	java	cplex, gencode, cpo, chuffed, mini zinc	automotive, automotive		benchmark, generated instance, instance generator, real world, real life, industrial partner, http:// , https:// , github	time tabling
abs-2211-14492 [347]	scheduling, order, job, task, activity, resource, machine, precedence, transportation, make span, cmax, completion time, tardiness, flow shop, job shop, due date, setup time, distributed	single machine	cumulative, disjunctive, bin packing	python	cplex, or tools	semiconductor		benchmark, generated instance, random instance, https://	
abs-2305-19888 [169]	scheduling, order, job, task, activity, resource, machine, precedence, preempt, sequence dependent setup, make span, cmax, completion time, flow shop, setup time, distributed, re scheduling	parallel machine	alternative constraint, cumulative, nooverlap		gurobi	robot		benchmark, generated instance, real world, http:// , https://	
abs-2306-05747 [355]	scheduling, order, job, task, resource, machine, precedence, preempt, make span, completion time, flow time, tardiness, flow shop, job shop, re scheduling	jssp	cumulative, disjunctive, nooverlap	java	choco			benchmark, industrial instance, real world, supplementary material, https:// , github	
abs-2312-13682 [299]	scheduling, order, task, activity, resource, machine, transportation, inventory, make span, re scheduling		cumulative, table constraint			steel mill, nurse, container terminal		generated instance, real world	
abs-2402-00459 [278]	scheduling, order, job, task, resource, machine, precedence, completion time, tardiness, job shop, due date, multi agent	single machine	cumulative, disjunctive, bin packing		or tools		mining industry	benchmark, generated instance, instance generator, real world, http:// , https:// , github	
asselGS23 [354]	scheduling, order, job, task, resource, machine, precedence, preempt, make span, completion time, flow time, tardiness, flow shop, job shop, re scheduling	jssp	cumulative, disjunctive, nooverlap	java	choco			benchmark, industrial instance, real world, supplementary material, https:// , github	
cp-Hooker05 [178]	scheduling, order, job, task, resource, machine, precedence, make span, tardiness, release date, due date		cumulative, disjunctive, circuit		cplex, OPL, ilog scheduler				
cpaior-GayHS15 [129]	scheduling, order, task, resource, machine, preempt, manpower	RCPSP, psplib	cumulative, disjunctive	java				benchmark, real world, https:// , bitbucket	edge finding, not first, not last, energetic reasoning, time tabling, sweep

Table 6: Keywords by Work and Domains

Work	Concepts	Classification	Constraints	ProgLanguages	CPSystems	Areas	Industries	Benchmarks	Algorithm
cpaior-SchuttFS13 [328]	scheduling, order, task, activity, resource, machine, precedence, preempt, make span, completion time, lazy clause generation	RCPSP, psplib	cumulative, dis-junctive, circuit		CHIP			benchmark, http://	edge finding, not last, energetic reasoning
cpaior-Vilim09 [380]	scheduling, order, task, activity, resource, preempt, completion time		cumulative		ilog scheduler				edge finding, not last, energetic reasoning

Table 7: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
Concepts	BOM	SubulanC22[346]		
Concepts	activity	<p>AalianPG23[1], PovedaAA23[308], Tar-divoDFMP23[353], CampeauG22[72], SubulanC22[346], KlankeBYE21[202], HubnerGSV21[183], AstrandJZ20[22], GeibingerMM19[134], MurinR19[272], abs-1902-09244[159], abs-1911-04766[133], AstrandJZ18[21], LaborieRSV18[221], BofilCSV17[57], CappartS17[73], Li-uCGM17[238], Pralet17[309], YoungFS17[402], KreterSS17[216], BonfiettiZLM16[64], CauwelaertDMS16[76], GilesH16[139], LimHTB16[233], SzerediS16[350], NovaraNH16[282], DejemeppeCS15[92], KreterSS15[215], LombardiBM15[240], BonfiettiLM14[63], DejemeppeD14[93], DerrienP14[97], DerrienPZ14[98], GaySS14[130], GrimesIOS14[151], NovasH14[286], GuSS13[155], cpaior-SchuttFS13[328], OzturkTHO13[292], BonfiettiLBM12[62], SchuttCSW12[327], Ser-raNM12[334], SimoninAHL12[340], LombardiM12[244], NovasH12[285], BonfiettiLBM11[61], ClercqPBJ11[81], LombardiBMB11[241], Vilim11[381], HachemiGR11[157], KovacsB11[209], SchuttFSW11[331], LombardiM10[243], LopesCSM10[245], NovasH10[284], ZeballosQH10[408], LombardiM09[242], Vilim09[379], cpaior-Vilim09[380], DoomsH08[101], MouraSCL08[270], LiessM08[231], DavenportKRSH07[88], KeriK07[198], BeniniBGM06[50], FortinZDF05[117], Vilim05[378], VilimBC05[383], ZeballosH05[407], HentenryckM04[171], Vilim04[377], VilimBC04[382], OddiPCC03[287], ElkhyariGJ02[106], Muscettola02[274], BaptisteP00[29], SakkoutW00[324], PapaB98[295], BaptisteP97[28]</p>	<p>Bit-Monnot23[55], YuraszekMCCR23[405], BoudreaultSLQ22[67], PopovicCGNC22[306], LunardiBLRV20[248], YangSS19[401], EscobetPQPRA19[109], Novas19[283], ShinBBHO18[337], BoothNB16[65], SchuttS16[332], VilimLS15[384], GoelSHFS15[143], DoulabiRP14[102], ChapadosJR11[78], SchuttFSW09[330], Gar-ridoOS08[126], KrogtLPHJ07[371], Simonis07[343], KhayatLR06[199], DannaP03[85], Bartak02[33], KamarainenS02[189], Ma-son01[258], RodosekW98[319]</p>	<p>PrataAN23[311], PerezGSL23[298], Squil-laciPR23[345], abs-2305-19888[169], abs-2312-13682[299], OuelletQ22[290], HeinzNVH22[168], MullerMKP22[271], PohlAK22[304], abs-2211-14492[347], Astrand0F21[20], GeibingerMM21[135], HillTV21[174], PandeyS21a[293], ZhangYW21[410], Mercier-AubinGQ20[262], QinDCS20[314], Sacra-mentoSP20[321], GalleguillosKSB19[123], abs-1902-01193[8], DemirovicS18[95], MossigeGSMC17[268], NattafAL17[276], GayHLS15[127], MurphyMB15[273], PesantRR15[300], PraletLJ15[310], NattafAL15[275], SimoninAHL15[341], WangMD15[391], AlesioNBG14[99], BartoliniBBLM14[35], KelarevaTK13[196], Schut-tFS13[329], HeinzB12[163], LimtanyakulS12[236], EdisO11[104], SchuttW10[333], Laborie09[219], ArtiouchineB05[18], Kumar03[218], Wolf03[396], BeldiceanuC02[42], Vilim02[375], Timpe02[361], HeipckeCCS00[170], BeckDF97[37], Colom-bani96[84], Wallace96[387], Puget95[312]</p>
Concepts	allen's algebra			

Table 7: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
Concepts	batch process	LacknerMMWW23[223], MMWW21[222], QinWSLS21[313], No- varaNH16[282], KoschB14[207]	Lackner- monisC95[344]	TangB20[351], NovasH10[284], Vilim02[375], Si- monisC95[344]
Concepts	bill of material			PrataAN23[311], IsikYA23[185], YuraszeckM- CCR23[405], GeitzGSSW22[136], LiFJ- ZLL22[230], OujanaAYB22[291], AbreuN22[89], MullerMKP22[271], KlankeBYE21[202], FanXG21[114], ZhangYW21[410], MengZRZL20[261], EscobetPQPRA19[109], FahimiOQ18[112], LaborieRSV18[221], Cauwe- laertDMS16[76], GrimesH10[148], Simo- nis07[343], VilimBC05[383], ArtiguesBF04[16], Vilim04[377]
Concepts	buffer capacity			Simonis07[343]
Concepts	cmax	JuvinHHL23[187], KameugneFND23[192], YuraszeckMC23[404], IsikYA23[185], YuraszeckMCCR23[405], abs-2305-19888[169], AbreuN22[89], abs-2211-14492[347], Arm- strongGOS21[13], AbohashimaEG21[2], QinWSLS21[313], MengZRZL20[261], QinDCS20[314], MalapertN19[253], WikarekS19[394], KameugneFGOQ18[191], GedikKEK18[131], VilimLS15[384], Ozturk- THO13[292], BillautHL12[54], GrimesH11[149], LahimerLH11[224], GrimesH10[148], Zebal- losQH10[408], ArtiguesBF04[16], PapaB98[295]	Mehdizadeh-Somarin23[259], Arm- strongGOS22[14], BoudreaaultSLQ22[67], MullerMKP22[271], Novas19[283], WangMD15[391], Muscettola02[274]	JuvinHL23[188], HanenKP21[158], Hub- nerGSV21[183], ZhangYW21[410], BofillCSV17[57], LiuCGM17[238], SialaAH15[339], KoschB14[207], Wat- sonB08[392], LiessM08[231], AkkerDH07[369], KeriK07[198], KhayatLR06[199], BaptisteP00[29]
Concepts	completion time	PrataAN23[311], JuvinHL23[188], KameugneFND23[192], Mehdi- zadeh- Somarin23[259], OuelletQ22[290], AbreuN22[89], SubulanC22[346], Arm- strongGOS21[13], KlankeBYE21[202], LunardiBLRV20[248], QinDCS20[314], KameugneFGOQ18[191], FahimiOQ18[112], GedikKEK18[131], ZhangW18[411], De- jemeppeCS15[92], KoschB14[207], Ouel- letQ13[288], HeinzSB13[167], Ozturk- THO13[292], KelbelH11[197], KovacsB11[209], KovacsK11[211], Vilim09[379], cpaio- Vilim09[380], ChuX05[79], ZeballosH05[407], Wolf03[396], SchildW00[326]	abs-2305-19888[169], LiFJZLL22[230], OujanaAYB22[291], HeinzNVH22[168], MullerMKP22[271], abs-2211-14492[347], GeibingerMM21[135], HanenKP21[158], FanXG21[114], QinWSLS21[313], Mercier- AubinGQ20[262], NattafM20[277], Bo- gaerdtW19[370], GeibingerMM19[134], MalapertN19[253], YangSS19[401], abs- 1902-09244[159], abs-1911-04766[133], Ouel- letQ18[289], CappartS17[73], KreterSS17[216], CauwelaertDMS16[76], ZarandiKS16[406], GaySS14[130], cpaio-SchuttFS13[328], Lom- bardiM12[244], NovasH12[285], EdisO11[104], GrimesH11[149], HermenierDL11[173], KameugneFSN11[193], NovasH10[284], Ze- ballosQH10[408], LombardiM09[242], Monet- teDD07[264], VilimBC05[383], ArtiguesBF04[16], LimRX04[232], Vilim04[377], VilimBC04[382], Zhou97[414], Goltz95[146]	abs-2402-00459[278], JuvinHHL23[187], PerezGSL23[298], asselGS23[354], AkramNHRSA23[7], IsikYA23[185], MontemanniD23a[266], abs-2306- 05747[355], ArmstrongGOS22[14], GeitzGSSW22[136], PopovicCGNC22[306], WinterMMW22[395], ZhangJZL22[409], CampeauG22[72], PohlAK22[304], HubnerGSV21[183], PandeyS21a[293], VlkHT21[386], WessenCS20[393], As- trandJZ20[22], MengZRZL20[261], Sacra- mentoSP20[321], MurinR19[272], No- vas19[283], Tesch18[359], MossigeGSMC17[268], FontaineMH16[116], Tesch16[358], No- varaNH16[282], BurtLPS15[70], EvenSH15[110], KreterSS15[215], LombardiBM15[240], Vil- imLS15[384], EvenSH15a[111], Kameugne15[190], WangMD15[391], AlesioNBG14[99], Grime- sIOS14[151], KameugneFSN14[194], No- vasH14[286], SchuttFS13[329], BillautHL12[54], HeinzB12[163], LimtanyakulS12[236], Cler- cqPBJ11[81], LahimerLH11[224], Lom- bardiBMB11[241], Vilim11[381], Schut- tFSW11[331], BertholdHMLS10[52], Daven- port10[87], LombardiM10[243], DoomsH08[101], WatsonB08[392], AkkerDH07[369], Artiouch- ineB05[18], Vilim05[378], HentenryckM04[171], Sadykov04[322], OddiPCC03[287], Heipck- eCCS00[170], PapaB98[295], Zhou96[413], GaySS14[130], Bartak02[33], SimonisC95[344]
Concepts	continuous process			

Table 7: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
Concepts	distributed	PrataAN23[311], MengZRZL20[261], He0GLW18[160], BonfiettiLM14[63], Bar- takS11[34], RossiTHP07[320]	IsikYA23[185], OujanaAYB22[291], AbreuN22[89], ZhangW18[411], ZarandiKS16[406], AlesioNBG14[99], Her- menierDL11[173], LopesCSM10[245], BeniniBGM06[50], SchildW00[326], Wal- lace96[387]	Bit-Monnot23[55], KimCMLLP23[201], SquillaciPR23[345], YuraszeckMC23[404], AkramNHRSA23[7], GurPAE23[156], Mon- temanniD23[267], abs-2305-19888[169], BoudreaultSLQ22[67], LiFJZLL22[230], Win- terMMW22[395], HeinzNVH22[168], abs-2211- 14492[347], GeibingerKKMMW21[132], Kovac- sTKSG21[214], FanXG21[114], PandeyS21a[293], VlkHT21[386], ZhangYW21[410], WangB20[389], SacramentoSP20[321], GalleguillosKSB19[123], EscobetPQPRA19[109], Novas19[283], WikarekS19[394], abs-1901-07914[41], FahimiOQ18[112], LaborieRSV18[221], MossigeGSMC17[268], BoothNB16[65], LimHTB16[233], EvenSH15[110], Lom- bardiBM15[240], EvenSH15a[111], KoschB14[207], GrimesIOS14[151], GuSS13[155], BonfiettiLBM12[62], If- rimOS12[184], LombardiM12[244], Cler- cqPBJ11[81], KelbelH11[197], Ko- vacsB11[209], TopalogluO11[363], CobanH10[82], LauLN08[225], MouraSCL08[270], Khem- moudjPB06[200], AbrilSB05[3], Hooker05[177], VilimBC05[383], Hooker04[176], VilimBC04[382], OddiPCC03[287], KuchcinskiW03[217], SakkoutW00[324], PapaB98[295]
Concepts	due date	OujanaAYB22[291], AntuoriHHEN21[11], FanXG21[114], Mercier-AubinGQ20[262], TangB20[351], Novas19[283], abs-1902- 09244[159], abs-1911-04766[133], Tesch18[359], GoldwaserS17[145], NovaraNH16[282], DoulabiRP14[102], HoundjiSWD14[182], KoschB14[207], LimtanyakulS12[236], KelbelH11[197], NovasH10[284], Zebal- losQH10[408], KrogtLPHJ07[371], Simo- nis07[343], Hooker06[179], Sadykov04[322], PapaB98[295], Zhou97[414], Colombani96[84], Zhou96[413]	PrataAN23[311], IsikYA23[185], Lackner- MMWW23[223], WinterMMW22[395], abs- 2211-14492[347], GeibingerMM21[135], Lack- nerMMWW21[222], GeibingerMM19[134], FahimiOQ18[112], ZarandiKS16[406], Grime- sIOS14[151], HeinzSB13[167], GrimesH11[149], Davenport10[87], SchuttW10[333], ChuX05[79], cp-Hooker05[178], ZeballosH05[407], Belhad- jiI98[46], BeckDF97[37]	abs-2402-00459[278], JuvinHHL23[187], KimCMLLP23[201], YuraszeckMC23[404], ZhangJZL22[409], MullerMKP22[271], SubulanC22[346], HanenKP21[158], KlankeBYE21[202], KovacsTKSG21[214], HubnerGSV21[183], VlkHT21[386], GroleazNS20[153], AstrandJZ20[22], Lu- nardiBLRV20[248], EscobetPQPRA19[109], Laborie18a[220], GedikKEK18[131], Labori- eRSV18[221], Hooker17[180], Pralet17[309], PraletLJ15[310], NattafAL15[275], Bil- lautHL12[54], HeinzB12[163], IfrimOS12[184], LombardiM12[244], ClercqPBJ11[81], EdisO11[104], KovacsB11[209], Ko- vacsK11[211], LopesCSM10[245], Laborie09[219], AkkerDH07[369], BeldiceanuP07[45], KeriK07[198], KhayatLR06[199], FrankK05[118], Hooker05[177], HentenryckM04[171], ElkhyariGJ02[106], Timpe02[361], Baptis- teP00[29], HeipckeCCS00[170], BaptisteP97[28], Goltz95[146], SimonisC95[344]
Concepts	earlyness			

Table 7: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
Concepts	flow shop	PrataAN23[311], JuvinHL23[188], IsikYA23[185], ArmstrongGOS22[14], LiFJZLL22[230], OujanaAYB22[291], ZhangJZL22[409], AbreuN22[89], Arm- strongGOS21[13], QinWSLS21[313], As- trandJZ20[22], MengZRZL20[261], Novas19[283], ZhangW18[411]	Mehdizadeh-Somarin23[259], FanXG21[114], KoehlerBFFHPSSS21[204], TangB20[351], abs-1902-09244[159], LaborieRSV18[221], GrimesH11[149], KovacsB11[209]	AalianPG23[1], JuvinHHL23[187], as- selGS23[354], YuraszeckMCCR23[405], abs-2305-19888[169], abs-2306-05747[355], HeinzNVH22[168], abs-2211-14492[347], HillTV21[174], KovacsTKSG21[214], Lack- nerMMWW21[222], PandeyS21a[293], Lu- nardiBLRV20[248], SacramentoSP20[321], WallaceY20[388], WikarekS19[394], ZarandiKS16[406], OzturkTHO13[292], BillautHL12[54], LombardiM12[244], Ko- vacsK11[211], GrimesH10[148], BarlattCG08[31], LauLN08[225], BaptisteP00[29], SchildW00[326], PapaB98[295], BaptisteP97[28], SimonisC95[344]
Concepts	flow time	FanXG21[114], NattafM20[277], MalapertN19[253], ZhangW18[411]	PrataAN23[311]	YuraszeckMC23[404], asselGS23[354], YuraszeckMCCR23[405], abs-2306-05747[355], LiFJZLL22[230], AbreuN22[89], KoehlerBFFH- PSSS21[204], MengZRZL20[261], Novas19[283], EdisO11[104], KovacsB11[209]
Concepts	inventory	SubulanC22[346], GilesH16[139], GoelSHFS15[143], SerraNM12[334], LopesCSM10[245], RossiTHP07[320], Timpe02[361], BeckDF97[37]	Novas19[283], LauLN08[225], portKRSH07[88], GarganiR07[124]	Daven- PrataAN23[311], PerezGSL23[298], Gur- PAE23[156], abs-2312-13682[299], AbreuN22[89], PohlAK22[304], KovacsTKSG21[214], HubnerGSV21[183], GroleazNS20[153], WikarekS19[394], abs-1902-09244[159], Labori- eRSV18[221], ShinBBHO18[337], SchuttS16[332], SimoninAHL15[341], HoundjiSWD14[182], KelarevaTK13[196], HeinzSSW12[165], Lom- bardiM12[244], KelbelH11[197], Laborie09[219], MouraSCL08[270], KrogLPHJ07[371], Si- monisC95[344]

Table 7: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
Concepts	job	PrataAN23[311], abs-2402-00459[278], Bit-Monnot23[55], JuvinHHL23[187], JuvinHL23[188], KimCMLLP23[201], Meh dizadeh-Somarin23[259], WangB23[390], YuraszeckMC23[404], asselGS23[354], IsikYA23[185], LacknerMMWW23[223], YuraszeckMCCR23[405], abs-2306-05747[355], ArmstrongGOS22[14], GeitzGSSW22[136], LiFJZLL22[230], OujanaAYB22[291], Winter- MMW22[395], ZhangJZL22[409], AbreuN22[89], MullerMKP22[271], abs-2211-14492[347], ArmstrongGOS21[13], AstrandOF21[20], GeibingerMM21[135], HillTV21[174], Ko- vacsTKSG21[214], LacknerMMWW21[222], FanXG21[114], KoehlerBFFHPSSS21[204], PandeyS21a[293], QinWSLS21[313], ZhangYW21[410], GroleazNS20[153], NattafM20[277], TangB20[351], WangB20[389], AstrandJZ20[22], BenediktMH20[48], Lu- nardiBLRV20[248], MengZRZL20[261], SacramentoSP20[321], WallaceY20[388], BogaerdtW19[370], ColT19[83], Gal- leguillosKSB19[123], GeibingerMM19[134], MalapertN19[253], MurinR19[272], No- vas19[283], WikarekS19[394], abs-1902- 09244[159], abs-1911-04766[133], Benedik- tSMVH18[49], Laborie18a[220], Tesch18[359], FahimiOQ18[112], GedikKEK18[131], LaborieRSV18[221], ZhangW18[411], Hooker17[180], MossigeGSMC17[268], Pralet17[309], CauwelaertDMS16[76], FontaineMH16[116], Tesch16[358], De- jemmepeCS15[92], SialaAH15[339], Vil- imLS15[384], BartoliniBBLM14[35], Deje- meppeD14[93], GaySS14[130], KoschB14[207], NovasH14[286], CireCH13[80], HeinzKB13[164], SchuttFS13[329], HeinzSB13[167], Ozturk- THO13[292], BillautHL12[54], HeinzB12[163], RendIPHR12[317], LimtanyakulS12[236], No- vasH12[285], EdisO11[104], GrimesH11[149], LahimerLH11[224], KelbelH11[197], Ko- vacsB11[209], BertholdHLMS10[52], CobanH10[82], GrimesH10[148], No- vasH10[284], GrimesHM09[150], Laborie09[219], DoomsH08[101], LauLN08[225], WatsonB08[392], AkkerDH07[369], DavenportKRSH07[88], Mon- etteDD07[264], KhayatLR06[199], Artiouch- ineB05[18], ChuX05[79], DilkinaDH05[100], Vilim05[378], VilimBC05[383], ZeballosH05[407], ArtiguesBF04[16], HentenryckM04[171], LimRX04[232], Sadykov04[322], VilimBC04[382], DannaP03[85], Wolf03[396], HookerY02[181], HeipckeCCS00[170], SakkoutW00[324], SchildW00[326], RodosekW98[319], Bel- hadjiI98[46], PapaB98[295], BeckDF97[37], Zhou97[414], Colombani96[84], Zhou96[413], Goltz95[146], SimonisC95[344]	EfthymiouY23[105], abs-2305-19888[169], HeinzNVH22[168], HanenKP21[158], Mercier- AubinGQ20[262], EscobetPQPRA19[109], Pour- DERB18[307], CappartS17[73], NattafAL17[276], Madi-WambaB16[250], ZarandiKS16[406], PraletLJ15[310], LetortCB15[229], Bonfiet- tiLM14[63], LombardiM12[244], KovacsK11[211], Simonis07[343], KovacsV06[213], Hooker06[179], HebrardTW05[161], Hooker05[177], Ko- vacsV04[212], VerfaillieL01[374], Baptis- teP00[29], BaptisteP97[28], Caseau97[75], Puget95[312]	PovedaAA23[308], CampeauG22[72], PohlAK22[304], AntuoriHHEN21[11], KlankeBYE21[202], HubnerGSV21[183], WessenCS20[393], QinDCS20[314], FrimodigS19[120], ShinBBHO18[337], Hech- ingH16[162], NovaraNH16[282], BurtLPS15[70], LimBTBB15[234], LombardiBM15[240], MelgarejoLS15[6], WangMD15[391], Ale- sioNBG14[99], BessiereHMQW14[53], Der- rienPZ14[98], KameugneFSN14[194], Bon- fiettiLBM12[62], IfrimOS12[184], Bonfiet- tiLBM11[61], KameugneFSN11[193], Ha- chemiGR11[157], LopesCSM10[245], Zebal- losQH10[408], SchuttFSW09[330], Vilim09[379], BarlattCG08[31], LiessM08[231], KeriK07[198], KrogtLPHJ07[371], FrankK05[118], Kovac- sEKV05[210], WuBB05[400], cp-Hooker05[178], Vilim04[377], Vilim03[376], Bartak02[33], KamarainenS02[189], Muscettola02[274], Timpe02[361], AngelsmarkJ00[10], Cesta- osAS98[77], Wallace96[387]

Table 7: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
Concepts	job shop	PrataAN23[311], abs-2402-00459[278], Bit-Monnot23[55], JuvHL23[187], KimCM-LLP23[201], MehdiZadeh-Somarin23[259], asselGS23[354], YuraszeckMCCR23[405], abs-2306-05747[355], GeitzGSSW22[136], LiFJZLL22[230], OujanaAYB22[291], MullerMKP22[271], abs-2211-14492[347], KovacsTKSG21[214], FanXG21[114], ZhangYW21[410], AstrandJZ20[22], LunardiBLRV20[248], MengZRZL20[261], ColT19[83], MurinR19[272], Novas19[283], FahimiOQ18[112], LaborieRSV18[221], ZhangW18[411], Pralet17[309], CauwelaertDMS16[76], FontaineMH16[116], DejemepeCS15[92], SialaAH15[339], VilimLS15[384], SchuttFS13[329], Bil-lautHL12[54], GrimesH11[149], Kel-belH11[197], KovacsB11[209], GrimesH10[148], GrimesHM09[150], WatsonB08[392], MonetteDD07[264], KhayatLR06[199], ArtiouchineB05[18], DilkinaDH05[100], Vilim05[378], ArtiguesBF04[16], HentenryckM04[171], DannaP03[85], Wolf03[396], SakkoutW00[324], SchildW00[326], BelhadjiI98[46], PapaB98[295], BeckDF97[37], Zhou97[414], Colombani96[84], Zhou96[413], Goltz95[146]	EfthymiouY23[105], IsikYA23[185], AbreuN22[89], ArmstrongGOS21[13], As-trand0F21[20], KoehlerBFFHPSSS21[204], QinWSLS21[313], GroleazNS20[153], Sacra-mentoSP20[321], EscobetPQPRA19[109], WikarekS19[394], CappartS17[73], MossigeGSMC17[268], BonfiettiLM14[63], GaySS14[130], LombardiM12[244], LauLN08[225], KovacsV06[213], He-brardTW05[161], VilimBC05[383], Ko-vacsV04[212], VilimBC04[382], BaptisteP00[29], BaptisteP97[28], Caseau97[75], Puget95[312], SimonisC95[344]	JuvHL23[188], PovedaAA23[308], YuraszeckMC23[404], LacknerMMWW23[223], AntuoriHHEN21[11], HanenKP21[158], Klanke-BYE21[202], Mercier-AubinGQ20[262], WessenCS20[393], BenediktMH20[48], WallaceY20[388], BogaerdW19[370], FrimodigS19[120], abs-1902-09244[159], BenediktSMVH18[49], ZarandiKS16[406], BurtLPS15[70], LimBTBB15[234], LombardiBM15[240], PraletLJ15[310], WangMD15[391], AlesioNBG14[99], DejemepeD14[93], KoschB14[207], KameugneFSN14[194], NovasH14[286], HeinzKB13[164], BonfiettiLBM12[62], Bon-fiettiLBM11[61], KameugneFSN11[193], HachemiGR11[157], KovacsK11[211], LopesCSM10[245], ZeballosQH10[408], Laborie09[219], Vilim09[379], Bar-lattCG08[31], DoomsH08[101], LiessM08[231], DavenportKRSH07[88], KeriK07[198], KrogtLPHJ07[371], Simonis07[343], KovacsEKV05[210], Vilim04[377], Vilim03[376], Bartak02[33], KamarainenS02[189], Muscet-tola02[274], VerfaillieL01[374], Angels-markJ00[10], HeipckeCCS00[170], Wallace96[387]
Concepts	lateness	FahimiOQ18[112], KoschB14[207]	PrataAN23[311], PohlAK22[304], ZhangW18[411], AkkerDH07[369], Sadykov04[322]	LacknerMMWW23[223], GeitzGSSW22[136], HanenKP21[158], LacknerMMWW21[222], KoehlerBFFHPSSS21[204], QinWSLS21[313], Novas19[283], Tesch18[359], EdisO11[104], NovasH10[284], Bartak02[33]
Concepts	lazy clause generation	KreterSS17[216], KreterSS15[215], Kelare-vaTK13[196], SchuttFS13[329], cpaior-SchuttFS13[328], SchuttFSW11[331], Schut-tFSW09[330]	Bit-Monnot23[55], PovedaAA23[308], BoudreaultSLQ22[67], GeitzGSSW22[136], Ouel-letQ22[290], FahimiOQ18[112], SchuttS16[332], SzerediS16[350], SialaAH15[339], BofilLEG-PSV14[58], GuSS13[155], SchuttCSW12[327]	KameugneFND23[192], TardivoDFMP23[353], WangB23[390], GeibingerMM21[135], HillTV21[174], Mercier-AubinGQ20[262], Wal-laceY20[388], YangSS19[401], BofilCSV17[57], GoldwasserS17[145], YoungFS17[402], PesantRR15[300], LombardiM12[244], GrimesH11[149], SchuttW10[333]

Table 7: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
Concepts	machine	PrataAN23[311], abs-2402-00459[278], AalianPG23[1], EfthymiouY23[105], Ju- vinHHL23[187], JuvinHL23[188], KimCM- LLP23[201], Meh dizadeh-Somarin23[259], PerezGSL23[298], YuraszeckMC23[404], asselGS23[354], IsikYA23[185], Lackner- MMWW23[223], YuraszeckMCCR23[405], abs-2305-19888[169], abs-2306-05747[355], abs-2312-13682[299], ArmstrongGOS22[14], GeitzGSSW22[136], LiFJZLL22[230], Ou- janaAYB22[291], WinterMMW22[395], ZhangJZL22[409], AbreuN22[89], HeinzNVH22[168], MullerMKP22[271], abs- 2211-14492[347], AntuoriHHEN21[11], Arm- strongGOS21[13], Astrand0F21[20], Ha- nenKP21[158], KovacsTKSG21[214], Lack- nerMMWW21[222], FanXG21[114], Hubn- erGSV21[183], KoehlerBFFHPSSS21[204], PandeyS21a[293], QinWSLS21[313], ZhangYW21[410], GroleazNS20[153], NattafM20[277], TangB20[351], AstrandJZ20[22], BenediktMH20[48], LunardiBLRV20[248], MengZRZL20[261], QinDCS20[314], Sacra- mentoSP20[321], BogaerdtW19[370], ColT19[83], FrimodigS19[120], Galleguil- losKSB19[123], MalapertN19[253], Mur- inR19[272], EscobetPQPRA19[109], No- vas19[283], WikarekS19[394], abs-1901-07914[41], abs-1902-09244[159], AstrandJZ18[21], Benedik- tSMVH18[49], Tesch18[359], GedikKEK18[131], LaborieRSV18[221], ZhangW18[411], MossigeGSMC17[268], FontaineMH16[116], BurtLPS15[70], KreterSS15[215], Vil- imLS15[384], BartoliniBBLM14[35], BessiereHMQW14[53], HoundjiSWD14[182], KoschB14[207], GrimesIOS14[151], No- vasH14[286], SchuttFS13[329], Ozturk- THO13[292], BillautHL12[54], IfrimOS12[184], LimtanyakulS12[236], EdisO11[104], GrimesH11[149], LahimerLH11[224], Ko- vacsB11[209], KovacsK11[211], Schut- tFSW11[331], GrimesH10[148], Zebal- losQH10[408], GrimesHM09[150], La- borie09[219], WatsonB08[392], LiessM08[231], AkkerDH07[369], DavenportKRSH07[88], Monet- teDD07[264], Simonis07[343], KhayatLR06[199], ArtiouchineB05[18], DilkinaDH05[100], Ze- ballosH05[407], ArtiguesBF04[16], Hen- tenryckM04[171], Sadykov04[322], Odd- iPCC03[287], Wolf03[396], BeldiceanuC02[42], Timpe02[361], VanczaM01[373], Heipck- eCCS00[170], SchildW00[326], BelhadjiI98[46], PapaB98[295], Darby-DowmanLMZ97[86], Zhou97[414], Colombani96[84], Zhou96[413], Goltz95[146]	Bit-Monnot23[55], AkramNHRSA23[7], Gur- PAE23[156], HillTV21[174], KlankeBYE21[202], AbohashimaEG21[2], He0GLW18[160], FahimiOQ18[112], ShinBBHO18[337], Gold- waserS17[145], Pralet17[309], KreterSS17[216], CauwelaertDMS16[76], SchuttS16[332], ZarandiKS16[406], DejemeppeCS15[92], Mur- phyMB15[273], SialaAH15[339], GaySS14[130], BonfiettiLBM12[62], LombardiM12[244], Kel- belH11[197], SchuttFSW09[330], LauLN08[225], KovacsV06[213], ChuX05[79], Vilim05[378], Vil- imBC05[383], VilimBC04[382], HookerY02[181], SakkoutW00[324], Wallace96[387]	KameugneFND23[192], Monteman- niD23[267], BoudreaultSLQ22[67], Popovic- CGNC22[306], PohlAK22[304], Subu- lanC22[346], GeibingerMM21[135], Mercier- AubinGQ20[262], WangB20[389], Wal- laceY20[388], YangSS19[401], Laborie18a[220], PourDERB18[307], BofillCSV17[57], Cap- partS17[73], KletzanderM17[203], Li- uCGM17[238], YoungFS17[402], BoothNB16[65], LimHTB16[233], SzerediS16[350], No- varaNH16[282], BofillGSV15[59], EvenSH15[110], LimBTBB15[234], LombardiBM15[240], MelgarejoLS15[6], cpaior-GayHS15[129], EvenSH15a[111], GoelSHFS15[143], LetortCB15[229], BofillEGPSV14[58], Bonfi- ettiLM14[63], DerrienPZ14[98], CireCH13[80], GuSS13[155], HeinzKB13[164], LetortCB13[228], cpaior-SchuttFS13[328], HeinzSB13[167], HeinzB12[163], LetortBC12[227], RendlPHPR12[317], SerraNM12[334], No- vasH12[285], BonfiettiLBM11[61], Her- menierDL11[173], LombardiBMB11[241], Vilim11[381], NovasH10[284], BarlattCG08[31], DoomsH08[101], GarridoOS08[126], Gar- ganiR07[124], KrogtLPHJ07[371], Hooker06[179], HebrardTW05[161], cp-Hooker05[178], Hooker05[177], Hooker04[176], KovacsV04[212], LimRX04[232], Vilim04[377], DannaP03[85], Bartak02[33], ElkhayariGJ02[106], Kama- rainenS02[189], MartinPY01[257], Ro- dosekW98[319], BeckDF97[37], Simonis95[342], SimonisC95[344]
Concepts	make to order	OujanaAYB22[291], DavenportKRSH07[88]		

Table 7: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
Concepts	make to stock	PrataAN23[311], AalianPG23[1], Bit-Monnot23[55], EfthymiouY23[105], Juvin-HHL23[187], JuvinHL23[188], Mehdizadeh-Somarin23[259], PovedaAA23[308], YuraszeckMC23[404], asselGS23[354], IsikYA23[185], LacknerMMWW23[223], abs-2305-19888[169], abs-2306-05747[355], ArmstrongGOS22[14], BoudreaultSLQ22[67], GeitzGSSW22[136], AbreuN22[89], HeinzNVH22[168], SubulanC22[346], Armstrong-GOS21[13], Astrand0F21[20], HillTV21[174], KlankeBYE21[202], LacknerMMWW21[222], QinWSLS21[313], ZhangYW21[410], WessenCS20[393], AstrandJZ20[22], Lunardi-BLRV20[248], MengZRZL20[261], ColT19[83], GalleguillosKSB19[123], MalapertN19[253], Novas19[283], WikarekS19[394], abs-1901-07914[41], abs-1902-09244[159], FahimiOQ18[112], GedikKEK18[131], LaborieRSV18[221], ZhangW18[411], BofillCSV17[57], MossigeGSMC17[268], Pralet17[309], Szere-diS16[350], NovaraNH16[282], BurtLPS15[70], LombardiBM15[240], VilimLS15[384], WangMD15[391], BartoliniBBLM14[35], BonfiettiLM14[63], DejemeppeD14[93], DerrienPZ14[98], KoschB14[207], NovasH14[286], SchuttFS13[329], cpaior-SchuttFS13[328], OzturkTHO13[292], BonfiettiLBM12[62], NovasH12[285], GrimesH11[149], LombardiBMB11[241], SchuttFSW11[331], CobanH10[82], GrimesH10[148], NovasH10[284], ZeballosQH10[408], GrimesHM09[150], GarridoAO09[125], WatsonB08[392], GarridoOS08[126], KovacsV06[213], KhayatLR06[199], DilkinaDH05[100], FortinZDF05[117], Hooker05[177], ZeballosH05[407], ArtiguesBF04[16], HentenryckM04[171], Hooker04[176], BaptisteP00[29], PapaB98[295], BaptisteP97[28], BeckDF97[37], Darby-DowmanLMZ97[86]	KameugneFND23[192], PerezGSL23[298], YuraszeckMCCR23[405], abs-2312-13682[299], LiFJZLL22[230], OujanaAYB22[291], ZhangJZL22[409], MullerMKP22[271], abs-2211-14492[347], FanXG21[114], PandeyS21a[293], QinDCS20[314], AstrandJZ18[21], YoungFS17[402], KreterSS17[216], BonfiettiZLM16[64], DejemeppeCS15[92], GayHLS15[127], SialaAH15[339], KameugneFSN14[194], GuSS13[155], Bil-lautHL12[54], SchuttCSW12[327], LombardiM12[244], KovacsB11[209], LombardiM09[242], LiessM08[231], AkkerDH07[369], MonetteDD07[264], Vilim05[378], VilimBC05[383], KovacsV04[212], VilimBC04[382], Wolf03[396], Timpe02[361]	KimCMLLP23[201], TardivoDFMP23[353], PopovicCGNC22[306], CampeauG22[72], HananKP21[158], HubnerGSV21[183], KoehlerBFFHPSSS21[204], Mercier-AubinGQ20[262], NattafM20[277], TangB20[351], SacramentoSP20[321], GeibingerMM19[134], MurinR19[272], abs-1911-04766[133], KameugneFGOQ18[191], OuelletQ18[289], Tesch18[359], NattafAL17[276], CauwelaertDMS16[76], FontaineMH16[116], SchuttS16[332], Tesch16[358], ZarandiKS16[406], KreterSS15[215], PraletLJ15[310], LetortCB15[229], NattafAL15[275], SimoninAHL15[341], AlesioNBG14[99], DerrienP14[97], GaySS14[130], CireCH13[80], KelarevaTK13[196], LetortCB13[228], OuelletQ13[288], LetortBC12[227], BonfiettiLBM11[61], EdisO11[104], KameugneFSN11[193], LahimerLH11[224], HachemiGR11[157], KelbelH11[197], LombardiM10[243], SchuttW10[333], LopesCSM10[245], SchuttFSW09[330], KeriK07[198], BeniniBGM06[50], Hooker06[179], ArtiouchineB05[18], CarchraeBF05[74], WuBB05[400], cp-Hooker05[178], Bartak02[33], ElkhyariGJ02[106], HeipckeCCS00[170], RodosekW98[319], Caseau97[75]
Concepts	make span			
Concepts	manpower	NovaraNH16[282]	LaborieRSV18[221]	WikarekS19[394], HechingH16[162], SchuttS16[332], cpaior-GayHS15[129], GaySS14[130], LombardiM12[244], Vilim11[381], NovasH10[284], Puget95[312], SimonisC95[344]
Concepts	multi agent	He0GLW18[160]	abs-2402-00459[278], LimHTB16[233]	abs-2402-00459[278], Mehdizadeh-Somarin23[259], SquillaciPR23[345], ZhangYW21[410], WessenCS20[393], WikarekS19[394], ZhangW18[411], LimBTBB15[234], KoschB14[207], BartakS11[34], AbrilSB05[3], Wallace96[387]
Concepts	no preempt			FanXG21[114], MengZRZL20[261], MonetteDD07[264]

Table 7: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
Concepts	open shop	PrataAN23[311], AbreuN22[89], GrimesHM09[150], MonetteDD07[264]	Bit-Monnot23[55], FahimiOQ18[112], MengZRZL20[261], GrimesH10[148], Vilim05[378]	SacramentoSP20[321], KimCMLLP23[201], YuraszeckMCCR23[405], OujanaAYB22[291], As- trand0F21[20], AstrandJZ20[22], SialaAH15[339], AlesioNBG14[99], BonfiettiLM14[63], Bil- lautHL12[54], GrimesH11[149], Schut- tFSW11[331], SchuttFSW09[330], Ar- tiouchineB05[18], VilimBC05[383], Henten- ryckM04[171], VilimBC04[382], Vilim03[376], VerfaillieL01[374]

Table 7: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
Concepts	order	PrataAN23[311], abs-2402-00459[278], AalianPG23[1], Bit-Monnot23[55], EfthymiouY23[105], JuvinHHL23[187], Ju- vinHL23[188], KameugneFND23[192], KimCM- LLP23[201], PerezGSL23[298], PovedaAA23[308], SquillaciPR23[345], WangB23[390], as- selGS23[354], IsikYA23[185], Lackner- MMWW23[223], YuraszeckMCCR23[405], abs-2306-05747[355], abs-2312-13682[299], BoudreaultSLQ22[67], GeitzGSSW22[136], LiFJZLL22[230], OujanaAYB22[291], Popovic- CGNC22[306], AbreuN22[89], CampeauG22[72], MullerMKP22[271], PohlAK22[304], Subu- lanC22[346], abs-2211-14492[347], Antuori- HHEN21[11], ArmstrongGOS21[13], As- trandOF21[20], HanenKP21[158], Klanke- BYE21[202], KovacsTKSG21[214], Lackn- erMMWW21[222], FanXG21[114], Hubn- erGSV21[183], KoehlerBFFHPPSSS21[204], PandeyS21a[293], QinWSLS21[313], VlkHT21[386], GroleazNS20[153], Mercier- AubinGQ20[262], NattafM20[277], WangB20[389], WessenCS20[393], As- trandJZ20[22], BenediktMH20[48], Lu- nardiBLRV20[248], MengZRZL20[261], SacramentoSP20[321], FrimodigS19[120], GeibingerMM19[134], MalapertN19[253], MurinR19[272], YangSS19[401], Escobet- PQPRA19[109], Novas19[283], WikarekS19[394], abs-1901-07914[41], abs-1902-09244[159], abs- 1911-04766[133], AstrandJZ18[21], Kameugne- FGOQ18[191], OuelletQ18[289], Tesch18[359], FahimiOQ18[112], GedikKEK18[131], La- borieRSV18[221], PourDERB18[307], ZhangW18[411], CappartS17[73], Gold- waserS17[145], KletzanderM17[203], Li- uCGM17[238], MossigeGSMC17[268], Pralet17[309], YoungFS17[402], KreterSS17[216], BonfiettiZLM16[64], BoothNB16[65], Cauwe- laertDMS16[76], Madi-WambaB16[250], SchuttS16[332], Tesch16[358], No- varaNH16[282], ZarandiKS16[406], Deje- meppeCS15[92], EvenSH15[110], GayHLS15[127], LimBTBB15[234], LombardiBM15[240], MelgarejoLS15[6], MurphyMB15[273], PraletLJ15[310], SialaAH15[339], Vil- imLS15[384], EvenSH15a[111], GoelSHFS15[143], LetortCB15[229], NattafAL15[275], Si- moninAHL15[341], WangMD15[391], Ale- sioNBG14[99], BessiereHMQW14[53], Bofil- IEGPSV14[58], BonfiettiLM14[63], Der- rienP14[97], DerrienPZ14[98], GaySS14[130], HoundjiSWD14[182], KoschB14[207], GrimesIOS14[151], KameugneFSN14[194], NovasH14[286], KelarevaTK13[196], LetortCB13[228], OuelletQ13[288], cpaior- SchuttFS13[328], HeinzSB13[167], Ozturk- THO13[292], BillautHL12[54], IfrimOS12[184], LetortBC12[227], RendlPHPR12[317], SchuttCSW12[327], SerraNM12[334], S66 moninAHL12[340], HeinzSSW12[165], Lim- tanyakulS12[236], LombardiM12[244], No- vasH12[285], ClercqPBJ11[81], GrimesH11[149], HermenierDL11[173], KameugneFSN11[193]	TardivoDFMP23[353], YuraszeckMC23[404], GurPAE23[156], MontemanniD23a[266], abs-2305-19888[169], ArmstrongGOS22[14], OuelletQ22[290], WinterMMW22[395], HeinzNVH22[168], GeibingerMM21[135], HillTV21[174], TangB20[351], QinDCS20[314], WallaceY20[388], BogaerdW19[370], ColT19[83], DemirovicS18[95], ShinBBHO18[337], BofillCSV17[57], GelainPRVW17[137], NattafAL17[276], FontaineMH16[116], GilesH16[139], LimHTB16[233], Bofill- GSV15[59], BurtLPS15[70], GayHS15[128], KreterSS15[215], PesantRR15[300], De- jemmeD14[93], CireCH13[80], Bonfiet- tiLBM12[62], LahimerLH11[224], Lom- bardiBMB11[241], Davenport10[87], Schut- tFSW09[330], Vilim09[379], cpaior-Vilim09[380], LauLN08[225], BeldiceanuP07[45], KeriK07[198], BeniniBGM06[50], KhayatLR06[199], Artiouch- ineB05[18], FortinZDF05[117], Hooker05[177], HentenyryckM04[171], Hooker04[176], Kuchcin- skiW03[217], KamarainenS02[189], Muscet- tola02[274], FrostD98[122], Belhadji98[46], Caseau97[75], Puget95[312], Touraivane95[365]	Mehdizadeh-Somarin23[259], AkramNHRSA23[7], MontemanniD23[267], ZhangJZL22[409], AbohashimaEG21[2], ZhangYW21[410], GalleguillosKSB19[123], abs-1902-01193[8], BenediktSMVH18[49], He0GLW18[160], Hooker17[180], Hech- ingH16[162], SzerediS16[350], cpaior- GayHS15[129], DoulabiRP14[102], GuSS13[155], HeinzKB13[164], Schut- tFS13[329], HeinzB12[163], Bonfi- ettiLBM11[61], ChapadosJR11[78], BertholdHLMS10[52], CobanH10[82], Acuna-AgostMFG09[4], DoomsH08[101], LiessM08[231], AkkerDH07[369], AbrilSB05[3], CarchraeBF05[74], ChuX05[79], He- brardTW05[161], DannaP03[85], Kumar03[218], Vilim03[376], HookerY02[181], Angels- markJ00[10], RodosekW98[319], BeckDF97[37], Simonis95[342]

Table 7: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
Concepts	precedence	<p>abs-2402-00459[278], JuvinHHL23[187], PovedaAA23[308], IsikYA23[185], YuraszeckM- CCR23[405], BoudreaultSLQ22[67], CampeauG22[72], PohlAK22[304], Arm- strongGOS21[13], Astrand0F21[20], GeibingerMM21[135], HanenKP21[158], HillTV21[174], FanXG21[114], Hubn- erGSV21[183], KoehlerBFFHPSSS21[204], ZhangYW21[410], GroleazNS20[153], Mercier- AubinGQ20[262], AstrandJZ20[22], Lu- nardiBLRV20[248], MengZRZL20[261], SacramentoSP20[321], WikarekS19[394], abs-1902-09244[159], Laborie18a[220], Tesch18[359], FahimiOQ18[112], Labori- eRSV18[221], ZhangW18[411], BofllCSV17[57], Pralet17[309], YoungFS17[402], Bonfietti- ZLM16[64], SchuttS16[332], SzerediS16[350], NovaraNH16[282], DejemeppeCS15[92], Melgar- ejoLS15[6], PraletLJ15[310], LetortCB15[229], SimoninAHL15[341], DerrienPZ14[98], Ouel- letQ13[288], SchuttFS13[329], HeinzSB13[167], OzturkTHO13[292], BonfiettiLBM12[62], SchuttCSW12[327], LombardiM12[244], Bonfiet- tiLBM11[61], ClercqPBJ11[81], GrimesH11[149], LombardiBMB11[241], KelbelH11[197], Schut- tFSW11[331], LombardiM10[243], Lom- bardiM09[242], SchuttFSW09[330], Garri- doAO09[125], LiessM08[231], AkkerDH07[369], BeniniBGM06[50], KovacsV06[213], Khay- atLR06[199], Vilim05[378], Hooker05[177], VilimBC05[383], ArtiguesBF04[16], Henten- ryckM04[171], KovacsV04[212], Vilim04[377], Muscettola02[274], VanczaM01[373], Baptis- teP00[29], HeipckeCCS00[170], SchildW00[326], BaptisteP97[28]</p>	<p>Bit-Monnot23[55], KameugneFND23[192], TardivoDFMP23[353], OujanaAYB22[291], SubulanC22[346], AntuoriHHEN21[11], VlkHT21[386], WessenCS20[393], QinDCS20[314], BogaerdtW19[370], ColT19[83], GeibingerMM19[134], MurinR19[272], No- vas19[283], abs-1911-04766[133], Kameugne- FGOQ18[191], MossigeGSMC17[268], Madi-WambaB16[250], BurtLPS15[70], GayHLS15[127], LombardiBM15[240], Vil- imLS15[384], WangMD15[391], Bonfiet- tiLM14[63], KameugneFSN14[194], cpaio- rSchuttFS13[328], BillautHL12[54], Si- moninAHL12[340], LimtanyakulS12[236], NovasH12[285], KameugneFSN11[193], HachemiGR11[157], GrimesH10[148], LopesCSM10[245], NovasH10[284], Ze- ballosQH10[408], GrimesHM09[150], MouraSCL08[270], DavenportKRSH07[88], KeriK07[198], Hooker06[179], DilkinaDH05[100], FortinZDF05[117], ZeballosH05[407], Hooker04[176], VilimBC04[382], Belhadji198[46], BeckDF97[37], Zhou97[414], Zhou96[413]</p>	<p>PrataAN23[311], JuvinHL23[188], KimCM- LLP23[201], Mehdizadeh-Somarin23[259], YuraszeckMC23[404], asselGS23[354], abs- 2305-19888[169], abs-2306-05747[355], GeitzGSSW22[136], WinterMMW22[395], ZhangJZL22[409], HeinzNVH22[168], MullerMKP22[271], abs-2211-14492[347], KovacsTKSG21[214], PandeyS21a[293], TangB20[351], DemirovicS18[95], He0GLW18[160], OuelletQ18[289], Cap- partS17[73], KreterSS17[216], BoothNB16[65], CauwelaertDMS16[76], FontaineMH16[116], Tesch16[358], GayHS15[128], SialaAH15[339], GoelSHFS15[143], DejemeppeD14[93], GaySS14[130], HoundjiSWD14[182], No- vasH14[286], CireCH13[80], GuSS13[155], Kelare- vaTK13[196], LetortCB13[228], HeinzB12[163], LetortBC12[227], SerraNM12[334], Hermen- nierDL11[173], LahimerLH11[224], Vilim11[381], KovacsB11[209], BertholdHLMS10[52], La- borie09[219], Vilim09[379], KrogtLPHJ07[371], MonetteDD07[264], ArtiouchineB05[18], FrankK05[118], KovacsEKV05[210], cp- Hooker05[178], Sadykov04[322], Odd- iPCC03[287], KuchcinskiW03[217], Bartak02[33], ElkhyariGJ02[106], KamarainenS02[189], Vilim02[375], SakkoutW00[324], Colom- bani96[84], Goltz95[146], Simonis95[342]</p>

Table 7: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
Concepts	preempt	JuvinHHL23[187], PovedaAA23[308], SubulanC22[346], HanenKP21[158], FahimiOQ18[112], ZarandiKS16[406], EvenSH15[110], EvenSH15a[111], AlesioNBG14[99], LombardiM12[244], KovacsB11[209], Monet-teDD07[264], Wolf03[396], BaptisteP00[29], PapaB98[295], BaptisteP97[28]	PrataAN23[311], abs-2305-19888[169], OuelletQ22[290], HeinzNVH22[168], Mercier-AubinGQ20[262], LunardiBLRV20[248], SacramentoSP20[321], YoungFS17[402], NattafAL15[275], SimoninAHL15[341], Oz-turkTHO13[292], SimoninAHL12[340], SchuttFSW11[331], Laborie09[219], SchuttFSW09[330], ArtiouchineB05[18]	AalianPG23[1], KameugneFND23[192], Mehdi-zadeh-Somarin23[259], TardivoDFMP23[353], YuraszeckMC23[404], asselGS23[354], AkramNHRS23[7], IsikYA23[185], YuraszeckMCCR23[405], abs-2306-05747[355], BoudreaaultSLQ22[67], GeitzGSSW22[136], OujanaAYB22[291], AbreuN22[89], MullerMKP22[271], ArmstrongGOS21[13], HillTV21[174], KovacsTKSG21[214], FanXG21[114], HubnerGSV21[183], QinWSLS21[313], ZhangYW21[410], GroleazNS20[153], BenediktMH20[48], MengZRZL20[261], YangSS19[401], WikarekS19[394], BenediktSMVH18[49], Tesch18[359], GedikKEK18[131], ShinBBHO18[337], ZhangW18[411], BofillCSV17[57], MossigeGSMC17[268], KreterSS17[216], CauwelaertDMS16[76], SchuttS16[332], SzerediS16[350], DjemeppeCS15[92], GayHS15[128], KreterSS15[215], cpaior-GayHS15[129], Kameugne15[190], GrimesIOS14[151], KameugneFSN14[194], OuelletQ13[288], cpaior-SchuttFS13[328], HeinzSB13[167], SchuttCSW12[327], SerraNM12[334], EdisO11[104], KameugneFSN11[193], LahimerLH11[224], Vilim11[381], KelbelH11[197], TopalogluO11[363], BertholdHLMs10[52], CobanH10[82], SchuttW10[333], ZeballosQH10[408], LombardiM09[242], Vilim09[379], cpaior-Vilim09[380], MouraSCL08[270], LiessM08[231], AkkerDH07[369], BeldiceanuP07[45], DavenportKRSH07[88], KhayatLR06[199], Vilim05[378], ArtiguesBF04[16], LimRX04[232], Sadykov04[322], OddiPCC03[287], ElkhyariGJ02[106], KamarainenS02[189], HeipckeCCS00[170], SakkoutW00[324], BelhadjiI98[46], Caseau97[75], Zhou97[414], Colombani96[84], GeitzGSSW22[136], KlankeBYE21[202], Simonis07[343], Timpe02[361], Simonis95[342]
Concepts	producer consumer	SchuttS16[332], Kumar03[218], SimonisC95[344]	HermenierDL11[173], BeldiceanuC02[42]	

Table 7: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
Concepts	re scheduling	ZhangW18[411], GrimesIOS14[151], RendlPHPR12[317], LombardiM12[244], No- vasH10[284], MartinPY01[257]	CappartS17[73], IfrimOS12[184], Mehdzizadeh-Somarin23[259], vacstKSG21[214], AstrandJZ20[22], LimHTB16[233], LimBTBB15[234], CobanH10[82], Acuna-AgostMFG09[4]	Ko- PrataAN23[311], EftymiouY23[105], PerezGSL23[298], asselGS23[354], Gur- PAE23[156], abs-2305-19888[169], abs- 2306-05747[355], abs-2312-13682[299], ArmstrongGOS22[14], HeinzNVH22[168], PohlAK22[304], KlankeBYE21[202], PandeyS21a[293], ZhangYW21[410], Benedik- tMH20[48], LunardiBLRV20[248], Gal- leguillosKSB19[123], GeibingerMM19[134], abs-1911-04766[133], He0GLW18[160], LaborieRSV18[221], BoothNB16[65], HechingH16[162], NovaraNH16[282], MurphyMB15[273], WangMD15[391], DerrienPZ14[98], KelarevaTK13[196], TopalogluO11[363], LopesCSM10[245], Gar- ridoAO09[125], Simonis07[343], Artiouch- ineB05[18], ElkhyariGJ02[106], BaptisteP00[29], SakkoutW00[324], PapaB98[295], Baptis- teP97[28], BeckDF97[37]
Concepts	release date	WinterMMW22[395], EscobetPQPRA19[109], KameugneFSN14[194], SerraNM12[334], LimtanyakulS12[236], KameugneFSN11[193], KovacsB11[209], AkkerDH07[369], Artiouch- ineB05[18], Hooker05[177], Hooker04[176], Zhou97[414], Colombani96[84], Zhou96[413]	HanenKP21[158], Tesch18[359], GroleazNS20[153], GibingerMM19[134], abs-1911-04766[133], HeinzSB13[167], KelbelH11[197], Laborie09[219], Simonis07[343], Hooker06[179], WuBB05[400], cp-Hooker05[178], Sadykov04[322]	PrataAN23[311], LacknerMMWW23[223], LacknerMMWW21[222], GibingerMM19[134], abs-1911-04766[133], HeinzSB13[167], KelbelH11[197], Laborie09[219], Simonis07[343], Hooker06[179], WuBB05[400], cp-Hooker05[178], Sadykov04[322]

Table 7: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
Concepts	resource	PrataAN23[311], AalianPG23[1], KameugneFND23[192], TardivoDFMP23[353], PAE23[156], YuraszeckMCCR23[405], 2305-19888[169], GeitzGSSW22[136], OujanaAYB22[291], CampeauG22[72], SubulanC22[346], HanenKP21[158], vacsTKSG21[214], PandeyS21a[293], ZhangYW21[410], Mercier-AubinGQ20[262], AstrandJZ20[22], QinDCS20[314], SacramentoSP20[321], GalleguillosKSB19[123], MalapertN19[253], YangSS19[401], EscobetPQPRA19[109], Novas19[283], WikarekS19[394], abs-1901-07914[41], abs-1902-09244[159], DemirovicS18[95], KameugneFGOQ18[191], Laborie18a[220], OuelletQ18[289], Tesch18[359], FahimiOQ18[112], LaborieRSV18[221], ShinBBHO18[337], BofillCSV17[57], CappartS17[73], MossigeGSMC17[268], Pralet17[309], YoungFS17[402], KreterSS17[216], NattafAL17[276], BonfiettiZLM16[64], CauwelaertDMS16[76], FontaineMH16[116], GilesH16[139], Madi-WambaB16[250], SchuttS16[332], SzerediS16[350], Tesch16[358], NovaraNH16[282], BurtLPS15[70], DejemeppeCS15[92], EvenSH15[110], GayHS15[128], KreterSS15[215], LombardiBM15[240], PraletLJ15[310], SialaAH15[339], VilimLS15[384], cpaior-GayHS15[129], EvenSH15a[111], GoelSHFS15[143], Kameugne15[190], LetortCB15[229], NattafAL15[275], SimoninAHL15[341], WangMD15[391], AlesioNBG14[99], Bartolin-iBBLM14[35], BessiereHMqw14[53], BonfiettiLM14[63], DejemeppeD14[93], GaySS14[130], KoschB14[207], GrimesIOS14[151], KameugneFSN14[194], NovasH14[286], GuSS13[155], HeinzKB13[164], KelarevaTK13[196], LetortCB13[228], OuelletQ13[288], SchuttFS13[329], cpaior-SchuttFS13[328], HeinzSB13[167], OzturkTHO13[292], BonfiettiLBM12[62], HeinzB12[163], LetortBC12[227], SchuttCSW12[327], SerraNM12[334], SimoninAHL12[340], LimtanyakulS12[236], LombardiM12[244], NovasH12[285], BonfiettiLBM11[61], ClercqPBj11[81], EdisO11[104], GrimesH11[149], HermenierDL11[173], KameugneFSN11[193], LahimerLH11[224], LombardiBMB11[241], Vilim11[381], BartakS11[34], HachemiGR11[157], KelbelH11[197], KovacsB11[209], SchuttFSW11[331], BertholdHLMS10[52], GrimesH10[148], LombardiM10[243], SchuttW10[333], LopesCSM10[245], NovasH10[284], ZeballosQH10[408], GrimesHM09[150], Laborie09[219], Lom	Bit-Monnot23[55], PerezGSL23[298], as-selGS23[354], Caballero23[71], IsikYA23[185], abs-2306-05747[355], abs-2312-13682[299], WinterMMW22[395], MullerMKP22[271], PohlAK22[304], abs-2211-14492[347], AstrandOF21[20], KlankeBYE21[202], TangB20[351], LunardiBLRV20[248], WallaceY20[388], FrimodigS19[120], abs-1902-01193[8], BenediktSMVH18[49], GedikKEK18[131], GelainPRVW17[137], GoldwaserS17[145], BoothNB16[65], DerrienP14[97], DerrienPZ14[98], DoulabiRP14[102], KovacsK11[211], Davenport10[87], WatsonB08[392], ArtiouchineB05[18], KovacsEKV05[210], WuBB05[400], cp-Hooker05[178], Wolf03[396], Vilim02[375], Darby-DowmanLMZ97[86], Goltz95[146]	SquillaciPR23[345], AkramNHRSA23[7], MontemanniD23[267], ArmstrongGOS22[14], PopovicCGNC22[306], ZhangJZL22[409], AntuoriHHEN21[11], ArmstrongGOS21[13], AbohashimaEG21[2], FanXG21[114], KoehlerBFFHPSSS21[204], NattafM20[277], ColT19[83], AstrandJZ18[21], ZhangW18[411], Hooker17[180], KletzanderM17[203], ZarandiKS16[406], GayHLS15[127], Melgar-ejoLS15[6], MurphyMB15[273], Siala15[338], HoundjiSWD14[182], CireCH13[80], BillautHL12[54], IfrimOS12[184], BarlattCG08[31], GarganiR07[124], MonetteDD07[264], RossiTHP07[320], FortinZDF05[117], FrankK05[118], ArtiguesBF04[16], Tsang03[367], Timpe02[361], MartinPY01[257], AngelsmarkJ00[10], RodosekW98[319], Colombani96[84]

Table 7: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
Concepts	scheduling	PrataAN23[311], abs-2402-00459[278], AalianPG23[1], Bit-Monnot23[55], EfthymiouY23[105], JuvinHHL23[187], Ju- vinHL23[188], KameugneFND23[192], Kim- CMLLP23[201], Mehdizadeh-Somarin23[259], PerezGSL23[298], PovedaAA23[308], Squil- laciPR23[345], TardivoDFMP23[353], WangB23[390], YuraszeckMC23[404], as- selGS23[354], AkramNHRSA23[7], Ca- ballero23[71], GurPAE23[156], IsikYA23[185], LacknerMMWW23[223], MontemanniD23[267], MontemanniD23a[266], YuraszeckMCCR23[405], abs-2305-19888[169], abs-2306-05747[355], abs-2312-13682[299], ArmstrongGOS22[14], BoudreaultSLQ22[67], GeitzGSSW22[136], LiFJZLL22[230], OuelletQ22[290], Ou- janaAYB22[291], PopovicCGNC22[306], Winter- MMW22[395], ZhangJZL22[409], AbreuN22[89], CampeauG22[72], HeinzNVH22[168], MullerMKP22[271], PohlAK22[304], Subu- lanC22[346], abs-2211-14492[347], Antuori- HHEN21[11], ArmstrongGOS21[13], As- trand0F21[20], GeibingerKKMMW21[132], GeibingerMM21[135], HanenKP21[158], HillTV21[174], KlankeBYE21[202], Kovac- sTKSG21[214], LacknerMMWW21[222], AbohashimaEG21[2], FanXG21[114], HubnerGSV21[183], KoehlerBFFH- PSSS21[204], PandeyS21a[293], Qin- WLS21[313], VlkHT21[386], ZhangYW21[410], GroleazNS20[153], Mercier-AubinGQ20[262], NattafM20[277], TangB20[351], WangB20[389], WessenCS20[393], AstrandJZ20[22], BenediktMH20[48], LunardiBLRV20[248], MengZRZL20[261], QinDCS20[314], Sacra- mentoSP20[321], WallaceY20[388], Bo- gaerdW19[370], ColT19[83], FrimodigS19[120], GalleguillosKSB19[123], GeibingerMM19[134], MalapertN19[253], MurinR19[272], YangSS19[401], EscobetPQPRA19[109], Novas19[283], WikarekS19[394], abs-1901- 07914[41], abs-1902-01193[8], abs-1902- 09244[159], abs-1911-04766[133], As- trandJZ18[21], BenediktSMVH18[49], DemirovicS18[95], He0GLW18[160], Kameugne- FGOQ18[191], Laborie18a[220], Ouel- letQ18[289], Tesch18[359], FahimiOQ18[112], GedikKEK18[131], LaborieRSV18[221], PourDERB18[307], ShinBBHO18[337], ZhangW18[411], BofillCSV17[57], Cap- partS17[73], GelainPRVW17[137], Gold- waserS17[145], KletzanderM17[203], Li- uCGM17[238], MossigeGSMC17[268], Pralet17[309], YoungFS17[402], KreterSS17[216], NattafAL17[276], BonfiettiZLM16[64], BoothNB16[65], CauwelaertDMS16[76], FontaineMH16[116], GilesH16[139], Hech- ingH16[162], LimHTB16[233], Madi- WambaB16[250], SchuttS16[332], Sz- erediS16[350], Tesch16[358], No- varaNH16[282], ZarandiKS16[406], BofillGSV15[59], BurtLPS15[70], Deje- meppeCS15[92], EvenSH15[110], GayHLS15[127], KreterSS15[215], LimBTBB15[234],	GayHS15[128], Kameugne15[190], BessiereHMQW14[53], HoundjiSWD14[182], LetortCB13[228], LetortBC12[227], Cha- padosJR11[78], ClercqPB11[81], Acuna- AgostMFG09[4], Baptiste09[25], Dilki- naDH05[100], HebrardTW05[161], WuBB05[400], Vilim03[376], HookerY02[181], Vilim02[375], Ces- taOS98[77], FrostD98[122], Touraivane95[365]	Hooker17[180], RossiTHP07[320], AbrilSB05[3], VanczaM01[373]

Table 7: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
Concepts	sequence dependent setup	GedikKEK18[131]	IsikYA23[185], MengZRZL20[261], LombardiM12[244], Simonis07[343], ArtiguesBF04[16]	GeitzGSSW22[136], PrataAN23[311], OujanaAYB22[291], PohlAK22[304], Mercier-AubinGQ20[262], Novas19[283], LaborieRSV18[221], Pralet17[309], Cauwe-laertDMS16[76], NovaraNH16[282], DejemeppeCS15[92], GrimesH10[148], AkkerDH07[369], DavenportKRSH07[88], VilimBC05[383], Vilim04[377], Vilim02[375]
Concepts	setup time	PrataAN23[311], IsikYA23[185], LacknerMMWW23[223], abs-2305-19888[169], GeitzGSSW22[136], OujanaAYB22[291], WinterMMW22[395], AbreuN22[89], HeinzNVH22[168], PohlAK22[304], LacknerMMWW21[222], GroleazNS20[153], Mercier-AubinGQ20[262], NattafM20[277], LunardiBLRV20[248], MengZRZL20[261], QinDCS20[314], BogaerdW19[370], MalapertN19[253], MurinR19[272], Novas19[283], GedikKEK18[131], ZhangW18[411], Pralet17[309], Cauwe-laertDMS16[76], DejemeppeCS15[92], LombardiM12[244], GrimesH10[148], DavenportKRSH07[88], Simonis07[343], ArtiguesBF04[16]	KimCMLLP23[201], ArmstrongGOS21[13], AstrandJZ20[22], LaborieRSV18[221], NovaraNH16[282], GaySS14[130], KellarevaTK13[196], OzturkTHO13[292], BeniniBGM06[50], Vilim02[375], Timpe02[361]	LiFJZLL22[230], FanXG21[114], LaborieRSV18[221], GaySS14[130], KellarevaTK13[196], OzturkTHO13[292], BeniniBGM06[50], Vilim02[375], Timpe02[361]
Concepts	stock level	LopesCSM10[245], SimonisC95[344]	RossiTHP07[320], Timpe02[361]	KhemmoudjPB06[200]
Concepts	tardiness	PrataAN23[311], KimCMLLP23[201], IsikYA23[185], LacknerMMWW23[223], OujanaAYB22[291], WinterMMW22[395], AbreuN22[89], PohlAK22[304], abs-2211-14492[347], AntuoriHHEN21[11], LacknerMMWW21[222], FanXG21[114], Mercier-AubinGQ20[262], TangB20[351], MengZRZL20[261], BogaerdW19[370], abs-1902-09244[159], LaborieRSV18[221], NovaraNH16[282], ZarandiKS16[406], BartoliniB-BLM14[35], LombardiM12[244], GrimesH11[149], KelbelH11[197], KovacsB11[209], CobanH10[82], Davenport10[87], Laborie09[219], KeriK07[198], Hooker06[179], cp-Hooker05[178], ZeballosH05[407], HenttenryckM04[171], DannaP03[85]	abs-2402-00459[278], SubulanC22[346], KovacsTKSG21[214], GroleazNS20[153], GedikKEK18[131], Hooker17[180], NovasH10[284], Hooker05[177]	JuvinHL23[188], MehdiZadeh-Somarin23[259], asselGS23[354], abs-2306-05747[355], LiFJZLL22[230], ZhangJZL22[409], GeibingerMM21[135], HanenKP21[158], HubnerGSV21[183], KoehlerBFFHPSSS21[204], QinWSLS21[313], VlkHT21[386], LunardiBLRV20[248], QinDCS20[314], Novas19[283], ZhangW18[411], BurtLPS15[70], DejemeppeCS15[92], LimBTBB15[234], MelgarejoLS15[6], PraletLJ15[310], SialaAH15[339], CireCH13[80], HeinzKB13[164], KellarevaTK13[196], BillautHL12[54], HeinzB12[163], LimtanyakulS12[236], EdisO11[104], KovacsK11[211], ZeballosQH10[408], BeniniBGM06[50], KovacsV06[213], Hooker04[176]

Table 7: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
Concepts	task	PrataAN23[311], abs-2402-00459[278], JuvinHHL23[187], JuvinHL23[188], KameugneFND23[192], PovedaAA23[308], WangB23[390], AkramNHRSA23[7], YuraszeckMCCR23[405], abs-2305-19888[169], BoudreaultSLQ22[67], GeitzGSSW22[136], LiFJ- ZLL22[230], OuelletQ22[290], CampeauG22[72], HeinzNVH22[168], SubulanC22[346], abs- 2211-14492[347], ArmstrongGOS21[13], As- trand0F21[20], HanenKP21[158], HillTV21[174], KlankeBYE21[202], KovacsTKSG21[214], KoehlerBFFHPSSS21[204], PandeyS21a[293], Mercier-AubinGQ20[262], WangB20[389], WessenCS20[393], QinDCS20[314], GeibingerMM19[134], YangSS19[401], Es- cobetPQPRA19[109], Novas19[283], abs- 1901-07914[41], abs-1911-04766[133], As- trandJZ18[21], KameugneFGOQ18[191], OuelletQ18[289], FahimiOQ18[112], La- borieRSV18[221], PourDERB18[307], ShinBBHO18[337], MossigeGSMC17[268], KreterSS17[216], NattaAL17[276], BoothNB16[65], FontaineMH16[116], GilesH16[139], Madi-WambaB16[250], No- varaNH16[282], BurtLPS15[70], EvenSH15[110], GayHS15[128], KreterSS15[215], Mur- phyMB15[273], PraletLJ15[310], SialaAH15[339], VilimLS15[384], cpaior-GayHS15[129], EvenSH15a[111], GoelSHFS15[143], LetortCB15[229], NattaAL15[275], Si- moninAHL15[341], AlesioNBG14[99], BessiereHMqw14[53], GrimesIOS14[151], KameugneFSN14[194], NovasH14[286], Kelare- vaTK13[196], LetortCB13[228], OuelletQ13[288], SchuttFS13[329], cpaior-SchuttFS13[328], OzturkTHO13[292], IfrimOS12[184], LetortBC12[227], SimoninAHL12[340], LombardiM12[244], NovasH12[285], Bon- fiettiLBM11[61], GrimesH11[149], Her- menierDL11[173], KameugneFSN11[193], LahimerLH11[224], LombardiBMB11[241], Vilim11[381], HachemiGR11[157], Kel- belH11[197], KovacsK11[211], Schut- tFSW11[331], GrimesH10[148], Lom- bardiM10[243], SchuttW10[333], NovasH10[284], ZeballosQH10[408], GrimesHM09[150], Laborie09[219], LombardiM09[242], SchuttFSW09[330], cpaior-Vilim09[380], GarridoAO09[125], BarlattCG08[31], BeldiceanuCP08[44], GarridoOS08[126], LiessM08[231], BeldiceanuP07[45], Monet- teDD07[264], Simonis07[343], BeniniBGM06[50], KovacsV06[213], Hooker06[179], Khay- atLR06[199], FortinZDF05[117], FrankK05[118], cp-Hooker05[178], Hooker05[177], Ze- ballosH05[407], Hooker04[176], Ko- vacsV04[212], Wolf03[396], Bartak02[33], BeldiceanuC02[42], ElkhyariGJ02[106], Timpe02[361], VanczaM01[373], Heipck- eCCS00[170], SchildW00[326], RodosekW98[319], BelhadjiI98[46], Caseau97[75], Darby- DowmanLMZ97[86], Zhou97[414], Colom- bani96[84], Zhou96[413], Wallace96[387], Goltz95[146], SimonisC95[344]	Bit-Monnot23[55], SquillaciPR23[345], IsikYA23[185], LacknerMMWW23[223], Mon- temanniD23[267], MontemanniD23a[266], OujanaAYB22[291], PopovicCGNC22[306], WinterMMW22[395], AbreuN22[89], MullerMKP22[271], GeibingerMM21[135], HubnerGSV21[183], WallaceY20[388], WikarekS19[394], DemirovicS18[95], Li- uCGM17[238], YoungFS17[402], Hech- ingH16[162], GayHLS15[127], Lom- bardiBM15[240], Kameugne15[190], Bartolin- iBBLM14[35], BofilLEGPSV14[58], Bonfiet- tiLM14[63], Vilim05[378], MartinPY01[257], AngelsmarkJ00[10], PapaB98[295]	EfthymiouY23[105], Meh dizadeh- Somarin23[259], PerezGSL23[298], Tar- divoDFMP23[353], asse1GS23[354], abs- 2306-05747[355], abs-2312-13682[299], Arm- strongGOS22[14], ZhangJZL22[409], An- tuoriHHEN21[11], LacknerMMWW21[222], FanXG21[114], ZhangYW21[410], As- trandJZ20[22], BenediktMH20[48], MengZRZL20[261], SacramentoSP20[321], FrimodigS19[120], MalapertN19[253], Mur- inR19[272], abs-1902-01193[8], abs-1902- 09244[159], Laborie18a[220], Tesch18[359], GedikKEK18[131], CappartS17[73], Cauwelaert- DMS16[76], SzerediS16[350], ZarandiKS16[406], DejemeppeCS15[92], MelgarejoLS15[6], WangMD15[391], DoulabiRP14[102], CireCH13[80], HeinzSSW12[165], Chapa- dosJR11[78], EdisO11[104], BartakS11[34], SchausHMCMD11[325], TopalogluO11[363], LopesCSM10[245], DoomsH08[101], CarchraeBF05[74], VilimBC05[383], Henten- ryckM04[171], Sadykov04[322], Vilim04[377], OddiPCC03[287], VerfaillieL01[374], Ma- son01[258], BaptisteP00[29], SakkoutW00[324], BaptisteP97[28], BeckDF97[37], Puget95[312], Simonis95[342], Touraivane95[365]

Table 7: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
Concepts	temporal constraint reasoning			KeriK07[198], FortinZDF05[117]
Concepts	transportation	ArmstrongGOS22[14], PohlAK22[304], QinDCS20[314], MurinR19[272], GoelSHFS15[143], larevaTK13[196], chemiGR11[157], losH05[407]	GeitzGSSW22[136], ArmstrongGOS21[13], SacramentoSP20[321], PourDERB18[307], NovasH14[286], NovasH12[285], LopesCSM10[245], Zebal-	KimCMLLP23[201], AbreuN22[89], hashimaEG21[2], MengZRZL20[261], LaborieRSV18[221], EvenSH15[110], MelgarejoLS15[6], RendlPHPR12[317], MouraSCL08[270], LimRX04[232], Mason01[258], Wallace96[387]
			PopovicCGNC22[306], SubulanC22[346], Abo-	AalianPG23[1], PerezGSL23[298], WangB23[390], IsikYA23[185], MontemanniD23a[266], abs-2312-13682[299], BoudreaultSLQ22[67], LiFJZLL22[230], ZhangJZL22[409], abs-2211-14492[347], AntuoriHHEN21[11], HubnerGSV21[183], WallaceY20[388], Novas19[283], abs-1902-09244[159], HeoGLW18[160], GedikKEK18[131], ShinBBHO18[337], ZhangW18[411], GoldwaserS17[145], Klet-
				zanderM17[203], LiuCGM17[238], GilesH16[139], ZarandiKS16[406], PesantRR15[300], EvenSH15a[111], SimoninAHL15[341], Hound-
				jiSWD14[182], LombardiM12[244], Ko-
				vacsK11[211], TopalogluO11[363], Zebal-
				losQH10[408], Acuna-AgostMFG09[4], Bar-
				lattCG08[31], LauLN08[225], Simonis07[343], KamarainenS02[189], MartinPY01[257], SakkoutW00[324], RodosekW98[319], Puget95[312], Simonis95[342], SimonisC95[344]
Classification	RCPSP	PovedaAA23[308], BoudreaultSLQ22[67], SubulanC22[346], HillTV21[174], GeibingerMM19[134], abs-1911-04766[133], LaborieRSV18[221], MossigeGSMC17[268], YoungFS17[402], SchuttS16[332], KreterSS15[215], HeinzSB13[167], BertholdHMLS10[52], SchuttW10[333], DoomsH08[101], LiessM08[231], BaptisteP00[29], BaptisteP97[28]	YuraszeckMCCR23[405], CampeauG22[72], GeibingerMM21[135], HubnerGSV21[183], abs-1902-09244[159], KameugneFGOQ18[191], BofillCSV17[57], Pralet17[309], KreterSS17[216], SzerediS16[350], VilimLS15[384], LombardiM12[244], LombardiM10[243], LombardiM09[242], BaptisteP00[29], BaptisteP97[28]	KameugneFND23[192], Caballero23[71], Tesch18[359], GayHLS15[127], Lom-
			bardiBM15[240], NattafAL15[275], KameugneFSN14[194], KameugneFSN11[193], KeriK07[198], KovacsV06[213], Heipck-	TardivoDFMP23[353], KovacsTKSG21[214], WikarekS19[394], OuelletQ18[289], FahimiOQ16[112], BonfiettiZLM16[64], Tesch16[358], SialaAH15[339], cpaior-
				GayHS15[129], BonfiettiLM14[63], Der-
				rienP214[98], KoschB14[207], LetortCB13[228], OuelletQ13[288], SchuttFS13[329], cpaior-
				SchuttFS13[328], BonfiettiLBM12[62], BonfiettiLBM11[61], GrimesH11[149], LahimerLH11[224], LombardiBMB11[241], Vilim11[381], SchuttFSW11[331], AkkerDH07[369], ElkhyariGJ02[106], Hook-
				erY02[181]
Classification	fssp			YuraszeckMCCR23[405], WikarekS19[394]
Classification	jssp	JuvinHHL23[187], YuraszeckMC23[404], aselGS23[354], YuraszeckMCCR23[405], abs-2306-05747[355], GeitzGSSW22[136], ColT19[83], Pralet17[309], KelbelH11[197], PapaB98[295]	GalleguillosKSB19[123], LombardiBM15[240], SialaAH15[339], BelhadjiI98[46]	EfthymiouY23[105], Mehdizadeh-Somarin23[259], WikarekS19[394], PraletLJ15[310]
Classification	parallel machine	PrataAN23[311], 2305-19888[169], WinterMMW22[395], HeinzNVH22[168], NattafM20[277], MalapertN19[253], EdisO11[104]	IsikYA23[185], abs-2305-19888[169], OujanaAYB22[291], ZhangJZL22[409], PandeyS21a[293], MengZRZL20[261], GedikKEK18[131],	SacramentoSP20[321], BogaerdT19[370], Novas19[283], BenediktSMVH18[49], Ko-
			vacsB11[209], AkkerDH07[369]	JuvinHHL23[187], KimCMLLP23[201], Mehdizadeh-Somarin23[259], Lackner-
				MMWW23[223], ArmstrongGOS22[14], HananKP21[158], LacknerMMWW21[222], AbohashimaEG21[2], FanXG21[114], AstrandJZ20[22], QinDCS20[314], La-
				borieRSV18[221], KletzanderM17[203], KreterSS17[216], FontaineMH16[116], BurtLPS15[70], KreterSS15[215], NovasH14[286], LombardiM12[244], LahimerLH11[224], Ar-
				tiouchineB05[18], Sadykov04[322]

Table 7: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
Classification	psplib	TardivoDFMP23[353], OuelletQ18[289], cpaior-GayHS15[129], LetortCB15[229], Der- rienP14[97], KameugneFSN14[194], cpaior- SchuttFS13[328], HeinzSB13[167], Schut- tFSW11[331], BertholdHMLS10[52], Schut- tFSW09[330]	KameugneFND23[192], BoudreaultSLQ22[67], HillTV21[174], Tesch18[359], FahimiOQ18[112], SzerediS16[350], Tesch16[358], GayHLS15[127], LombardiBM15[240], VilimLS15[384], Bonfiet- tiLM14[63], LetortCB13[228], LetortBC12[227], Vilim11[381], SchuttW10[333]	LaborieRSV18[221], BofillCSV17[57], Pralet17[309], YoungFS17[402], OuelletQ13[288], LombardiM12[244], KameugneFSN11[193], LiessM08[231], FortinZDF05[117]
Classification	single machine	PrataAN23[311], LacknerMMWW23[223], BenediktMH20[48], BogaerdtW19[370], Ko- vacsB11[209]	HillTV21[174], LacknerMMWW21[222], KoehlerBFFHPSSS21[204], PandeyS21a[293], NattafM20[277], BenediktSMVH18[49], Tesch18[359], KoschB14[207], Bil- lautHL12[54], KovacsK11[211], AkkerDH07[369], Sadykov04[322], OddiPCC03[287], SchildW00[326]	abs-2402-00459[278], Mehdizadeh- Somarin23[259], IsikYA23[185], GeitzGSSW22[136], LiFJZLL22[230], ZhangJZL22[409], AbreuN22[89], PohlAK22[304], abs-2211-14492[347], Ko- vacsTKSG21[214], FanXG21[114], Qin- WSLS21[313], TangB20[351], MalapertN19[253], AstrandJZ18[21], GedikKEK18[131], MossigeGSMC17[268], ZarandiKS16[406], BurtLPS15[70], DejemeppeCS15[92], Melgare- joLS15[6], HoundjiSWD14[182], NovasH14[286], GuSS13[155], HeinzKB13[164], HeinzSB13[167], HeinzB12[163], KovacsV06[213], Artiouch- ineB05[18], ChuX05[79], KovacsV04[212], BeldiceanuC02[42], HeipckeCCS00[170], SakkoutW00[324], BeckDF97[37], Darby- DownmanLMZ97[86]
Constraints	alldifferent	JuvinHHL23[187], KoehlerBFFHPSSS21[204], Si- monis07[343]	BessiereHMQW14[53], KelarevaTK13[196]	WangB23[390], WangB20[389], AstrandJZ20[22], FahimiOQ18[112], MelgarejoLS15[6], Ale- sioNBG14[99], ClercqPBJ11[81], Her- menierDL11[173], HachemiGR11[157], LopesCSM10[245]
Constraints	alternative constraint	LaborieRSV18[221]	abs-2305-19888[169], MurinR19[272]	LacknerMMWW23[223], WinterMMW22[395], ZhangJZL22[409], HeinzNVH22[168], Arm- strongGOS21[13], HillTV21[174], Hubn- erGSV21[183], PandeyS21a[293], VlkHT21[386], MengZRZL20[261], SacramentoSP20[321], Gal- leguillosKSB19[123], GeibingerMM19[134], MalapertN19[253], EscobetPQPRA19[109], abs-1911-04766[133], Laborie18a[220], Cap- partS17[73], NovaraNH16[282], PraletLJ15[310], BartoliniBBLM14[35], SchuttFS13[329], HeinzB12[163], Laborie09[219]
Constraints	alwaysin	PopovicCGNC22[306], SerraNM12[334]	AalianPG23[1], TangB20[351], MalapertN19[253], LaborieRSV18[221], GoelSHFS15[143]	CampeauG22[72], KreterSS17[216]
Constraints	bin packing	TangB20[351], LetortCB15[229], LetortCB13[228], LetortBC12[227], HeinzSSW12[165], SchausHMCMD11[325]	FrimodigS19[120], GarganiR07[124], SakkoutW00[324], SchildW00[326]	abs-2402-00459[278], AkramNHSA23[7], Lack- nerMMWW23[223], abs-2211-14492[347], ArmstrongGOS21[13], DoulabiRP14[102], KoschB14[207], LimtanyakulS12[236], EdisO11[104], HermenierDL11[173], Henten- ryckM08[172], DavenportKRSH07[88], Simo- nis07[343]

Table 7: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
Constraints	circuit	MontemanniD23a[266], Mercier-AubinGQ20[262], Wallace96[387]	KlankeBYE21[202], WessenCS20[393], KrogtLPHJ07[371], Kuchcin- skiW03[217]	PrataAN23[311], IsikYA23[185], Monte- manniD23[267], MullerMKP22[271], Arm- strongGOS21[13], KoehlerBFFHPSSS21[204], GroleazNS20[153], WallaceY20[388], Esco- betPQPRA19[109], Hooker17[180], Hech- ingH16[162], MelgarejoLS15[6], Mur- phyMB15[273], HoundjiSWD14[182], CireCH13[80], cpaior-SchuttFS13[328], LombardiM12[244], SchuttFSW11[331], CobanH10[82], Hooker06[179], cp-Hooker05[178], Hooker05[177], Hooker04[176], MartinPY01[257], RodosekW98[319], Simonis95[342]
Constraints	cumulative	AalianPG23[1], KameugneFND23[192], PovedaAA23[308], TardivoDFMP23[353], IsikYA23[185], LacknerMMWW23[223], BoudreaultSLQ22[67], OuelletQ22[290], ZhangJZL22[409], PohlAK22[304], Ha- nenKP21[158], KovacsTKSG21[214], Lackner- MMWW21[222], GroleazNS20[153], Mercier- AubinGQ20[262], SacramentoSP20[321], WallaceY20[388], GeibingerMM19[134], MalapertN19[253], YangSS19[401], No- vas19[283], abs-1911-04766[133], KameugneF- GOQ18[191], OuelletQ18[289], Tesch18[359], FahimiOQ18[112], LaborieRSV18[221], MossigeGSMC17[268], Pralet17[309], YoungFS17[402], KreterSS17[216], NattafAL17[276], SchuttS16[332], Szere- diS16[350], Tesch16[358], NovaraNH16[282], EvenSH15[110], GayHS15[128], KreterSS15[215], MurphyMB15[273], VilimLS15[384], cpaior-GayHS15[129], EvenSH15a[111], GoelSHFS15[143], Kameugne15[190], LetortCB15[229], NattafAL15[275], Si- moninAHL15[341], DejemeppeD14[93], DerrienP14[97], DerrienPZ14[98], GaySS14[130], KameugneFSN14[194], HeinzKB13[164], LetortCB13[228], Ouel- letQ13[288], SchuttFS13[329], cpaior- SchuttFS13[328], HeinzSB13[167], BonfiettiLBM12[62], HeinzB12[163], LetortBC12[227], SchuttCSW12[327], Ser- raNM12[334], LombardiM12[244], Cler- cqPBJ11[81], KameugneFSN11[193], Vilim11[381], KelbelH11[197], Schut- tFSW11[331], BertholdHMLS10[52], Lom- bardiM10[243], SchuttW10[333], Schut- tFSW09[330], Vilim09[379], cpaior-Vilim09[380], BeldiceanuCP08[44], BeldiceanuP07[45], Simonis07[343], KhemmoudjPB06[200], Hooker06[179], cp-Hooker05[178], Hooker05[177], HentenryckM04[171], Hooker04[176], BeldiceanuC02[42], HookerY02[181], Baptis- teP00[29], PapaB98[295], BaptisteP97[28], Goltz95[146], SimonisC95[344]	PrataAN23[311], abs-2402-00459[278], EfthymiouY23[105], PerezGSL23[298], abs-2312-13682[299], GeitzGSSW22[136], AbreuN22[89], CampeauG22[72], HillTV21[174], KlankeBYE21[202], HubnerGSV21[183], NattafM20[277], GalleguillosKSB19[123], GedikKEK18[131], BonfiettiZLM16[64], BoothNB16[65], LimHTB16[233], BurtLPS15[70], GayHLS15[127], GuSS13[155], LimtanyakulS12[236], BartakS11[34], Ko- vacsB11[209], GrimesH10[148], AkkerDH07[369], BeniniBGM06[50], KovacsV06[213], ChuX05[79], VilimBC05[383], KovacsV04[212], Vil- imBC04[382], Caseau97[75]	Bit-Monnot23[55], JuvinHHL23[187], as- selGS23[354], GurPAE23[156], YuraszcekM- CCR23[405], abs-2305-19888[169], abs-2306- 05747[355], ArmstrongGOS22[14], Popovic- CGNC22[306], HeinzNVH22[168], Subu- lanC22[346], abs-2211-14492[347], Arm- strongGOS21[13], GeibingerMM21[135], KoehlerBFFHPSSS21[204], PandeyS21a[293], FrimodigS19[120], WikarekS19[394], abs-1902- 09244[159], AstrandJZ18[21], DemirovicS18[95], Laborie18a[220], ZhangW18[411], BofillCSV17[57], CappartS17[73], Gold- waserS17[145], CauwelaertDMS16[76], GilesH16[139], Madi-WambaB16[250], DejemeppeCS15[92], PesantRR15[300], SialaAH15[339], WangMD15[391], BartoliniB- BLM14[35], BonfiettiLM14[63], KoschB14[207], CireCH13[80], OzturkTHO13[292], Simonin- AHL12[340], BonfiettiLBM11[61], Chapad- dosJR11[78], EdisO11[104], GrimesH11[149], HermenierDL11[173], LombardiBMB11[241], La- borie09[219], LiessM08[231], RossiTHP07[320], ArtiouchineB05[18], Vilim05[378], Vilim04[377], Vilim03[376], Wolf03[396], Bartak02[33], ElkhyariGJ02[106], Vilim02[375], Timpe02[361], HeipckeCCS00[170], BeckDF97[37], Zhou97[414], Simonis95[342]

Table 7: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
Constraints	diffn	ArmstrongGOS21[13], Simonis07[343]		KreterSS17[216], KreterSS15[215], Timpe02[361], Simonis95[342], SimonisC95[344]
Constraints	disjunctive	Bit-Monnot23[55], JuvinHHL23[187], KoehlerBFFHPSSS21[204], FahimiOQ18[112], LaborieRSV18[221], MossigeGSMC17[268], Pralet17[309], NattafAL17[276], FontaineMH16[116], MelgarejoLS15[6], SialaAH15[339], cpaior-GayHS15[129], GoelSHFS15[143], SchuttFS13[329], cpaior-SchuttFS13[328], OzturkTHO13[292], LombardiM12[244], SchuttFSW11[331], GrimesH10[148], SchuttW10[333], LopesCSM10[245], GrimesHM09[150], BeldiceanuCP08[44], ArtiguesBF04[16], HentenryckM04[171], Wolf03[396], BaptisteP00[29], SakkoutW00[324], RodosekW98[319], BelhadjiI98[46], PapaB98[295], BaptisteP97[28], Zhou97[414], Zhou96[413]	BoudreaultLQ22[67], Astrand0F21[20], GeibingerMM21[135], AstrandJZ20[22], SacramentoSP20[321], YangSS19[401], DemirovicS18[95], KameugneFGOQ18[191], EvenSH15[110], GayHS15[128], VilimLS15[384], EvenSH15a[111], SimoninAHL15[341], GaySS14[130], KameugneFSN14[194], GrimesH11[149], KelbelH11[197], MouraSCL08[270], LiessM08[231], MonetteDD07[264], ArtiouchineB05[18], SchildW00[326], Darby-DowmanLMZ97[86]	abs-2402-00459[278], EfhymiouY23[105], KameugneFND23[192], PovedaAA23[308], TardivoDFMP23[353], asseLSG23[354], LacknerMMWW23[223], abs-2306-05747[355], OuelletQ22[290], OujanaAYB22[291], MullerMKP22[271], abs-2211-14492[347], KlankeBYE21[202], ZhangYW21[410], MercierAubinGQ20[262], WallaceY20[388], ColT19[83], WikarekS19[394], abs-1911-04766[133], AstrandJZ18[21], OuelletQ18[289], GoldwaserS17[145], YoungFS17[402], BonfiettiZLM16[64], BoothNB16[65], CauwelaertDMS16[76], GilesH16[139], Tesch16[358], NovaraNH16[282], DejemeppeCS15[92], GayHLS15[127], MurphyMB15[273], Siala15[338], KoschB14[207], GrimesIOS14[151], LetortCB13[228], OuelletQ13[288], HeinzSB13[167], IfrimOS12[184], SimoninAHL12[340], LimtanyakulS12[236], HermenierDL11[173], KameugneFSN11[193], LahimerLH11[224], Vilim11[381], KovacsB11[209], BertholdHLMS10[52], CobanH10[82], LombardiM10[243], Laborie09[219], SchuttFSW09[330], GarridoAO09[125], WatsonB08[392], BeldiceanuP07[45], DavenportKRSH07[88], Simonis07[343], Hooker06[179], ChuX05[79], Vilim05[378], cp-Hooker05[178], Hooker05[177], VilimBC05[383], Hooker04[176], KovacsV04[212], Sadykov04[322], Vilim04[377], VilimBC04[382], DannaP03[85], Vilim03[376], Bartak02[33], ElkhayariGJ02[106], HookerY02[181], Vilim02[375], Timpe02[361], VanczaM01[373], HeipckeCCS00[170], Colombani96[84], Wallace96[387], Goltz95[146], Puget95[312]
Constraints	endbeforestart	SubulanC22[346], QinDCS20[314]		IsikYA23[185], PandeyS21a[293], LunardiBLRV20[248], MengZRZL20[261], LaborieRSV18[221], NovaraNH16[282], Laborie09[219]
Constraints	nooverlap	JuvinHHL23[187], IsikYA23[185], abs-2305-19888[169], PopovicCGNC22[306], HeinzNVH22[168], VlkHT21[386], LunardiBLRV20[248], QinDCS20[314], GedikKEK18[131], MelgarejoLS15[6]	KimCMLLP23[201], asseLSG23[354], LacknerMMWW23[223], abs-2306-05747[355], AbreuN22[89], PohlAK22[304], KlankeBYE21[202], BenediktMH20[48], MengZRZL20[261], SacramentoSP20[321], MalapertN19[253], MurinR19[272], EscobetPQPRA19[109], Novas19[283], abs-1911-04766[133], LaborieRSV18[221], ZhangW18[411], BoothNB16[65], NovaraNH16[282], PraletLJ15[310], GoelSHFS15[143], EdisO11[104]	AalianPG23[1], JuvinHL23[188], Squil-laciPR23[345], YuraszeckMC23[404], ArmstrongGOS22[14], OujanaAYB22[291], WinterMMW22[395], ZhangJZL22[409], CampeauG22[72], LacknerMMWW21[222], GroleazNS20[153], NattafM20[277], BogaerdtW19[370], ColT19[83], GeibingerMM19[134], BenediktSMVH18[49], CappartS17[73], HechingH16[162], VilimLS15[384], WangMD15[391], Laborie09[219]

Table 7: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
Constraints	regular expression		FrimodigS19[120]	
Constraints	span constraint		CappartS17[73], SchuttFS13[329], Darby-DowmanLMZ97[86]	OujanaAYB22[291], TangB20[351], LaborieRSV18[221], SimoninAHL15[341], SimoninAHL12[340], SchuttFSW11[331]
Constraints	table constraint	PapaB98[295]		PerezGSL23[298], abs-2312-13682[299], ArmstrongGOS21[13], GayHS15[128], MelgarejoLS15[6], PesantRR15[300], LimtanyakulS12[236], HermenierDL11[173], LopesCSM10[245], MouraSCL08[270], ElkhyariGJ02[106]
ProgLanguages	C++			JuvinHHL23[187], TardivoDFMP23[353], PopovicCGNC22[306], AntuoriHHEN21[11], QinWLSL21[313], Mercier-AubinGQ20[262], AstrandJZ20[22], abs-1902-01193[8], LaborieRSV18[221], NattafAL17[276], BoothNB16[65], Tesch16[358], NattafAL15[275], LahimerLH11[224], LombardiBMB11[241], KovacsB11[209], KovacsK11[211], LopesCSM10[245], MouraSCL08[270], WatsonB08[392], LiessM08[231], DavenportKRSH07[88], GarganiR07[124], KeriK07[198], KhemmoudjPB06[200], Vilim05[378], ArtiguesBF04[16], Timpe02[361], BaptisteP00[29], PapaB98[295], BaptisteP97[28]
ProgLanguages	c	KoehlerBFFHPSSS21[204]		HubnerGSV21[183], BogaerdtW19[370], LaborieRSV18[221], Laborie09[219], GarridoOS08[126]
ProgLanguages	java		KuchcinskiW03[217]	KameugneFND23[192], asselGS23[354], abs-2306-05747[355], OuelletQ22[290], MullerMKP22[271], AntuoriHHEN21[11], ArmstrongGOS21[13], FanXG21[114], TangB20[351], SacramentoSP20[321], ColT19[83], GeibingerMM19[134], abs-1911-04766[133], KameugneFGOQ18[191], OuelletQ18[289], LaborieRSV18[221], CauwelaertDMS16[76], Madi-WambaB16[250], MurphyMB15[273], cpaio-GayHS15[129], EvenSH15a[111], LetortCB15[229], DerrienP14[97], KoschB14[207], LetortCB13[228], LetortBC12[227], RendIPHPR12[317], ClercqPB11[81], SchuttW10[333], GrimesHM09[150], GarridoAO09[125], GarridoOS08[126], OddiPCC03[287], Wolf03[396]
ProgLanguages	julia			
ProgLanguages	lisp			Wallace96[387]
ProgLanguages	prolog	ArmstrongGOS21[13], FalaschiGMP97[113], Zhou97[414], Wallace96[387], Simonis95[342], Touraivane95[365]	MossigeGSMC17[268], MartinPY01[257], RodosekW98[319], Zhou96[413], SimonisC95[344]	ArmstrongGOS22[14], PopovicCGNC22[306], YangSS19[401], abs-1902-01193[8], LetortCB15[229], LetortCB13[228], LetortBC12[227], BeldiceanuCP08[44], KrogtLPHJ07[371], Simonis07[343], Bartak02[33], BeldiceanuC02[42], Darby-DowmanLMZ97[86], Goltz95[146]

Table 7: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
ProgLanguages	python	KoehlerBFFHPSSS21[204]	AbreuN22[89], eRSV18[221]	abs-2211-14492[347], Labori-
				EfthymiouY23[105], KimCMLLP23[201], Mehdizadeh-Somarin23[259], PovedaAA23[308], SquillaciPR23[345], AkramNHRSA23[7], MontemanniD23[267], MontemanniD23a[266], CampeauG22[72], MullerMKP22[271], PohlAK22[304], HanenKP21[158], Klanke-BYE21[202], AbohashimaEG21[2], FanXG21[114], Mercier-AubinGQ20[262], LunardiBLRV20[248], FrimodigS19[120], GalleguillosKSB19[123], abs-1901-07914[41], abs-1902-01193[8], He0GLW18[160], GoldwaserS17[145], LiuCGM17[238]
CPSystems	CHIP	Simonis07[343], Wallace96[387], Goltz95[146], Simonis95[342], SimonisC95[344]	ArmstrongGOS21[13], YangSS19[401], LaborieRSV18[221], Timpe02[361], RodosekW98[319], Zhou97[414]	PrataAN23[311], KameugneFND23[192], TardivoDFMP23[353], PopovicCGNC22[306], KlankeBYE21[202], abs-1902-01193[8], KameugneFGOQ18[191], MossigeGSMC17[268], Pralet17[309], KreterSS17[216], FontaineMH16[116], Madi-WambaB16[250], KreterSS15[215], LetortCB15[229], SimoninAHL15[341], DerrienPZ14[98], GrimesIOS14[151], KameugneFSN14[194], cpaior-SchuttFS13[328], OzturkTHO13[292], LetortBC12[227], SchuttCSW12[327], SimoninAHL12[340], ClercqpBJ11[81], SchuttFSW11[331], SchuttW10[333], SchuttFSW09[330], BeldiceanuCP08[44], DavenportKRS07[88], KhemmoudjPB06[200], BeldiceanuC02[42], BaptisteP00[29], SakkoutW00[324], PapaB98[295], BaptisteP97[28], Colombani96[84]
CPSystems	OPL	LacknerMMWW23[223], LacknerMMWW21[222], KoehlerBFFHPSSS21[204], PandeyS21a[293], QinDCS20[314], EscobetPQPRA19[109], Novas19[283], LaborieRSV18[221], NovaraNH16[282], AlessioNBG14[99], HachemiGR11[157], ZeballosQH10[408], Laborie09[219], KhayatLR06[199]	MullerMKP22[271], SubulanC22[346], MurinR19[272], Laborie18a[220], NovasH14[286], OzturkTHO13[292], SerraNM12[334], NovasH12[285], EdisO11[104], KelbelH11[197], TopalogluO11[363], NovasH10[284], GarganiR07[124], KrogtLPHJ07[371], Hooker06[179], cp-Hooker05[178], ZeballosH05[407], VerfailleL01[374]	IsikYA23[185], YuraszeckMCCR23[405], ArmstrongGOS22[14], GeitzGSSW22[136], LiFJZLL22[230], OujanaAYB22[291], MengZRZL20[261], abs-1902-09244[159], ZhangW18[411], CappartS17[73], HechingH16[162], GoelSHFS15[143], CireCH13[80], HeinzB12[163], BartakS11[34], CobanH10[82], RossiTHP07[320], Hooker05[177], Hooker04[176], RodosekW98[319], Wallace96[387]
CPSystems	OZ		MaraveliasG04[256]	
CPSystems	Z3	KoehlerBFFHPSSS21[204]	VlkHT21[386]	ZhangW18[411], BofillCSV17[57], Zhou96[413]
CPSystems	choco	asselGS23[354], abs-2306-05747[355], LetortCB15[229], LetortCB13[228], OuelletQ13[288], LetortBC12[227], GrimesHM09[150], GarridoAO09[125], GarridoOS08[126]	KameugneFND23[192], MullerMKP22[271], AntuoriHHEN21[11], KameugneFGOQ18[191], FahimiOQ18[112], LaborieRSV18[221], GayHS15[128], DerrienP14[97], DerrienPZ14[98], KoschB14[207], ClercqpBJ11[81], HernerDL11[173]	EvenSH15[110], MurphyMB15[273], EvenSH15a[111], BessiereHMqw14[53], RossiTHP07[320]
CPSystems	chuffed	PovedaAA23[308], LacknerMMWW23[223], BoudreaultSLQ22[67], MullerMKP22[271], ArmstrongGOS21[13], GeibingerMM21[135], LacknerMMWW21[222], KoehlerBFFHPSSS21[204], WallaceY20[388], abs-1911-04766[133], YoungFS17[402], KreterSS17[216], SzerediS16[350], KreterSS15[215]		SchuttS16[332]
CPSystems	claire	BaptisteP00[29]	BaptisteP97[28]	HanenKP21[158], PapaB98[295]

Table 7: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
CPSystems	cplex	WinterMMW22[395], MullerMKP22[271], Sub- ulanC22[346], GeibingerKKMMW21[132], Hub- nerGSV21[183], KoehlerBFFHPSSS21[204], PandeyS21a[293], LunardiBLRV20[248], MengZRZL20[261], QinDCS20[314], Sacra- mentoSP20[321], GeibingerMM19[134], MurinR19[272], abs-1911-04766[133], La- borieRSV18[221], KreterSS17[216], No- varaNH16[282], KoschB14[207], CireCH13[80], HeinzSB13[167], Mason01[258], Darby- DowmanLMZ97[86]	Mehdizadeh-Somarin23[259], IsikYA23[185], LacknerMMWW23[223], CampeauG22[72], ArmstrongGOS21[13], KovacsTKSG21[214], LacknerMMWW21[222], QinWSLS21[313], NattafM20[277], WallaceY20[388], MalapertN19[253], Novas19[283], abs- 1902-09244[159], HechingH16[162], Bofill- GSV15[59], PraletLJ15[310], VilimLS15[384], NattafAL15[275], BofillEGPSV14[58], GrimesIOS14[151], HeinzKB13[164], Bil- lautHL12[54], HeinzB12[163], SerraNM12[334], LimtanyakulS12[236], EdisO11[104], GrimesH11[149], KelbelH11[197], Hooker05[177], Hooker04[176], DannaP03[85], SakkoutW00[324], RodosekW98[319]	AalianPG23[1], JuvinHL23[188], PovedaAA23[308], SquillacIPR23[345], GurPAE23[156], YuraszeckMCCR23[405], PopovicCGNC22[306], AbreuN22[89], PohlAK22[304], abs-2211-14492[347], GeibingerMM21[135], KlankeBYE21[202], FanXG21[114], VlkHT21[386], ZhangYW21[410], TangB20[351], BogaerdtW19[370], FrimodigS19[120], EscobetPQPRA19[109], GedikKEK18[131], PourDERB18[307], ZhangW18[411], Pralet17[309], NattafAL17[276], BoothNB16[65], GilesH16[139], SzerediS16[350], BurtLPS15[70], KreterSS15[215], Melgare- joLS15[6], GoelSHFS15[143], WangMD15[391], AlesioNBG14[99], DoulabiRP14[102], Ke- larevaTK13[196], OzturkTHO13[292], HeinzSSW12[165], HachemiGR11[157], KovacsK11[211], TopalogluO11[363], BertholdHLMs10[52], CobanH10[82], Daven- port10[87], ZeballosQH10[408], AkkerDH07[369], DavenportKRSH07[88], BeniniBGM06[50], Hooker06[179], KhayatLR06[199], cp- Hooker05[178], Timpe02[361], VerfaillieL01[374], BensanaLV99[51]
CPSystems	cpo	Bit-Monnot23[55], JuvinHHL23[187], Lack- nerMMWW23[223], WinterMMW22[395], Arm- strongGOS21[13], LacknerMMWW21[222], GroleazNS20[153], NattafM20[277], Sacra- mentoSP20[321], ColT19[83], GeibingerMM19[134], MalapertN19[253], LaborieRSV18[221], KreterSS17[216], PraletLJ15[310], GoelSHFS15[143], Laborie09[219]	AalianPG23[1], abs-1911-04766[133]	JuvinHL23[188], PovedaAA23[308], Ou- janaAYB22[291], GeibingerMM21[135], TangB20[351], Laborie18a[220], Pralet17[309], VilimLS15[384], Vilim09[379], Garri- doAO09[125], GarridoOS08[126]
CPSystems	eclipse	RodosekW98[319]	SchuttFSW11[331], KamarainenS02[189], Darby- DowmanLMZ97[86], Wallace96[387]	FanXG21[114], WikarekS19[394], Ze- ballosQH10[408], SchuttFSW09[330], BeniniBGM06[50], ChuX05[79], Mart- inPY01[257]
CPSystems	gecode	TardivoDFMP23[353], AstrandJZ20[22], Szere- diS16[350], GayHS15[128], KameugneFSN14[194]	MullerMKP22[271], AntuoriHHEN21[11], As- trand0F21[20], GeibingerKKMMW21[132], GeibingerMM19[134], abs-1911-04766[133], LaborieRSV18[221], BurtLPS15[70], Bofil- IEGPSV14[58], KameugneFSN11[193], Ko- vacsK11[211]	ArmstrongGOS21[13], WessenCS20[393], MengZRZL20[261], WallaceY20[388], FrimodigS19[120], YangSS19[401], As- trandJZ18[21], GoldwaserS17[145], Pe- santRR15[300], MonetteDD07[264]
CPSystems	gurobi	WangB23[390], LacknerMMWW23[223], Win- terMMW22[395], GeibingerKKMMW21[132], KovacsTKSG21[214], LacknerMMWW21[222], KoehlerBFFHPSSS21[204], WangB20[389], WallaceY20[388]	VlkHT21[386], GoldwaserS17[145], FontaineMH16[116]	KimCMLLP23[201], MontemanniD23[267], abs-2305-19888[169], HeinzNVH22[168], PohlAK22[304], KlankeBYE21[202], Abo- hashimaEG21[2], FanXG21[114], Hub- nerGSV21[183], BenediktMH20[48], MengZRZL20[261], BenediktSMVH18[49], DemirovicS18[95], He0GLW18[160], BurtLPS15[70], PesantRR15[300]

Table 7: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
CPSystems	ilog scheduler	GrimesH11[149], ZeballosQH10[408]	LaborieRSV18[221], LimtanyakulS12[236], GrimesHM09[150], losH05[407]	HeinzB12[163], NovasH12[285], WatsonB08[392], Zebal-
				Laborie18a[220], SchuttS16[332], NovasH14[286], LahimerLH11[224], HachemiGR11[157], KovacsB11[209], SchuttFSW11[331], LopesCSM10[245], NovasH10[284], cpaio- Vilim09[380], MouraSCL08[270], Simonis07[343], KovacsV06[213], Hooker06[179], Artiouch- ineB05[18], WuBB05[400], cp-Hooker05[178], Hooker05[177], ArtiguesBF04[16], Hooker04[176], KovacsV04[212], DannaP03[85], BaptisteP00[29], Zhou97[414]
CPSystems	ilog solver	GrimesH11[149], ZeballosQH10[408]		abs-1902-01193[8], LaborieRSV18[221], ZarandiKS16[406], PesantRR15[300], No- vasH14[286], OzturkTHO13[292], Bon- fiettiLBM12[62], HeinzB12[163], No- vasH12[285], BonfiettiLBM11[61], Kel- belH11[197], KovacsB11[209], KovacsK11[211], TopalogluO11[363], LombardiM10[243], LopesCSM10[245], LombardiM09[242], MouraSCL08[270], BeniniBGM06[50], Zebal- losH05[407], ArtiguesBF04[16], DannaP03[85], MartinPY01[257], SchildW00[326], Ben- sanaLV99[51], PapaB98[295], Wallace96[387]
CPSystems	mini zinc	TardivoDFMP23[353], LacknerMMWW23[223], BoudreaultSLQ22[67], MullerMKP22[271], Arm- strongGOS21[13], LacknerMMWW21[222], KoehlerBFFHPSSS21[204], Mercier- AubinGQ20[262], WallaceY20[388], ColT19[83], GeibingerMM19[134], abs-1911-04766[133], Li- uCGM17[238], YoungFS17[402], SzerediS16[350], BofillEGPSV14[58], KelarevaTK13[196]	PovedaAA23[308], KreterSS15[215]	KreterSS17[216], Bit-Monnot23[55], GeibingerKKMMW21[132], abs-1901-07914[41], FontaineMH16[116], BurtLPS15[70], HeinzSB13[167]
CPSystems	mistral	JuvinHHL23[187], GrimesHM09[150]	Bit-Monnot23[55], BillautHL12[54]	SialaAH15[339]
CPSystems	or tools	abs-2402-00459[278], LacknerMMWW23[223], MullerMKP22[271], abs-2211-14492[347], Ko- vacsTKSG21[214], LacknerMMWW21[222], KoehlerBFFHPSSS21[204], ColT19[83], GayHS15[128]	EfthymiouY23[105], BoudreaultSLQ22[67], GeibingerKKMMW21[132], LiuCGM17[238]	Bit-Monnot23[55], KimCMLLP23[201], AkramNHRSA23[7], MontemanniD23[267], MontemanniD23a[266], KlankeBYE21[202], GroleazNS20[153], MengZRZL20[261], Gal- leguillosKSB19[123], YangSS19[401], abs- 1901-07914[41], PourDERB18[307], Bonfietti- ZLM16[64], LombardiM12[244]
CPSystems	sicstus	ArmstrongGOS21[13], LetortCB15[229], LetortCB13[228], LetortBC12[227]	MossigeGSMC17[268], SchuttFSW11[331]	ArmstrongGOS22[14], PopovicCGNC22[306], YangSS19[401], SchuttFSW09[330], BeldiceanuCP08[44], Bartak02[33], BeldiceanuC02[42]
ApplicationAreas	COVID		GeibingerKKMMW21[132]	Mehdizadeh-Somarin23[259], GurPAE23[156], OujanaAYB22[291]
ApplicationAreas	HVAC	LimHTB16[233], LimBTBB15[234]	GrimesIOS14[151]	
ApplicationAreas	agriculture			AkramNHRSA23[7], Astrand0F21[20], Qin- WSLS21[313]
ApplicationAreas	aircraft	PohlAK22[304], WangB20[389], Lom- bardiM12[244], FrankK05[118]	ArtiouchineB05[18], WangB23[390], Simonis07[343], SakkoutW00[324]	PrataAN23[311], PovedaAA23[308], abs-1902- 09244[159], LaborieRSV18[221], Laborie09[219], KrogtLPHJ07[371], MartinPY01[257], Darby- DowmanLMZ97[86], Wallace96[387], Simon- is95[342], SimonisC95[344]

Table 7: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
ApplicationAreas	automotive		LimtanyakulS12[236], LimtanyakulS12[236], BarlattCG08[31], BarlattCG08[31], SchildW00[326], SchildW00[326]	PovedaAA23[308], PovedaAA23[308], AntuoriHHEN21[11], HubnerGSV21[183], KoehlerBFFHPSSS21[204], VlkHT21[386], AntuoriHHEN21[11], HubnerGSV21[183], KoehlerBFFHPSSS21[204], VlkHT21[386], GeibingerMM19[134], abs-1911-04766[133], GeibingerMM19[134], abs-1911-04766[133], BonfiettiZLM16[64], BonfiettiZLM16[64], AlesioNBG14[99], AlesioNBG14[99], BeniniBGM06[50], KovacsV06[213], BeniniBGM06[50], KovacsV06[213], Wallace96[387], Wallace96[387]
ApplicationAreas	cable tree	KoehlerBFFHPSSS21[204]		
ApplicationAreas	car manufacturing		AntuoriHHEN21[11]	
ApplicationAreas	container terminal	QinDCS20[314], SacramentoSP20[321]	LaborieRSV18[221]	PerezGSL23[298], abs-2312-13682[299], WallaceY20[388], CauwelaertDMS16[76], DejemeppeCS15[92], NovasH12[285], LimRX04[232]
ApplicationAreas	crew scheduling	PourDERB18[307]	Mason01[258], Touraivane95[365]	WangB23[390], HeinzNVH22[168], HachemiGR11[157], BeldiceanuC02[42]
ApplicationAreas	dairies			Bartak02[33]
ApplicationAreas	dairy	EscobetPQPRA19[109]	PrataAN23[311]	
ApplicationAreas	datacenter	HermenierDL11[173]		GalleguillosKSB19[123], IfrimOS12[184], LetortBC12[227]
ApplicationAreas	datacentre			
ApplicationAreas	day ahead market			
ApplicationAreas	deep space			
ApplicationAreas	earth observation	SquillaciPR23[345], VerfaillieL01[374]	BensanaLV99[51]	PraletLJ15[310], SimoninAHL15[341], KelarevaTK13[196], OddiPCC03[287]
ApplicationAreas	earth orbit			SquillaciPR23[345]
ApplicationAreas	electroplating		RodosekW98[319]	EfthymiouY23[105], WallaceY20[388], NovasH12[285]
ApplicationAreas	energy price	GrimesIOS14[151], IfrimOS12[184]		PrataAN23[311], EscobetPQPRA19[109], BenediktSMVH18[49], He0GLW18[160], LimHTB16[233]
ApplicationAreas	farming			WinterMMW22[395], AstrandOF21[20]
ApplicationAreas	forestry	HachemiGR11[157]		AstrandOF21[20]
ApplicationAreas	hoist	EfthymiouY23[105], WallaceY20[388], RodosekW98[319]	NovasH12[285], BonfiettiLBM11[61]	AstrandJZ18[21], BonfiettiLBM12[62], LombardiBMB11[241], PapaB98[295]
ApplicationAreas	medical	ShinBBHO18[337], WangMD15[391], TopalogluO11[363]	HechingH16[162], DejemeppeD14[93], RendlPHPR12[317]	AkramNHRSA23[7], IsikYA23[185], AbreuN22[89], GeibingerKKMMW21[132], FrimodigS19[120], Novas19[283], abs-1902-01193[8], GedikKEK18[131], BoothNB16[65], DoulabiRP14[102], Simonis07[343]
ApplicationAreas	nurse	GurPAE23[156], abs-1902-01193[8], ShinBBHO18[337], WangMD15[391], RendlPHPR12[317], Simonis07[343], Mason01[258]	OuelletQ22[290], GeibingerKKMMW21[132], GeibingerMM21[135]	PerezGSL23[298], abs-2312-13682[299], FrimodigS19[120], GedikKEK18[131], DoulabiRP14[102], TopalogluO11[363]
ApplicationAreas	offshore		SubulanC22[346]	BoudreaultSLQ22[67]
ApplicationAreas	oven scheduling	LacknerMMWW23[223], LacknerMMWW21[222]		
ApplicationAreas	patient	GurPAE23[156], FrimodigS19[120], ShinBBHO18[337], HechingH16[162], WangMD15[391], DejemeppeD14[93], RendlPHPR12[317], TopalogluO11[363]	GeibingerKKMMW21[132]	MurinR19[272], DoulabiRP14[102], Simonis07[343]
ApplicationAreas	perfect square	BeldiceanuCP08[44]		
ApplicationAreas	physician	GeibingerKKMMW21[132], ShinBBHO18[337]		GurPAE23[156], FrimodigS19[120], WangMD15[391], TopalogluO11[363]

Table 7: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
ApplicationAreas	pipeline	LopesCSM10[245], MouraSCL08[270]	BeniniBGM06[50]	EfthymiouY23[105], PopovicCGNC22[306], HanenKP21[158], LaborieRSV18[221], GilesH16[139], GoelSHFS15[143], SimoninAHL15[341], NovasH10[284], BarlattCG08[31], Wolf03[396], KuchcinskiW03[217], Darby-DowmanLMZ97[86], SimonisC95[344]
ApplicationAreas	radiation therapy	FrimodigS19[120]		
ApplicationAreas	railway	PourDERB18[307], CappartS17[73], Acuna-AgostMFG09[4], MartinPY01[257]	LaborieRSV18[221], Mason01[258]	BogaerdtW19[370], AbrilSB05[3], Wallace96[387]
ApplicationAreas	real time pricing		He0GLW18[160], GrimesIOS14[151]	LimHTB16[233]
ApplicationAreas	rectangle packing	YangSS19[401]		MossigeGSMC17[268], VilimLS15[384], SchuttW10[333], BeldiceanuCP08[44]
ApplicationAreas	robot	IsikYA23[185], LiFJZLL22[230], Armstrong-GOS21[13], KoehlerBFFHPSSS21[204], WessenCS20[393], MurinR19[272], abs-1901-07914[41], LaborieRSV18[221], MossigeGSMC17[268], BoothNB16[65], NovasH14[286], NovasH12[285]	PrataAN23[311], Mehdizadeh-Somarin23[259], OujanaAYB22[291], Astrand0F21[20], WallaceY20[388], WikarekS19[394], VanczaM01[373]	MontemanniD23[267], abs-2305-19888[169], GeitzGSSW22[136], HeinzNVH22[168], MullerMKP22[271], VlkHT21[386], ZhangYW21[410], AstrandJZ20[22], BenediktMH20[48], MengZRZL20[261], Novas19[283], AstrandJZ18[21], ZhangW18[411], ZarandiKS16[406], SimoninAHL15[341], BonfiettiLBM12[62], LimtanyakulS12[236], BonfiettiLBM11[61], ZeballosQH10[408], ZeballosH05[407], CestaOS98[77], BeckDF97[37], Caseau97[75], Wallace96[387]
ApplicationAreas	satellite	SquillaciPR23[345], LaborieRSV18[221], PraletLJ15[310], KelarevaTK13[196], VerfaillieL01[374], BensanaLV99[51]	Laborie09[219], FrankK05[118]	EfthymiouY23[105], Astrand0F21[20], Pralet17[309], SimoninAHL15[341], BessiereHMQW14[53], HeinzSB13[167], SimoninAHL12[340], OddiPCC03[287]
ApplicationAreas	semiconductor	MalapertN19[253], NovasH12[285]	QinWSLS21[313], KroggtLPHJ07[371]	Davenport10[87], ZhangJZL22[409], MullerMKP22[271], abs-2211-14492[347], LacknerMMWW21[222], FanXG21[114], PandeyS21a[293], NattafM20[277], TangB20[351], MengZRZL20[261], Novas19[283], LaborieRSV18[221], KoschB14[207]
ApplicationAreas	ship building			
ApplicationAreas	steel cable			AalianPG23[1]
ApplicationAreas	steel mill	GaySS14[130], HeinzSSW12[165], SchausHMCMD11[325], HententryckM08[172], GarganiR07[124]		PerezGSL23[298], abs-2312-13682[299]
ApplicationAreas	super computer	BartoliniBBLM14[35]		GalleguillosKSB19[123]
ApplicationAreas	torpedo	GoldwaserS17[145], KletzanderM17[203]		
ApplicationAreas	vaccination			
ApplicationAreas	yard crane		QinDCS20[314]	WallaceY20[388]
Industries	aerospace industry			SchildW00[326]
Industries	agricultural industry	WinterMMW22[395]		
Industries	automotive industry		LimtanyakulS12[236]	AntuoriHHEN21[11], BonfiettiZLM16[64], SchildW00[326], Wallace96[387]
Industries	chemical industry		Timpe02[361]	LaborieRSV18[221], GilesH16[139], LombardiM12[244]
Industries	chemical processing industry			GilesH16[139]
Industries	control system industry			BonfiettiZLM16[64]
Industries	electricity industry			PopovicCGNC22[306]
Industries	electronics industry			LacknerMMWW23[223], LacknerMMWW21[222]
Industries	food industry			OujanaAYB22[291], GroleazNS20[153], EscobetPQPRA19[109], HachemiGR11[157], Simonis95[342], SimonisC95[344]
Industries	food processing industry			KlankeBYE21[202], abs-1902-09244[159]

Table 7: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
Industries	manufacturing industry			PrataAN23[311], LacknerMMWW23[223], WinterMMW22[395], LacknerMMWW21[222], FanXG21[114], Mercier-AubinGQ20[262], TangB20[351], EscobetPQPRA19[109], GedikKEK18[131]
Industries	mineral industry			Astrand0F21[20], AstrandJZ20[22]
Industries	mining industry		AalianPG23[1]	abs-2402-00459[278], CampeauG22[72], Astrand0F21[20], AstrandJZ20[22]
Industries	oil industry			LopesCSM10[245]
Industries	packaging industry			ArmstrongGOS21[13]
Industries	petro chemical industry			LaborieRSV18[221], GilesH16[139]
Industries	pharmaceutical industry			YuraszeckMCCR23[405], GeibingerKKMMW21[132], NovaraNH16[282]
Industries	potash industry			Astrand0F21[20], AstrandJZ20[22], AstrandJZ18[21]
Industries	power industry			FrostD98[122]
Industries	process industry		Timpe02[361]	HeinzSSW12[165], Wallace96[387]
Industries	retail industry			ChapadosJR11[78]
Industries	services industry			DoomsH08[101]
Industries	ship repair industry			BoudreaultSLQ22[67]
Industries	steel industry		DavenportKRSH07[88]	KimCMLLP23[201], IsikYA23[185], LacknerMMWW23[223], OujanaAYB22[291], LacknerMMWW21[222], abs-1902-09244[159], GoldwasserS17[145], KletzanderM17[203], HeinzSSW12[165], SchausHMCMD11[325], GrimesH10[148], GarganiR07[124]
Industries	steel making industry			
Industries	textile industry	Mercier-AubinGQ20[262]		BessiereHMQW14[53]
Industries	tourism industry			LiuCGM17[238]

Table 7: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
Benchmarks	benchmark	Bit-Monnot23[55], JuvinHHL23[187], PovedaAA23[308], TardivoDFMP23[353], asselGS23[354], IsikYA23[185], Lackner- MMWW23[223], YuraszeckMCCR23[405], abs-2306-05747[355], BoudreaultSLQ22[67], LiFJZLL22[230], OuelletQ22[290], Winter- MMW22[395], ZhangJZL22[409], AbreuN22[89], MullerMKP22[271], abs-2211-14492[347], GeibingerMM21[135], LacknerMMWW21[222], FanXG21[114], KoehlerBFFHPSSS21[204], PandeyS21a[293], ZhangYW21[410], Wal- laceY20[388], ColT19[83], FrimodigS19[120], abs-1902-09244[159], abs-1911-04766[133], DemirovicS18[95], Laborie18a[220], Ouel- letQ18[289], GedikKEK18[131], La- borieRSV18[221], KreterSS17[216], BurtLPS15[70], KreterSS15[215], Melgare- joLS15[6], VilimLS15[384], BonfiettiLM14[63], cpaior-SchuttFS13[328], HeinzSB13[167], GrimesH11[149], SchuttFSW11[331], Schut- tFSW09[330], WatsonB08[392], Wolf03[396], KuchcinskiW03[217], HeipckeCCS00[170], SakkoutW00[324], BensanaLV99[51], BeckDF97[37]	abs-2402-00459[278], KameugneFND23[192], YuraszeckMC23[404], AkramNHRSA23[7], MontemanniD23a[266], abs-2305-19888[169], OujanaAYB22[291], HeinzNVH22[168], Kovac- sTKSG21[214], GroleazNS20[153], Benedik- tMH20[48], MengZRZL20[261], Sacramen- toSP20[321], GeibingerMM19[134], No- vas19[283], FahimiOQ18[112], BofillCSV17[57], MossigeGSMC17[268], BonfiettiZLM16[64], SchuttS16[332], SzerediS16[350], No- varaNH16[282], DejemeppeCS15[92], Lom- bardiBM15[240], SialaAH15[339], cpaior- GayHS15[129], LetortCB15[229], KoschB14[207], KameugneFSN14[194], LetortCB13[228], OuelletQ13[288], SchuttCSW12[327], LimtanyakulS12[236], ClercqPB11[81], KameugneFSN11[193], KelbelH11[197], GrimesH10[148], GrimesHM09[150], BeldiceanuCP08[44], MonetteDD07[264], HentenryckM04[171], KovacsV04[212], Vil- imBC04[382], DannaP03[85], OddiPCC03[287], Zhou97[414]	PrataAN23[311], EfthymiouY23[105], Kim- CMLLP23[201], SquillaciPR23[345], Mon- temanniD23[267], ArmstrongGOS22[14], PohlAK22[304], SubulanC22[346], Arm- strongGOS21[13], AstrandOF21[20], Klanke- BYE21[202], HubnerGSV21[183], VlkHT21[386], NattafM20[277], AstrandJZ20[22], Lu- nardiBLRV20[248], QinDCS20[314], Bo- gaerdtW19[370], MalapertN19[253], Mur- inR19[272], abs-1901-07914[41], Kameugne- FGOQ18[191], PourDERB18[307], ZhangW18[411], GelainPRVW17[137], Hooker17[180], Pralet17[309], YoungFS17[402], CauwelaertDMS16[76], FontaineMH16[116], Madi-WambaB16[250], GayHLS15[127], LimBTBB15[234], Siala15[338], Ale- sioNBG14[99], BessiereHMQW14[53], Der- rienPZ14[98], NovasH14[286], GuSS13[155], SchuttFS13[329], BonfiettiLBM12[62], LetortBC12[227], RendlPHPR12[317], Ser- raNM12[334], LombardiM12[244], Bonfi- ettiLBM11[61], LahimerLH11[224], Lom- bardiBMB11[241], Vilim11[381], KovacsB11[209], SchausHMCMD11[325], LombardiM10[243], SchuttW10[333], LopesCSM10[245], Ze- ballosQH10[408], Laborie09[219], Garri- doAO09[125], LauLN08[225], LiessM08[231], KovacsV06[213], KhayatLR06[199], FrankK05[118], Vilim05[378], WuBB05[400], Vil- imBC05[383], ArtiguesBF04[16], Vilim04[377], BeldiceanuC02[42], KamarainenS02[189], Baptis- teP00[29], RodosekW98[319], PapaB98[295], BaptisteP97[28], Caseau97[75], Darby- DowmanLMZ97[86], Goltz95[146], Puget95[312], He0GLW18[160], CappartS17[73], Cauwe- laertDMS16[76], DejemeppeCS15[92], GayHLS15[127], GayHS15[128], cpaior- GayHS15[129], DejemeppeD14[93], Hound- jiSWD14[182]
Benchmarks	bitbucket		TardivoDFMP23[353]	
Benchmarks	bitlab			
Benchmarks	generated instance	IsikYA23[185], abs-1911-04766[133]	PerezGSL23[298], abs-2312-13682[299], Madi- WambaB16[250], KelbelH11[197], SchausHM- CMD11[325]	abs-2402-00459[278], EfthymiouY23[105], abs-2305-19888[169], BoudreaultSLQ22[67], HeinzNVH22[168], abs-2211-14492[347], AstrandOF21[20], GeibingerMM21[135], HanenKP21[158], AbohashimaEG21[2], BenediktMH20[48], LunardiBLRV20[248], GeibingerMM19[134], MalapertN19[253], YangSS19[401], BenediktSMVH18[49], PourDERB18[307], GoldwasserS17[145], MossigeGSMC17[268], BonfiettiZLM16[64], DejemeppeCS15[92], LetortCB15[229], NattafAL15[275], HoundjiSWD14[182], Lim- tanyakulS12[236], BonfiettiLBM11[61], Ko- vacsV06[213], ArtiouchineB05[18], LimRX04[232]

Table 7: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
Benchmarks	github	KoehlerBFFHPSSS21[204]	PovedaAA23[308], BoudreaultSLQ22[67], LunardiBLRV20[248]	TardivoDFMP23[353], BenediktMH20[48], abs-2402-00459[278], JuvinHHL23[187], YuraszeckMC23[404], YuraszeckMCCR23[405], GeitzGSSW22[136], MullerMKP22[271], KovacsTKSG21[214], VlkHT21[386], MurinR19[272], 1911-04766[133], ShinBBHO18[337], uCGM17[238], ZLM16[64], SialaAH15[339]

Table 7: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
Benchmarks	http://	YuraszeckMC23[404], IsikYA23[185], HeinzNVH22[168], He0GLW18[160], Li- uCGM17[238], VilimLS15[384], BofilLEG- PSV14[58], GrimesIOS14[151], Schut- tFSW11[331], GarridoAO09[125], Mason01[258]	KameugneFND23[192], WessenCS20[393], DemirovicS18[95], GedikKEK18[131], La- borieRSV18[221], PourDERB18[307], ShinBBHO18[337], BofilCSV17[57], LimHTB16[233], NovaraNH16[282], Bofil- GSV15[59], BurtLPS15[70], LimBTBB15[234], MurphyMB15[273], SialaAH15[339], LetortCB15[229], WangMD15[391], Bar- toliniBBLM14[35], KameugneFSN14[194], KelarevaTK13[196], LetortCB13[228], cpaior-SchuttFS13[328], IfrimOS12[184], LetortBC12[227], SerraNM12[334], Vilim05[378], VanczaM01[373], HeipckeCCS00[170], Ben- sanaLV99[51], Darby-DowmanLMZ97[86]	PrataAN23[311], abs-2402-00459[278], Juv- HHL23[187], WangB23[390], Caballero23[71], LacknerMMWW23[223], MontemanniD23a[266], abs-2305-19888[169], GeitzGSSW22[136], AbreuN22[89], PohlAK22[304], Antuori- HHEN21[11], GeibingerKKMMW21[132], KovacsTKSG21[214], HubnerGSV21[183], KoehlerBFFHPSSS21[204], VlkHT21[386], Mercier-AubinGQ20[262], NattafM20[277], WangB20[389], AstrandJZ20[22], Wal- laceY20[388], BogaerdtW19[370], ColT19[83], GalleguillosKSB19[123], GeibingerMM19[134], MalapertN19[253], EscobetPQPRA19[109], abs- 1901-07914[41], abs-1911-04766[133], Kameugne- FGOQ18[191], Laborie18a[220], ZhangW18[411], GelainPRVW17[137], GoldwaserS17[145], KletzanderM17[203], MossigeGSMC17[268], Pralet17[309], YoungFS17[402], KreterSS17[216], NattafAL17[276], CauwelaertDMS16[76], Madi-WambaB16[250], SchuttS16[332], SzerediS16[350], Tesch16[358], Deje- meppeCS15[92], EvenSH15[110], GayHS15[128], KreterSS15[215], MelgarejoLS15[6], PesantRR15[300], EvenSH15a[111], GoelSHFS15[143], Kameugne15[190], NattafAL15[275], Siala15[338], AlesioNBG14[99], BessiereHMqw14[53], BonfiettiLM14[63], DerrienPZ14[98], HoundjiSWD14[182], NovasH14[286], OuelletQ13[288], Schut- tFS13[329], HeinzSB13[167], OzturkTHO13[292], BonfiettiLBM12[62], RendlPHPR12[317], SchuttCSW12[327], HeinzSSW12[165], Lim- tanyakulS12[236], BonfiettiLBM11[61], ClercqPB11[81], GrimesH11[149], Her- menierDL11[173], KameugneFSN11[193], LahimerLH11[224], Vilim11[381], Bar- takS11[34], KelbelH11[197], KovacsK11[211], SchausHMCMD11[325], TopalogluO11[363], BertholdHLM10[52], LopesCSM10[245], No- vasH10[284], ZeballosQH10[408], Laborie09[219], SchuttFSW09[330], Vilim09[379], Garri- doOS08[126], LiessM08[231], GarganiR07[124], KeriK07[198], Hooker06[179], KhayatLR06[199], AbrilSB05[3], ArtiouchineB05[18], Dilk- inaDH05[100], FortinZDF05[117], Vil- imBC05[383], ZeballosH05[407], KovacsV04[212], Vilim04[377], VilimBC04[382], Odd- iPCC03[287], Bartak02[33], HookerY02[181], KamarainenS02[189], Muscettola02[274], Timpe02[361], VerfaillieL01[374], Baptis- teP00[29], SakkoutW00[324], SchildW00[326], PapaB98[295], Wallace96[387]

Table 7: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
Benchmarks	https://	EfthymiouY23[105], PovedaAA23[308], TardivoDFMP23[353], GurPAE23[156], IsikYA23[185], MontemanniD23[267], abs-2305- 19888[169], ArmstrongGOS22[14], Boudreault- SLQ22[67], GeitzGSSW22[136], OuelletQ22[290], CampeauG22[72], HeinzNVH22[168], MullerMKP22[271], AstrandOF21[20], GeibingerKKMMW21[132], HanenKP21[158], HillTV21[174], KlankeBYE21[202], Hubn- erGSV21[183], KoehlerBFFHPSSS21[204], GroleazNS20[153], Mercier-AubinGQ20[262], NattafM20[277], WessenCS20[393], Benedik- tMH20[48], LunardiBLRV20[248], Bo- gaerdtW19[370], ColT19[83], Galleguil- losKSB19[123], GeibingerMM19[134], MalapertN19[253], MurinR19[272], YangSS19[401], DemirovicS18[95], KameugneF- GOQ18[191], Laborie18a[220], OuelletQ18[289], Tesch18[359]	abs-2402-00459[278], KameugneFND23[192], KimCMLLP23[201], Mehdizadeh- Somarin23[259], SquillaciPR23[345], YuraszeckMC23[404], AkramNHRSA23[7], LacknerMMWW23[223], MontemanniD23a[266], YuraszeckMCCR23[405], WinterMMW22[395], AbreuN22[89], PohlAK22[304], Subu- lanC22[346], KovacsTKSG21[214], TangB20[351], SacramentoSP20[321], WallaceY20[388], FrimodigS19[120], abs-1911-04766[133], AstrandJZ18[21], BenediktSMVH18[49], He0GLW18[160], GedikKEK18[131], Li- uCGM17[238], YoungFS17[402]	PrataAN23[311], Bit-Monnot23[55], Juvin- HHL23[187], JuvinHL23[188], asse1GS23[354], Caballero23[71], abs-2306-05747[355], Ou- janaAYB22[291], PopovicCGNC22[306], abs- 2211-14492[347], AntuoriHHEN21[11], Arm- strongGOS21[13], LacknerMMWW21[222], AbohashimaEG21[2], FanXG21[114], PandeyS21a[293], QinWSLS21[313], VlkHT21[386], ZhangYW21[410], WangB20[389], AstrandJZ20[22], MengZRZL20[261], QinDCS20[314], EscobetPQPRA19[109], Novas19[283], abs-1901-07914[41], abs- 1902-09244[159], FahimiOQ18[112], La- borieRSV18[221], ShinBBHO18[337], Cap- partS17[73], GoldwaserS17[145], Bonfi- ettiZLM16[64], CauwelaertDMS16[76], FontaineMH16[116], Madi-WambaB16[250], DejemeppeCS15[92], GayHS15[128], cpaio- rGayHS15[129], WangMD15[391], Deje- meppeD14[93], HoundjiSWD14[182]
Benchmarks	industrial instance		BonfiettiZLM16[64]	EfthymiouY23[105], PovedaAA23[308], asse1GS23[354], abs-2306-05747[355], OujanaAYB22[291], GroleazNS20[153], Mercier-AubinGQ20[262], NattafM20[277], MalapertN19[253], BofilIGSV15[59], Bofil- IEGPSV14[58], BonfiettiLBM11[61], Lom- bard1BMB11[241]
Benchmarks	industrial partner	BoudreaultSLQ22[67]	LacknerMMWW23[223], ArmstrongGOS21[13]	WinterMMW22[395], LacknerMMWW21[222], VlkHT21[386], Mercier-AubinGQ20[262], GeibingerMM19[134], abs-1911-04766[133], MossigeGSMC17[268], LimtanyakulS12[236], KovacsV06[213], KovacsV04[212]
Benchmarks	industry partner	BurtLPS15[70]		WinterMMW22[395], ArmstrongGOS21[13], abs- 1902-09244[159]
Benchmarks	instance generator	LacknerMMWW23[223], LacknerMMWW21[222]		abs-2402-00459[278], ArmstrongGOS21[13], abs-1911-04766[133], GoldwaserS17[145], YoungFS17[402], LombardiM09[242], Heipck- eCCS00[170]
Benchmarks	random instance	LacknerMMWW21[222], WallaceY20[388]	EfthymiouY23[105], WangB23[390], Lack- nerMMWW23[223], LetortCB15[229], Kel- belH11[197]	Mehdizadeh-Somarin23[259], OuelletQ22[290], MullerMKP22[271], abs-2211-14492[347], HanenKP21[158], KlankeBYE21[202], VlkHT21[386], BenediktMH20[48], Lu- nardiBLRV20[248], BenediktSMVH18[49], FahimiOQ18[112], CappartS17[73], Hooker17[180], MossigeGSMC17[268], Madi-WambaB16[250], DerrienP14[97], DerrienPZ14[98], KameugneFSN14[194], LetortCB13[228], BillautHL12[54], LetortBC12[227], LimtanyakulS12[236], BartakS11[34], Hooker06[179], Artiouch- ineB05[18], Hooker05[177], Hooker04[176], BeldiceanuC02[42]

Table 7: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
Benchmarks	real life	GurPAE23[156], WinterMMW22[395], SubulanC22[346], HubnerGSV21[183], QinDCS20[314], WangMD15[391], Mart-inPY01[257]	LacknerMMWW23[223], OujanaAYB22[291], Astrand0F21[20], KlankeBYE21[202], Lack-nerMMWW21[222], abs-1911-04766[133], PourDERB18[307], GaySS14[130], Lim-tanyakulS12[236], Tsang03[367], SimonisC95[344]	PrataAN23[311], EftymiouY23[105], PovedaAA23[308], IsikYA23[185], BoudreaultSLQ22[67], GeitzGSSW22[136], CampeauG22[72], GeibingerMM21[135], AstrandJZ20[22], SacramentoSP20[321], WallaceY20[388], GeibingerMM19[134], MurinR19[272], Laborie18a[220], Cap-partS17[73], GelainPRVW17[137], Cauwelaert-DMS16[76], EvenSH15[110], EvenSH15a[111], BessiereHMQW14[53], GrimesIOS14[151], OzturkTHO13[292], IfrimOS12[184], LombardiBMB11[241], BartakS11[34], TopalogluO11[363], GarganiR07[124], BeniniBGM06[50], KhayatLR06[199], Ko-vacsEKV05[210], VilimBC05[383], Ko-vacsV04[212], VilimBC04[382], Bartak02[33], BeldiceanuC02[42], VanczaM01[373], Bel-hadjil98[46], Darby-DowmanLMZ97[86], Touraivane95[365]
Benchmarks	real world	abs-2305-19888[169], HeinzNVH22[168], GeibingerMM21[135], KoehlerBFFH-PSSS21[204], GeibingerMM19[134], abs-1902-09244[159], abs-1911-04766[133], EvenSH15[110], MelgarejoLS15[6], EvenSH15a[111], RendIPHPR12[317]	PrataAN23[311], AalianPG23[1], WangB23[390], asselGS23[354], IsikYA23[185], YuraszeckM-CCR23[405], abs-2306-05747[355], Ou-janaAYB22[291], MullerMKP22[271], Armstrong-GOS21[13], TangB20[351], WessenCS20[393], AstrandJZ20[22], WallaceY20[388], FrimodigS19[120], LaborieRSV18[221], Pour-DERB18[307], ShinBBHO18[337], Bon-fiettiZLM16[64], HechingH16[162], Mur-phyMB15[273], KelarevaTK13[196], Ozturk-THO13[292], LombardiM12[244], BartakS11[34], LopesCSM10[245]	abs-2402-00459[278], Bit-Monnot23[55], JuvinHL23[188], KimCMLLP23[201], PerezGSL23[298], PovedaAA23[308], Tardi-voDFMP23[353], abs-2312-13682[299], Arm-strongGOS22[14], BoudreaultSLQ22[67], GeitzGSSW22[136], AbreuN22[89], CampeauG22[72], PohlAK22[304], SubulanC22[346], Astrand0F21[20], GeibingerKKMMW21[132], HillTV21[174], KovacsTKSG21[214], AbohashimaEG21[2], SacramentoSP20[321], ColT19[83], abs-1901-07914[41], DemirovicS18[95], He0GLW18[160], KameugneFGOQ18[191], Laborie18a[220], MossigeGSMC17[268], NattafAL17[276], BoothNB16[65], LimHTB16[233], Madi-WambaB16[250], ZarandiKS16[406], BurtLPS15[70], DejemeppeCS15[92], Lom-bardiBM15[240], cpaior-GayHS15[129], WangMD15[391], BonfiettiLM14[63], Der-rienPZ14[98], GrimesIOS14[151], Ser-raNM12[334], HeinzSSW12[165], Schut-tFSW11[331], LombardiM10[243], Ze-ballosQH10[408], Laborie09[219], Lom-bardiM09[242], SchuttFSW09[330], Bar-lattCG08[31], LauLN08[225], WatsonB08[392], GarridoOS08[126], KrogtLPHJ07[371], Khem-moudjPB06[200], KamarainenS02[189], VanczaM01[373], SakkoutW00[324], BeckDF97[37], Darby-DowmanLMZ97[86]
Benchmarks	supplementary material		MontemanniD23[267]	JuvinHHL23[187], asselGS23[354], abs-2306-05747[355], BoudreaultSLQ22[67], Winter-MMW22[395], AntuoriHHEN21[11], Armstrong-GOS21[13], KovacsTKSG21[214], Lackner-MMWW21[222], MengZRZL20[261]
Benchmarks	zenodo	LacknerMMWW23[223], SacramentoSP20[321]		KimCMLLP23[201], WinterMMW22[395], Arm-strongGOS21[13]
Algorithms	bi partite matching			Simonis07[343], Kumar03[218]

Table 7: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
Algorithms	edge finder	KameugneFND23[192], BaptisteP00[29]	KameugneFSN14[194], OuelletQ13[288], KelbelH11[197], PapaB98[295]	BonfiettiZLM16[64], SchuttFSW11[331], SakkoutW00[324], BaptisteP97[28], Zhou97[414]
Algorithms	edge finding	JuvinHHL23[187], TardivoDFMP23[353], YangSS19[401], KreterSS17[216], Kameugne15[190], OuelletQ13[288], ClercqPBJ11[81], Vilim11[381], ArtiouchineB05[18], VilimBC05[383], PapaB98[295], BaptisteP97[28], BeckDF97[37]	KameugneFND23[192], OuelletQ22[290], FahimiOQ18[112], cpaior-GayHS15[129], KameugneFSN14[194], cpaior-SchuttFS13[328], KameugneFSN11[193], Vilim09[379], Hooker05[177], VilimBC04[382], BaptisteP00[29], BeckDF97[37]	BoudreaultSLQ22[67], Tesch18[359], LaborieRSV18[221], CauwelaertDMS16[76], DejemeppeCS15[92], LetortCB15[229], LetortCB13[228], LombardiM12[244], LiessM08[231], MonetteDD07[264], Vilim04[377], Bartak02[33], Zhou97[414]
Algorithms	energetic reasoning	OuelletQ22[290], HananKP21[158], OuelletQ18[289], Tesch18[359], NattafAL17[276], Tesch16[358], cpaior-GayHS15[129], NattafAL15[275], DerrienP14[97], cpaior-SchuttFS13[328], LimtanyakulS12[236], Vilim11[381]	KameugneFND23[192], KameugneFGOQ18[191], SchuttFS13[329]	TardivoDFMP23[353], IsikYA23[185], BoudreaultSLQ22[67], Armstrong-GOS21[13], YangSS19[401], Laborie18a[220], BofillCSV17[57], KameugneFSN14[194], LetortCB13[228], OuelletQ13[288], LombardiM12[244], ClercqPBJ11[81], LahimerLH11[224], Vilim09[379], cpaior-Vilim09[380], BaptisteP00[29], PapaB98[295], FanXG21[114], Kumar03[218]
Algorithms	max flow		LopesCSM10[245], MouraSCL08[270], Muscettola02[274]	
Algorithms	maximum matching		Kumar03[218]	
Algorithms	not first	KameugneFND23[192], FahimiOQ18[112], cpaior-GayHS15[129], SchuttFSW11[331], ArtiouchineB05[18], VilimBC05[383]	KameugneFGOQ18[191], TardivoDFMP23[353], DejemeppeCS15[92], Kameugne15[190], KameugneFSN14[194], OuelletQ13[288], SchuttW10[333], MonetteDD07[264], VilimBC04[382], Wolf03[396]	JuvinHHL23[187], BoudreaultSLQ22[67], OuelletQ22[290], CauwelaertDMS16[76], Tesch16[358], LimtanyakulS12[236], KameugneFSN11[193], Vilim09[379]
Algorithms	not last	KameugneFND23[192], TardivoDFMP23[353], KameugneFGOQ18[191], OuelletQ18[289], FahimiOQ18[112], cpaior-GayHS15[129], SchuttW10[333], ArtiouchineB05[18], Vilim05[378], VilimBC05[383], Vilim04[377], Wolf03[396]	Tesch18[359], Kameugne15[190], KameugneFSN14[194], OuelletQ13[288], cpaior-SchuttFS13[328], KameugneFSN11[193], Vilim11[381], SchuttFSW11[331], MonetteDD07[264], VilimBC04[382]	JuvinHHL23[187], BoudreaultSLQ22[67], GeitzGSSW22[136], OuelletQ22[290], YangSS19[401], CauwelaertDMS16[76], Tesch16[358], LimtanyakulS12[236], GrimesHM09[150], Vilim09[379], cpaior-Vilim09[380], Vilim03[376]
Algorithms	sweep	Tesch18[359], Tesch16[358], GayHS15[128], LetortCB15[229], NattafAL15[275], SimoninAHL15[341], DerrienPZ14[98], LetortCB13[228], LetortBC12[227], SimoninAHL12[340], ClercqPBJ11[81], BeldiceanuP07[45], Wolf03[396], BeldiceanuC02[42]	BonfiettiZLM16[64], FahimiOQ18[112], cpaior-GayHS15[129]	KameugneFND23[192], TardivoDFMP23[353], GeitzGSSW22[136], OuelletQ22[290], KameugneFGOQ18[191], EvenSH15[110], EvenSH15a[111], DerrienP14[97], GaySS14[130], OuelletQ13[288], Vilim11[381], BeldiceanuCP08[44], Simonis07[343], VilimBC05[383], Vilim04[377]

Table 7: Papers by Domain and Keyword

Domain	Keyword	High	Medium	Low
Algorithms	time tabling	TardivoDFMP23[353], OuelletQ22[290], DemirovicS18[95], FahimiOQ18[112], cpaio- GayHS15[129], OuelletQ13[288], Wallace96[387]	WallaceY20[388], abs-1902-01193[8], Ouel- letQ18[289], Tesch18[359], BofilGSV15[59], GayHS15[128], Vilim11[381], Bartak02[33]	PrataAN23[311], KameugneFND23[192], Lack- nerMMWW23[223], GeibingerMM21[135], GeibingerMM19[134], abs-1911- 04766[133], AstrandJZ18[21], KameugneF- GOQ18[191], YoungFS17[402], Tesch16[358], ZarandiKS16[406], GayHLS15[127], LimBTBB15[234], VilimLS15[384], WangMD15[391], BofilEGPSV14[58], KameugneFSN14[194], GuSS13[155], Schut- tFS13[329], HeinzSB13[167], Bonfiet- tiLBM12[62], ChapadosJR11[78], Cler- cqPBJ11[81], KameugneFSN11[193], TopalogluO11[363], GrimesH10[148], Simo- nis07[343], Tsang03[367], SchildW00[326]

5 Examples from Books and Courses

6 Benchmark Sets

6.1 CSPLib

Table 8: CSPLib scheduling problems

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

7 Other Examples

References

- [1] Younes Aalian, Gilles Pesant, and Michel Gamache. Optimization of short-term underground mine planning using constraint programming. In Roland H. C. Yap, editor, *29th International Conference on Principles and Practice of Constraint Programming, CP 2023, August 27-31, 2023, Toronto, Canada*, volume 280 of *LIPICs*, pages 6:1–6:16. Schloss Dagstuhl - Leibniz-Zentrum für Informatik, 2023. URL: <https://doi.org/10.4230/LIPICs.CP.2023.6>, doi:10.4230/LIPICs.CP.2023.6.
- [2] Hanaa Abohashima, Amr B. Eltawil, and Mohamed S. Gheith. A mathematical programming model and a firefly-based heuristic for real-time traffic signal scheduling with physical constraints. *IEEE Access*, 9:128314–128327, 2021. doi:10.1109/ACCESS.2021.3112600.
- [3] Montserrat Abril, Miguel A. Salido, and Federico Barber. Distributed constraints for large-scale scheduling problems. In Peter van Beek, editor, *Principles and Practice of Constraint Programming - CP 2005, 11th International Conference, CP 2005, Sitges, Spain, October 1-5, 2005, Proceedings*, volume 3709 of *Lecture Notes in Computer Science*, page 837. Springer, 2005. doi:10.1007/11564751_75.
- [4] Rodrigo Acuna-Agost, Philippe Michelon, Dominique Feillet, and Serigne Gueye. Constraint programming and mixed integer linear programming for rescheduling trains under disrupted operations. In Willem Jan van Hoes and John N. Hooker, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, 6th International Conference, CPAIOR 2009, Pittsburgh, PA, USA, May 27-31, 2009, Proceedings*, volume 5547 of *Lecture Notes in Computer Science*, pages 312–313. Springer, 2009. doi:10.1007/978-3-642-01929-6_24.
- [5] Abderrahmane Aggoun and Nicolas Beldiceanu. Extending CHIP in order to solve complex scheduling and placement problems. In Jean-Paul Delahaye, Philippe Devienne, Philippe Mathieu, and Pascal Yim, editors, *JFPL'92, 1^{ères} Journées Francophones de Programmation Logique, 25-27 Mai 1992, Lille, France*, page 51, 1992.
- [6] Penélope Aguiar-Melgarejo, Philippe Laborie, and Christine Solnon. A time-dependent no-overlap constraint: Application to urban delivery problems. In Laurent Michel, editor, *Integration of AI and OR Techniques in Constraint Programming - 12th International Conference, CPAIOR 2015, Barcelona, Spain, May 18-22, 2015, Proceedings*, volume 9075 of *Lecture Notes in Computer Science*, pages 1–17. Springer, 2015. doi:10.1007/978-3-319-18008-3_1.
- [7] Bilal Omar Akram, Nor Kamariah Noordin, Fazirulhisyam Hashim, Mohd Fadlee A. Rasid, Mustafa Ismael Salman, and Abdulrahman M. Abdulghani. Joint scheduling and routing optimization for deterministic hybrid traffic in time-sensitive networks using constraint programming. *IEEE Access*, 11:142764–142779, 2023. doi:10.1109/ACCESS.2023.3343409.
- [8] O. M. Alade and A. O. Amusat. Solving nurse scheduling problem using constraint programming technique. *CoRR*, abs/1902.01193, 2019. URL: <http://arxiv.org/abs/1902.01193>, arXiv:1902.01193.
- [9] Samira Alizdeh and Shahram Saeidi. Fuzzy project scheduling with critical path including risk and resource constraints using linear programming. *Int. J. Adv. Intell. Paradigms*, 16(1):4–17, 2020. doi:10.1504/IJAIP.2020.106687.
- [10] Ola Angelsmark and Peter Jonsson. Some observations on durations, scheduling and allen’s algebra. In Rina Dechter, editor, *Principles and Practice of Constraint Programming - CP 2000, 6th International Conference, Singapore, September 18-21, 2000, Proceedings*, volume 1894 of *Lecture Notes in Computer Science*, pages 484–488. Springer, 2000. doi:10.1007/3-540-45349-0_35.
- [11] Valentin Antuori, Emmanuel Hebrard, Marie-José Huguet, Siham Essodaigui, and Alain Nguyen. Combining monte carlo tree search and depth first search methods for a car manufacturing workshop scheduling problem. In Laurent D. Michel, editor, *27th International Conference on Principles and Practice of Constraint Programming, CP 2021, Montpellier, France (Virtual Conference), October 25-29, 2021*, volume 210 of *LIPICs*, pages 14:1–14:16. Schloss Dagstuhl - Leibniz-Zentrum für Informatik, 2021. URL: <https://doi.org/10.4230/LIPICs.CP.2021.14>, doi:10.4230/LIPICs.CP.2021.14.

- [12] Taha Arbaoui and Farouk Yalaoui. Solving the unrelated parallel machine scheduling problem with additional resources using constraint programming. In Ngoc Thanh Nguyen, Duong Hung Hoang, Tzung-Pei Hong, Hoang Pham, and Bogdan Trawinski, editors, *Intelligent Information and Database Systems - 10th Asian Conference, ACIIDS 2018, Dong Hoi City, Vietnam, March 19-21, 2018, Proceedings, Part II*, volume 10752 of *Lecture Notes in Computer Science*, pages 716–725. Springer, 2018. doi:10.1007/978-3-319-75420-8_67.
- [13] Eddie Armstrong, Michele Garraffa, Barry O’Sullivan, and Helmut Simonis. The hybrid flexible flowshop with transportation times. In Laurent D. Michel, editor, *27th International Conference on Principles and Practice of Constraint Programming, CP 2021, Montpellier, France (Virtual Conference), October 25-29, 2021*, volume 210 of *LIPICs*, pages 16:1–16:18. Schloss Dagstuhl - Leibniz-Zentrum für Informatik, 2021. URL: <https://doi.org/10.4230/LIPICs.CP.2021.16>, doi:10.4230/LIPICs.CP.2021.16.
- [14] Eddie Armstrong, Michele Garraffa, Barry O’Sullivan, and Helmut Simonis. A two-phase hybrid approach for the hybrid flexible flowshop with transportation times. In Pierre Schaus, editor, *Integration of Constraint Programming, Artificial Intelligence, and Operations Research - 19th International Conference, CPAIOR 2022, Los Angeles, CA, USA, June 20-23, 2022, Proceedings*, volume 13292 of *Lecture Notes in Computer Science*, pages 1–13. Springer, 2022. doi:10.1007/978-3-031-08011-1_1.
- [15] Martin Aronsson, Markus Bohlin, and Per Kreuger. MILP formulations of cumulative constraints for railway scheduling - A comparative study. In Jens Clausen and Gabriele Di Stefano, editors, *ATMOS 2009 - 9th Workshop on Algorithmic Approaches for Transportation Modeling, Optimization, and Systems, IT University of Copenhagen, Denmark, September 10, 2009*, volume 12 of *OASICS*. Schloss Dagstuhl - Leibniz-Zentrum fuer Informatik, Germany, 2009. URL: <http://drops.dagstuhl.de/opus/volltexte/2009/2141>.
- [16] Christian Artigues, Sana Belmokhtar, and Dominique Feillet. A new exact solution algorithm for the job shop problem with sequence-dependent setup times. In Jean-Charles Régin and Michel Rueher, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, First International Conference, CPAIOR 2004, Nice, France, April 20-22, 2004, Proceedings*, volume 3011 of *Lecture Notes in Computer Science*, pages 37–49. Springer, 2004. doi:10.1007/978-3-540-24664-0_3.
- [17] Christian Artigues and François Roubellat. A polynomial activity insertion algorithm in a multi-resource schedule with cumulative constraints and multiple modes. *Eur. J. Oper. Res.*, 127(2):297–316, 2000. doi:10.1016/S0377-2217(99)00496-8.
- [18] Konstantin Artiouchine and Philippe Baptiste. Inter-distance constraint: An extension of the all-different constraint for scheduling equal length jobs. In Peter van Beek, editor, *Principles and Practice of Constraint Programming - CP 2005, 11th International Conference, CP 2005, Sitges, Spain, October 1-5, 2005, Proceedings*, volume 3709 of *Lecture Notes in Computer Science*, pages 62–76. Springer, 2005. doi:10.1007/11564751_8.
- [19] Max Åstrand. *Short-term Underground Mine Scheduling: An Industrial Application of Constraint Programming*. PhD thesis, Royal Institute of Technology, Stockholm, Sweden, 2021. URL: <https://nbn-resolving.org/urn:nbn:se:kth:diva-294959>.
- [20] Max Åstrand, Mikael Johansson, and Hamid Reza Feyzmahdavian. Short-term scheduling of production fleets in underground mines using cp-based LNS. In Peter J. Stuckey, editor, *Integration of Constraint Programming, Artificial Intelligence, and Operations Research - 18th International Conference, CPAIOR 2021, Vienna, Austria, July 5-8, 2021, Proceedings*, volume 12735 of *Lecture Notes in Computer Science*, pages 365–382. Springer, 2021. doi:10.1007/978-3-030-78230-6_23.
- [21] Max Åstrand, Mikael Johansson, and Alessandro Zanarini. Fleet scheduling in underground mines using constraint programming. In Willem Jan van Hoeve, editor, *Integration of Constraint Programming, Artificial Intelligence, and Operations Research - 15th International Conference, CPAIOR 2018, Delft, The Netherlands, June 26-29, 2018, Proceedings*, volume 10848 of *Lecture Notes in Computer Science*, pages 605–613. Springer, 2018. doi:10.1007/978-3-319-93031-2_44.

- [22] Max Åstrand, Mikael Johansson, and Alessandro Zanarini. Underground mine scheduling of mobile machines using constraint programming and large neighborhood search. *Comput. Oper. Res.*, 123:105036, 2020. URL: <https://doi.org/10.1016/j.cor.2020.105036>, doi:10.1016/J.COR.2020.105036.
- [23] Amelia Badica, Costin Badica, and Mirjana Ivanovic. Block structured scheduling using constraint logic programming. *AI Commun.*, 33(1):41–57, 2020. doi:10.3233/AIC-200650.
- [24] Amelia Badica, Costin Badica, Mirjana Ivanovic, and Doina Logofatu. Exploring the space of block structured scheduling processes using constraint logic programming. In Igor V. Kotenko, Costin Badica, Vasily Desnitsky, Didier El Baz, and Mirjana Ivanovic, editors, *Intelligent Distributed Computing XIII, 13th International Symposium on Intelligent Distributed Computing, IDC 2019, St. Petersburg, Russia, 7-9 October, 2019*, volume 868 of *Studies in Computational Intelligence*, pages 149–159. Springer, 2019. doi:10.1007/978-3-030-32258-8_17.
- [25] Philippe Baptiste. Constraint-based schedulers, do they really work? In Ian P. Gent, editor, *Principles and Practice of Constraint Programming - CP 2009, 15th International Conference, CP 2009, Lisbon, Portugal, September 20-24, 2009, Proceedings*, volume 5732 of *Lecture Notes in Computer Science*, page 1. Springer, 2009. doi:10.1007/978-3-642-04244-7_1.
- [26] Philippe Baptiste and Nicolas Bonifas. Redundant cumulative constraints to compute preemptive bounds. *Discret. Appl. Math.*, 234:168–177, 2018. URL: <https://doi.org/10.1016/j.dam.2017.05.001>, doi:10.1016/J.DAM.2017.05.001.
- [27] Philippe Baptiste, Philippe Laborie, Claude Le Pape, and Wim Nuijten. Constraint-based scheduling and planning. In Francesca Rossi, Peter van Beek, and Toby Walsh, editors, *Handbook of Constraint Programming*, volume 2 of *Foundations of Artificial Intelligence*, pages 761–799. Elsevier, 2006. doi:10.1016/S1574-6526(06)80026-X.
- [28] Philippe Baptiste and Claude Le Pape. Constraint propagation and decomposition techniques for highly disjunctive and highly cumulative project scheduling problems. In Gert Smolka, editor, *Principles and Practice of Constraint Programming - CP97, Third International Conference, Linz, Austria, October 29 - November 1, 1997, Proceedings*, volume 1330 of *Lecture Notes in Computer Science*, pages 375–389. Springer, 1997. URL: <https://doi.org/10.1007/BFb0017454>, doi:10.1007/BFB0017454.
- [29] Philippe Baptiste and Claude Le Pape. Constraint propagation and decomposition techniques for highly disjunctive and highly cumulative project scheduling problems. *Constraints An Int. J.*, 5(1/2):119–139, 2000. doi:10.1023/A:1009822502231.
- [30] Pierre Baptiste, Bruno Legeard, and Christophe Varnier. Hoist scheduling problem: an approach based on constraint logic programming. In *Proceedings of the 1992 IEEE International Conference on Robotics and Automation, Nice, France, May 12-14, 1992*, pages 1139–1144. IEEE Computer Society, 1992. doi:10.1109/ROBOT.1992.220195.
- [31] Ada Barlatt, Amy Mainville Cohn, and Oleg Yu. Gusikhin. A hybrid approach for solving shift-selection and task-sequencing problems. In Laurent Perron and Michael A. Trick, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, 5th International Conference, CPAIOR 2008, Paris, France, May 20-23, 2008, Proceedings*, volume 5015 of *Lecture Notes in Computer Science*, pages 288–292. Springer, 2008. doi:10.1007/978-3-540-68155-7_24.
- [32] Roman Barták. Visopt shopfloor: Going beyond traditional scheduling. In Barry O’Sullivan, editor, *Recent Advances in Constraints, Joint ERCIM/CologNet International Workshop on Constraint Solving and Constraint Logic Programming, Cork, Ireland, June 19-21, 2002. Selected Papers*, volume 2627 of *Lecture Notes in Computer Science*, pages 185–199. Springer, 2002. doi:10.1007/3-540-36607-5_14.

- [33] Roman Barták. Visopt shopfloor: On the edge of planning and scheduling. In Pascal Van Hentenryck, editor, *Principles and Practice of Constraint Programming - CP 2002, 8th International Conference, CP 2002, Ithaca, NY, USA, September 9-13, 2002, Proceedings*, volume 2470 of *Lecture Notes in Computer Science*, pages 587–602. Springer, 2002. doi:10.1007/3-540-46135-3_39.
- [34] Roman Barták and Miguel A. Salido. Constraint satisfaction for planning and scheduling problems. *Constraints An Int. J.*, 16(3):223–227, 2011. URL: <https://doi.org/10.1007/s10601-011-9109-4>, doi:10.1007/S10601-011-9109-4.
- [35] Andrea Bartolini, Andrea Borghesi, Thomas Bridi, Michele Lombardi, and Michela Milano. Proactive workload dispatching on the EURORA supercomputer. In Barry O’Sullivan, editor, *Principles and Practice of Constraint Programming - 20th International Conference, CP 2014, Lyon, France, September 8-12, 2014. Proceedings*, volume 8656 of *Lecture Notes in Computer Science*, pages 765–780. Springer, 2014. doi:10.1007/978-3-319-10428-7_55.
- [36] Mohammadreza Barzegaran, Bahram Zarrin, and Paul Pop. Quality-of-control-aware scheduling of communication in tsn-based fog computing platforms using constraint programming. In Anton Cervin and Yang Yang, editors, *2nd Workshop on Fog Computing and the IoT, Fog-IoT 2020, April 21, 2020, Sydney, Australia*, volume 80 of *OASICS*, pages 3:1–3:9. Schloss Dagstuhl - Leibniz-Zentrum für Informatik, 2020. URL: <https://doi.org/10.4230/OASICS.Fog-IoT.2020.3>, doi:10.4230/OASICS.FOG-IOT.2020.3.
- [37] J. Christopher Beck, Andrew J. Davenport, and Mark S. Fox. Five pitfalls of empirical scheduling research. In Gert Smolka, editor, *Principles and Practice of Constraint Programming - CP97, Third International Conference, Linz, Austria, October 29 - November 1, 1997, Proceedings*, volume 1330 of *Lecture Notes in Computer Science*, pages 390–404. Springer, 1997. URL: <https://doi.org/10.1007/BFb0017455>, doi:10.1007/BFB0017455.
- [38] J. Christopher Beck, T. K. Feng, and Jean-Paul Watson. Combining constraint programming and local search for job-shop scheduling. *INFORMS J. Comput.*, 23(1):1–14, 2011. URL: <https://doi.org/10.1287/ijoc.1100.0388>, doi:10.1287/IJOC.1100.0388.
- [39] Mirza Omer Beg and Peter van Beek. A constraint programming approach for integrated spatial and temporal scheduling for clustered architectures. *ACM Trans. Embed. Comput. Syst.*, 13(1):14:1–14:23, 2013. URL: <http://doi.acm.org/10.1145/2512470>, doi:10.1145/2512470.
- [40] Jan Kristof Behrens, Ralph Lange, and Masoumeh Mansouri. A constraint programming approach to simultaneous task allocation and motion scheduling for industrial dual-arm manipulation tasks. In *International Conference on Robotics and Automation, ICRA 2019, Montreal, QC, Canada, May 20-24, 2019*, pages 8705–8711. IEEE, 2019. doi:10.1109/ICRA.2019.8794022.
- [41] Jan Kristof Behrens, Ralph Lange, and Masoumeh Mansouri. A constraint programming approach to simultaneous task allocation and motion scheduling for industrial dual-arm manipulation tasks. *CoRR*, abs/1901.07914, 2019. URL: <http://arxiv.org/abs/1901.07914>, arXiv:1901.07914.
- [42] Nicolas Beldiceanu and Mats Carlsson. A new multi-resource cumulatives constraint with negative heights. In Pascal Van Hentenryck, editor, *Principles and Practice of Constraint Programming - CP 2002, 8th International Conference, CP 2002, Ithaca, NY, USA, September 9-13, 2002, Proceedings*, volume 2470 of *Lecture Notes in Computer Science*, pages 63–79. Springer, 2002. doi:10.1007/3-540-46135-3_5.
- [43] Nicolas Beldiceanu, Mats Carlsson, Sophie Demasse, and Emmanuel Poder. New filtering for the *cumulative* constraint in the context of non-overlapping rectangles. *Ann. Oper. Res.*, 184(1):27–50, 2011. URL: <https://doi.org/10.1007/s10479-010-0731-0>, doi:10.1007/S10479-010-0731-0.
- [44] Nicolas Beldiceanu, Mats Carlsson, and Emmanuel Poder. New filtering for the cumulative constraint in the context of non-overlapping rectangles. In Laurent Perron and Michael A. Trick, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, 5th International Conference, CPAIOR 2008, Paris, France, May 20-23, 2008, Proceedings*, volume 5015 of *Lecture Notes in Computer Science*, pages 21–35. Springer, 2008. doi:10.1007/978-3-540-68155-7_5.

- [45] Nicolas Beldiceanu and Emmanuel Poder. A continuous multi-resources *cumulative* constraint with positive-negative resource consumption-production. In Pascal Van Hentenryck and Laurence A. Wolsey, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, 4th International Conference, CPAIOR 2007, Brussels, Belgium, May 23-26, 2007, Proceedings*, volume 4510 of *Lecture Notes in Computer Science*, pages 214–228. Springer, 2007. doi:10.1007/978-3-540-72397-4_16.
- [46] Said Belhadji and Amar Isli. Temporal constraint satisfaction techniques in job shop scheduling problem solving. *Constraints An Int. J.*, 3(2/3):203–211, 1998. doi:10.1023/A:1009777711218.
- [47] Till Bender, David Wittwer, and Thorsten Schmidt. Applying constraint programming to the multi-mode scheduling problem in harvest logistics. In Martijn Mes, Eduardo Lalla-Ruiz, and Stefan Voß, editors, *Computational Logistics - 12th International Conference, ICCL 2021, Enschede, The Netherlands, September 27-29, 2021, Proceedings*, volume 13004 of *Lecture Notes in Computer Science*, pages 562–577. Springer, 2021. doi:10.1007/978-3-030-87672-2_37.
- [48] Ondrej Benedikt, István Módos, and Zdenek Hanzálek. Power of pre-processing: production scheduling with variable energy pricing and power-saving states. *Constraints An Int. J.*, 25(3-4):300–318, 2020. URL: <https://doi.org/10.1007/s10601-020-09317-y>, doi:10.1007/S10601-020-09317-Y.
- [49] Ondrej Benedikt, Premysl Sucha, István Módos, Marek Vlk, and Zdenek Hanzálek. Energy-aware production scheduling with power-saving modes. In Willem Jan van Hoeve, editor, *Integration of Constraint Programming, Artificial Intelligence, and Operations Research - 15th International Conference, CPAIOR 2018, Delft, The Netherlands, June 26-29, 2018, Proceedings*, volume 10848 of *Lecture Notes in Computer Science*, pages 72–81. Springer, 2018. doi:10.1007/978-3-319-93031-2_6.
- [50] Luca Benini, Davide Bertozzi, Alessio Guerri, and Michela Milano. Allocation, scheduling and voltage scaling on energy aware mpsoes. In J. Christopher Beck and Barbara M. Smith, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, Third International Conference, CPAIOR 2006, Cork, Ireland, May 31 - June 2, 2006, Proceedings*, volume 3990 of *Lecture Notes in Computer Science*, pages 44–58. Springer, 2006. doi:10.1007/11757375_6.
- [51] E. Bensana, Michel Lemaître, and Gérard Verfaillie. Earth observation satellite management. *Constraints An Int. J.*, 4(3):293–299, 1999. doi:10.1023/A:1026488509554.
- [52] Timo Berthold, Stefan Heinz, Marco E. Lübbecke, Rolf H. Möhring, and Jens Schulz. A constraint integer programming approach for resource-constrained project scheduling. In Andrea Lodi, Michela Milano, and Paolo Toth, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, 7th International Conference, CPAIOR 2010, Bologna, Italy, June 14-18, 2010. Proceedings*, volume 6140 of *Lecture Notes in Computer Science*, pages 313–317. Springer, 2010. doi:10.1007/978-3-642-13520-0_34.
- [53] Christian Bessiere, Emmanuel Hebrard, Marc-André Ménard, Claude-Guy Quimper, and Toby Walsh. Buffered resource constraint: Algorithms and complexity. In Helmut Simonis, editor, *Integration of AI and OR Techniques in Constraint Programming - 11th International Conference, CPAIOR 2014, Cork, Ireland, May 19-23, 2014. Proceedings*, volume 8451 of *Lecture Notes in Computer Science*, pages 318–333. Springer, 2014. doi:10.1007/978-3-319-07046-9_23.
- [54] Jean-Charles Billaut, Emmanuel Hebrard, and Pierre Lopez. Complete characterization of near-optimal sequences for the two-machine flow shop scheduling problem. In Nicolas Beldiceanu, Narendra Jussien, and Eric Pinson, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems - 9th International Conference, CPAIOR 2012, Nantes, France, May 28 - June 1, 2012. Proceedings*, volume 7298 of *Lecture Notes in Computer Science*, pages 66–80. Springer, 2012. doi:10.1007/978-3-642-29828-8_5.
- [55] Arthur Bit-Monnot. Enhancing hybrid CP-SAT search for disjunctive scheduling. In Kobi Gal, Ann Nowé, Grzegorz J. Nalepa, Roy Fairstein, and Roxana Radulescu, editors, *ECAI 2023 - 26th European Conference on Artificial Intelligence, September 30 - October 4, 2023, Kraków, Poland - Including 12th Conference*

- on *Prestigious Applications of Intelligent Systems (PAIS 2023)*, volume 372 of *Frontiers in Artificial Intelligence and Applications*, pages 255–262. IOS Press, 2023. doi:10.3233/FAIA230278.
- [56] Grzegorz Bocewicz, Irena Bach, and Zbigniew Antoni Banaszak. Logic-algebraic method based and constraints programming driven approach to agvs scheduling. *Int. J. Intell. Inf. Database Syst.*, 3(1):56–74, 2009. doi:10.1504/IJIDS.2009.023038.
 - [57] Miquel Bofill, Jordi Coll, Josep Suy, and Mateu Villaret. An efficient SMT approach to solve mrcpsp/max instances with tight constraints on resources. In J. Christopher Beck, editor, *Principles and Practice of Constraint Programming - 23rd International Conference, CP 2017, Melbourne, VIC, Australia, August 28 - September 1, 2017, Proceedings*, volume 10416 of *Lecture Notes in Computer Science*, pages 71–79. Springer, 2017. doi:10.1007/978-3-319-66158-2_5.
 - [58] Miquel Bofill, Joan Espasa, Marc Garcia, Miquel Palahí, Josep Suy, and Mateu Villaret. Scheduling B2B meetings. In Barry O’Sullivan, editor, *Principles and Practice of Constraint Programming - 20th International Conference, CP 2014, Lyon, France, September 8-12, 2014. Proceedings*, volume 8656 of *Lecture Notes in Computer Science*, pages 781–796. Springer, 2014. doi:10.1007/978-3-319-10428-7_56.
 - [59] Miquel Bofill, Marc Garcia, Josep Suy, and Mateu Villaret. Maxsat-based scheduling of B2B meetings. In Laurent Michel, editor, *Integration of AI and OR Techniques in Constraint Programming - 12th International Conference, CPAIOR 2015, Barcelona, Spain, May 18-22, 2015, Proceedings*, volume 9075 of *Lecture Notes in Computer Science*, pages 65–73. Springer, 2015. doi:10.1007/978-3-319-18008-3_5.
 - [60] Alessio Bonfietti. A constraint programming scheduling solver for the mpopt programming environment. *Intelligenza Artificiale*, 10(1):65–77, 2016. doi:10.3233/IA-160095.
 - [61] Alessio Bonfietti, Michele Lombardi, Luca Benini, and Michela Milano. A constraint based approach to cyclic RCPSP. In Jimmy Ho-Man Lee, editor, *Principles and Practice of Constraint Programming - CP 2011 - 17th International Conference, CP 2011, Perugia, Italy, September 12-16, 2011. Proceedings*, volume 6876 of *Lecture Notes in Computer Science*, pages 130–144. Springer, 2011. doi:10.1007/978-3-642-23786-7_12.
 - [62] Alessio Bonfietti, Michele Lombardi, Luca Benini, and Michela Milano. Global cyclic cumulative constraint. In Nicolas Beldiceanu, Narendra Jussien, and Eric Pinson, editors, *Integration of AI and OR Techniques in Contraint Programming for Combinatorial Optimzation Problems - 9th International Conference, CPAIOR 2012, Nantes, France, May 28 - June1, 2012. Proceedings*, volume 7298 of *Lecture Notes in Computer Science*, pages 81–96. Springer, 2012. doi:10.1007/978-3-642-29828-8_6.
 - [63] Alessio Bonfietti, Michele Lombardi, and Michela Milano. Disregarding duration uncertainty in partial order schedules? yes, we can! In Helmut Simonis, editor, *Integration of AI and OR Techniques in Constraint Programming - 11th International Conference, CPAIOR 2014, Cork, Ireland, May 19-23, 2014. Proceedings*, volume 8451 of *Lecture Notes in Computer Science*, pages 210–225. Springer, 2014. doi:10.1007/978-3-319-07046-9_15.
 - [64] Alessio Bonfietti, Alessandro Zanarini, Michele Lombardi, and Michela Milano. The multirate resource constraint. In Michel Rueher, editor, *Principles and Practice of Constraint Programming - 22nd International Conference, CP 2016, Toulouse, France, September 5-9, 2016, Proceedings*, volume 9892 of *Lecture Notes in Computer Science*, pages 113–129. Springer, 2016. doi:10.1007/978-3-319-44953-1_8.
 - [65] Kyle E. C. Booth, Goldie Nejat, and J. Christopher Beck. A constraint programming approach to multi-robot task allocation and scheduling in retirement homes. In Michel Rueher, editor, *Principles and Practice of Constraint Programming - 22nd International Conference, CP 2016, Toulouse, France, September 5-9, 2016, Proceedings*, volume 9892 of *Lecture Notes in Computer Science*, pages 539–555. Springer, 2016. doi:10.1007/978-3-319-44953-1_34.
 - [66] Eric Boucher, Astrid Bachelu, Christophe Varnier, Pierre Baptiste, and Bruno Legeard. Multi-criteria comparison between algorithmic, constraint logic and specific constraint programming on a real schedulingt problem. In Mark Wallace, editor, *Proceedings of the Third International Conference on the Practical Application of Constraint Technology, PACT 1997, Westminster Central Hall, London, UK, April 23-25, 1997*, pages 47–64. Practical Application Company Ltd., 1997.

- [67] Raphaël Boudreault, Vanessa Simard, Daniel Lafond, and Claude-Guy Quimper. A constraint programming approach to ship refit project scheduling. In Christine Solnon, editor, *28th International Conference on Principles and Practice of Constraint Programming, CP 2022, July 31 to August 8, 2022, Haifa, Israel*, volume 235 of *LIPICs*, pages 10:1–10:16. Schloss Dagstuhl - Leibniz-Zentrum für Informatik, 2022. URL: <https://doi.org/10.4230/LIPICs.CP.2022.10>, doi:10.4230/LIPICs.CP.2022.10.
- [68] Eric Bourreau, Thierry Garaix, Matthieu Gondran, Philippe Lacomme, and Nikolay Tchernev. A constraint-programming based decomposition method for the generalised workforce scheduling and routing problem (GWSRP). *Int. J. Prod. Res.*, 60(4):1265–1283, 2022. doi:10.1080/00207543.2020.1856436.
- [69] Silvia Breitter and Hendrik C. R. Lock. Using constraint logic programming for industrial scheduling problems. In Christoph Beierle and Lutz Plümer, editors, *Logic Programming: Formal Methods and Practical Applications, Studies in Computer Science and Artificial Intelligence*, pages 273–299. Elsevier Science B.V./North-Holland, 1995.
- [70] Christina N. Burt, Nir Lipovetzky, Adrian R. Pearce, and Peter J. Stuckey. Scheduling with fixed maintenance, shared resources and nonlinear feedrate constraints: A mine planning case study. In Laurent Michel, editor, *Integration of AI and OR Techniques in Constraint Programming - 12th International Conference, CPAIOR 2015, Barcelona, Spain, May 18-22, 2015, Proceedings*, volume 9075 of *Lecture Notes in Computer Science*, pages 91–107. Springer, 2015. doi:10.1007/978-3-319-18008-3_7.
- [71] Jordi Coll Caballero. Scheduling through logic-based tools. *Constraints An Int. J.*, 28(3):510, 2023. URL: <https://doi.org/10.1007/s10601-023-09357-0>, doi:10.1007/S10601-023-09357-0.
- [72] Louis-Pierre Campeau and Michel Gamache. Short- and medium-term optimization of underground mine planning using constraint programming. *Constraints An Int. J.*, 27(4):414–431, 2022. URL: <https://doi.org/10.1007/s10601-022-09337-w>, doi:10.1007/S10601-022-09337-W.
- [73] Quentin Cappart and Pierre Schaus. Rescheduling railway traffic on real time situations using time-interval variables. In Domenico Salvagnin and Michele Lombardi, editors, *Integration of AI and OR Techniques in Constraint Programming - 14th International Conference, CPAIOR 2017, Padua, Italy, June 5-8, 2017, Proceedings*, volume 10335 of *Lecture Notes in Computer Science*, pages 312–327. Springer, 2017. doi:10.1007/978-3-319-59776-8_26.
- [74] Tom Carchrae, J. Christopher Beck, and Eugene C. Freuder. Methods to learn abstract scheduling models. In Peter van Beek, editor, *Principles and Practice of Constraint Programming - CP 2005, 11th International Conference, CP 2005, Sitges, Spain, October 1-5, 2005, Proceedings*, volume 3709 of *Lecture Notes in Computer Science*, page 842. Springer, 2005. doi:10.1007/11564751_80.
- [75] Yves Caseau. Using constraint propagation for complex scheduling problems: Managing size, complex resources and travel. In Gert Smolka, editor, *Principles and Practice of Constraint Programming - CP97, Third International Conference, Linz, Austria, October 29 - November 1, 1997, Proceedings*, volume 1330 of *Lecture Notes in Computer Science*, pages 163–166. Springer, 1997. URL: <https://doi.org/10.1007/BFb0017437>, doi:10.1007/BFB0017437.
- [76] Sascha Van Cauwelaert, Cyrille Dejemeppe, Jean-Noël Monette, and Pierre Schaus. Efficient filtering for the unary resource with family-based transition times. In Michel Rueher, editor, *Principles and Practice of Constraint Programming - 22nd International Conference, CP 2016, Toulouse, France, September 5-9, 2016, Proceedings*, volume 9892 of *Lecture Notes in Computer Science*, pages 520–535. Springer, 2016. doi:10.1007/978-3-319-44953-1_33.
- [77] Amedeo Cesta, Angelo Oddi, and Stephen F. Smith. Scheduling multi-capacitated resources under complex temporal constraints. In Michael J. Maher and Jean-Francois Puget, editors, *Principles and Practice of Constraint Programming - CP98, 4th International Conference, Pisa, Italy, October 26-30, 1998, Proceedings*, volume 1520 of *Lecture Notes in Computer Science*, page 465. Springer, 1998. doi:10.1007/3-540-49481-2_36.

- [78] Nicolas Chapados, Marc Joliveau, and Louis-Martin Rousseau. Retail store workforce scheduling by expected operating income maximization. In Tobias Achterberg and J. Christopher Beck, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems - 8th International Conference, CPAIOR 2011, Berlin, Germany, May 23-27, 2011. Proceedings*, volume 6697 of *Lecture Notes in Computer Science*, pages 53–58. Springer, 2011. doi:10.1007/978-3-642-21311-3_7.
- [79] Yingyi Chu and Quanshi Xia. A hybrid algorithm for a class of resource constrained scheduling problems. In Roman Barták and Michela Milano, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, Second International Conference, CPAIOR 2005, Prague, Czech Republic, May 30 - June 1, 2005, Proceedings*, volume 3524 of *Lecture Notes in Computer Science*, pages 110–124. Springer, 2005. doi:10.1007/11493853_10.
- [80] André A. Ciré, Elvin Coban, and John N. Hooker. Mixed integer programming vs. logic-based benders decomposition for planning and scheduling. In Carla P. Gomes and Meinolf Sellmann, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, 10th International Conference, CPAIOR 2013, Yorktown Heights, NY, USA, May 18-22, 2013. Proceedings*, volume 7874 of *Lecture Notes in Computer Science*, pages 325–331. Springer, 2013. doi:10.1007/978-3-642-38171-3_22.
- [81] Alexis De Clercq, Thierry Petit, Nicolas Beldiceanu, and Narendra Jussien. Filtering algorithms for discrete cumulative problems with overloads of resource. In Jimmy Ho-Man Lee, editor, *Principles and Practice of Constraint Programming - CP 2011 - 17th International Conference, CP 2011, Perugia, Italy, September 12-16, 2011. Proceedings*, volume 6876 of *Lecture Notes in Computer Science*, pages 240–255. Springer, 2011. doi:10.1007/978-3-642-23786-7_20.
- [82] Elvin Coban and John N. Hooker. Single-facility scheduling over long time horizons by logic-based benders decomposition. In Andrea Lodi, Michela Milano, and Paolo Toth, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, 7th International Conference, CPAIOR 2010, Bologna, Italy, June 14-18, 2010. Proceedings*, volume 6140 of *Lecture Notes in Computer Science*, pages 87–91. Springer, 2010. doi:10.1007/978-3-642-13520-0_11.
- [83] Giacomo Da Col and Erich Christian Teppan. Industrial size job shop scheduling tackled by present day CP solvers. In Thomas Schiex and Simon de Givry, editors, *Principles and Practice of Constraint Programming - 25th International Conference, CP 2019, Stamford, CT, USA, September 30 - October 4, 2019, Proceedings*, volume 11802 of *Lecture Notes in Computer Science*, pages 144–160. Springer, 2019. doi:10.1007/978-3-030-30048-7_9.
- [84] Yves Colombani. Constraint programming: an efficient and practical approach to solving the job-shop problem. In Eugene C. Freuder, editor, *Proceedings of the Second International Conference on Principles and Practice of Constraint Programming, Cambridge, Massachusetts, USA, August 19-22, 1996*, volume 1118 of *Lecture Notes in Computer Science*, pages 149–163. Springer, 1996. doi:10.1007/3-540-61551-2_72.
- [85] Emilie Danna and Laurent Perron. Structured vs. unstructured large neighborhood search: A case study on job-shop scheduling problems with earliness and tardiness costs. In Francesca Rossi, editor, *Principles and Practice of Constraint Programming - CP 2003, 9th International Conference, CP 2003, Kinsale, Ireland, September 29 - October 3, 2003, Proceedings*, volume 2833 of *Lecture Notes in Computer Science*, pages 817–821. Springer, 2003. doi:10.1007/978-3-540-45193-8_59.
- [86] Ken Darby-Dowman, James Little, Gautam Mitra, and Marco Zaffalon. Constraint logic programming and integer programming approaches and their collaboration in solving an assignment scheduling problem. *Constraints An Int. J.*, 1(3):245–264, 1997. doi:10.1007/BF00137871.
- [87] Andrew J. Davenport. Integrated maintenance scheduling for semiconductor manufacturing. In Andrea Lodi, Michela Milano, and Paolo Toth, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, 7th International Conference, CPAIOR 2010, Bologna, Italy, June 14-18, 2010. Proceedings*, volume 6140 of *Lecture Notes in Computer Science*, pages 92–96. Springer, 2010. doi:10.1007/978-3-642-13520-0_12.

- [88] Andrew J. Davenport, Jayant Kalagnanam, Chandra Reddy, Stuart Siegel, and John Hou. An application of constraint programming to generating detailed operations schedules for steel manufacturing. In Christian Bessiere, editor, *Principles and Practice of Constraint Programming - CP 2007, 13th International Conference, CP 2007, Providence, RI, USA, September 23-27, 2007, Proceedings*, volume 4741 of *Lecture Notes in Computer Science*, pages 64–76. Springer, 2007. doi:10.1007/978-3-540-74970-7_7.
- [89] Levi Ribeiro de Abreu and Marcelo Seido Nagano. A new hybridization of adaptive large neighborhood search with constraint programming for open shop scheduling with sequence-dependent setup times. *Comput. Ind. Eng.*, 168:108128, 2022. URL: <https://doi.org/10.1016/j.cie.2022.108128>, doi:10.1016/J.CIE.2022.108128.
- [90] Levi Ribeiro de Abreu, Marcelo Seido Nagano, and Bruno A. Prata. A new two-stage constraint programming approach for open shop scheduling problem with machine blocking. *Int. J. Prod. Res.*, 61(24):8560–8579, 2023. doi:10.1080/00207543.2022.2154404.
- [91] Cyrille Dejemeppe. *Constraint programming algorithms and models for scheduling applications*. PhD thesis, Catholic University of Louvain, Louvain-la-Neuve, Belgium, 2016. URL: <https://hdl.handle.net/2078.1/178078>.
- [92] Cyrille Dejemeppe, Sascha Van Cauwelaert, and Pierre Schaus. The unary resource with transition times. In Gilles Pesant, editor, *Principles and Practice of Constraint Programming - 21st International Conference, CP 2015, Cork, Ireland, August 31 - September 4, 2015, Proceedings*, volume 9255 of *Lecture Notes in Computer Science*, pages 89–104. Springer, 2015. doi:10.1007/978-3-319-23219-5_7.
- [93] Cyrille Dejemeppe and Yves Deville. Continuously degrading resource and interval dependent activity durations in nuclear medicine patient scheduling. In Helmut Simonis, editor, *Integration of AI and OR Techniques in Constraint Programming - 11th International Conference, CPAIOR 2014, Cork, Ireland, May 19-23, 2014. Proceedings*, volume 8451 of *Lecture Notes in Computer Science*, pages 284–292. Springer, 2014. doi:10.1007/978-3-319-07046-9_20.
- [94] Sophie Demasse. *Méthodes hybrides de programmation par contraintes et programmation linéaire pour le problème d’ordonnancement de projet à contraintes de ressources. (Hybrid Constraint Programming-Integer Linear Programming approaches for the Resource-Constrained Project Scheduling Problem)*. PhD thesis, University of Avignon, France, 2003. URL: <https://tel.archives-ouvertes.fr/tel-00293564>.
- [95] Emir Demirovic and Peter J. Stuckey. Constraint programming for high school timetabling: A scheduling-based model with hot starts. In Willem Jan van Hoeve, editor, *Integration of Constraint Programming, Artificial Intelligence, and Operations Research - 15th International Conference, CPAIOR 2018, Delft, The Netherlands, June 26-29, 2018, Proceedings*, volume 10848 of *Lecture Notes in Computer Science*, pages 135–152. Springer, 2018. doi:10.1007/978-3-319-93031-2_10.
- [96] Alban Derrien. *Ordonnancement cumulatif en programmation par contraintes : caractérisation énergétique des raisonnements et solutions robustes. (Cumulative scheduling in constraint programming : energetic characterization of reasoning and robust solutions)*. PhD thesis, École des mines de Nantes, France, 2015. URL: <https://tel.archives-ouvertes.fr/tel-01242789>.
- [97] Alban Derrien and Thierry Petit. A new characterization of relevant intervals for energetic reasoning. In Barry O’Sullivan, editor, *Principles and Practice of Constraint Programming - 20th International Conference, CP 2014, Lyon, France, September 8-12, 2014. Proceedings*, volume 8656 of *Lecture Notes in Computer Science*, pages 289–297. Springer, 2014. doi:10.1007/978-3-319-10428-7_22.
- [98] Alban Derrien, Thierry Petit, and Stéphane Zampelli. A declarative paradigm for robust cumulative scheduling. In Barry O’Sullivan, editor, *Principles and Practice of Constraint Programming - 20th International Conference, CP 2014, Lyon, France, September 8-12, 2014. Proceedings*, volume 8656 of *Lecture Notes in Computer Science*, pages 298–306. Springer, 2014. doi:10.1007/978-3-319-10428-7_23.

- [99] Stefano Di Alesio, Shiva Nejati, Lionel C. Briand, and Arnaud Gotlieb. Worst-case scheduling of software tasks - A constraint optimization model to support performance testing. In Barry O’Sullivan, editor, *Principles and Practice of Constraint Programming - 20th International Conference, CP 2014, Lyon, France, September 8-12, 2014. Proceedings*, volume 8656 of *Lecture Notes in Computer Science*, pages 813–830. Springer, 2014. doi:10.1007/978-3-319-10428-7_58.
- [100] Bistra Dilkina, Lei Duan, and William S. Havens. Extending systematic local search for job shop scheduling problems. In Peter van Beek, editor, *Principles and Practice of Constraint Programming - CP 2005, 11th International Conference, CP 2005, Sitges, Spain, October 1-5, 2005, Proceedings*, volume 3709 of *Lecture Notes in Computer Science*, pages 762–766. Springer, 2005. doi:10.1007/11564751_60.
- [101] Grégoire Doms and Pascal Van Hentenryck. Gap reduction techniques for online stochastic project scheduling. In Laurent Perron and Michael A. Trick, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, 5th International Conference, CPAIOR 2008, Paris, France, May 20-23, 2008, Proceedings*, volume 5015 of *Lecture Notes in Computer Science*, pages 66–81. Springer, 2008. doi:10.1007/978-3-540-68155-7_8.
- [102] Seyed Hossein Hashemi Doulabi, Louis-Martin Rousseau, and Gilles Pesant. A constraint programming-based column generation approach for operating room planning and scheduling. In Helmut Simonis, editor, *Integration of AI and OR Techniques in Constraint Programming - 11th International Conference, CPAIOR 2014, Cork, Ireland, May 19-23, 2014. Proceedings*, volume 8451 of *Lecture Notes in Computer Science*, pages 455–463. Springer, 2014. doi:10.1007/978-3-319-07046-9_32.
- [103] Seyed Hossein Hashemi Doulabi, Louis-Martin Rousseau, and Gilles Pesant. A constraint-programming-based branch-and-price-and-cut approach for operating room planning and scheduling. *INFORMS J. Comput.*, 28(3):432–448, 2016. URL: <https://doi.org/10.1287/ijoc.2015.0686>, doi:10.1287/IJOC.2015.0686.
- [104] Emrah B. Edis and Ceyda Oguz. Parallel machine scheduling with additional resources: A lagrangian-based constraint programming approach. In Tobias Achterberg and J. Christopher Beck, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems - 8th International Conference, CPAIOR 2011, Berlin, Germany, May 23-27, 2011. Proceedings*, volume 6697 of *Lecture Notes in Computer Science*, pages 92–98. Springer, 2011. doi:10.1007/978-3-642-21311-3_10.
- [105] Nikolaos Efthymiou and Neil Yorke-Smith. Predicting the optimal period for cyclic hoist scheduling problems. In André A. Ciré, editor, *Integration of Constraint Programming, Artificial Intelligence, and Operations Research - 20th International Conference, CPAIOR 2023, Nice, France, May 29 - June 1, 2023, Proceedings*, volume 13884 of *Lecture Notes in Computer Science*, pages 238–253. Springer, 2023. doi:10.1007/978-3-031-33271-5_16.
- [106] Abdallah Elkhyari, Christelle Guéret, and Narendra Jussien. Conflict-based repair techniques for solving dynamic scheduling problems. In Pascal Van Hentenryck, editor, *Principles and Practice of Constraint Programming - CP 2002, 8th International Conference, CP 2002, Ithaca, NY, USA, September 9-13, 2002, Proceedings*, volume 2470 of *Lecture Notes in Computer Science*, pages 702–707. Springer, 2002. doi:10.1007/3-540-46135-3_49.
- [107] Abdallah Elkhyari, Christelle Guéret, and Narendra Jussien. Solving dynamic resource constraint project scheduling problems using new constraint programming tools. In Edmund K. Burke and Patrick De Causmaecker, editors, *Practice and Theory of Automated Timetabling IV, 4th International Conference, PATAT 2002, Gent, Belgium, August 21-23, 2002, Selected Revised Papers*, volume 2740 of *Lecture Notes in Computer Science*, pages 39–62. Springer, 2002. doi:10.1007/978-3-540-45157-0_3.
- [108] M. Anton Ertl and Andreas Krall. Optimal instruction scheduling using constraint logic programming. In Jan Maluszynski and Martin Wirsing, editors, *Programming Language Implementation and Logic Programming, 3rd International Symposium, PLILP’91, Passau, Germany, August 26-28, 1991, Proceedings*, volume 528 of *Lecture Notes in Computer Science*, pages 75–86. Springer, 1991. doi:10.1007/3-540-54444-5_89.
- [109] Teresa Escobet, Vicenç Puig, Joseba Quevedo, Pere Palà-Schönwälder, Juli Romera, and W. Adelman. Optimal batch scheduling of a multiproduct dairy process using a combined optimization/constraint programming approach. *Comput. Chem. Eng.*, 124:228–237, 2019. URL: <https://doi.org/10.1016/j.compchemeng.2018.08.040>, doi:10.1016/J.COMPCEMENG.2018.08.040.

- [110] Caroline Even, Andreas Schutt, and Pascal Van Hentenryck. A constraint programming approach for non-preemptive evacuation scheduling. In Gilles Pesant, editor, *Principles and Practice of Constraint Programming - 21st International Conference, CP 2015, Cork, Ireland, August 31 - September 4, 2015, Proceedings*, volume 9255 of *Lecture Notes in Computer Science*, pages 574–591. Springer, 2015. doi:10.1007/978-3-319-23219-5_40.
- [111] Caroline Even, Andreas Schutt, and Pascal Van Hentenryck. A constraint programming approach for non-preemptive evacuation scheduling. *CoRR*, abs/1505.02487, 2015. URL: <http://arxiv.org/abs/1505.02487>, arXiv:1505.02487.
- [112] Hamed Fahimi, Yanick Ouellet, and Claude-Guy Quimper. Linear-time filtering algorithms for the disjunctive constraint and a quadratic filtering algorithm for the cumulative not-first not-last. *Constraints An Int. J.*, 23(3):272–293, 2018. URL: <https://doi.org/10.1007/s10601-018-9282-9>, doi:10.1007/S10601-018-9282-9.
- [113] Moreno Falaschi, Maurizio Gabbrielli, Kim Marriott, and Catuscia Palamidessi. Constraint logic programming with dynamic scheduling: A semantics based on closure operators. *Inf. Comput.*, 137(1):41–67, 1997. URL: <https://doi.org/10.1006/inco.1997.2638>, doi:10.1006/INCO.1997.2638.
- [114] Huali Fan, Hegen Xiong, and Mark Goh. Genetic programming-based hyper-heuristic approach for solving dynamic job shop scheduling problem with extended technical precedence constraints. *Comput. Oper. Res.*, 134:105401, 2021. URL: <https://doi.org/10.1016/j.cor.2021.105401>, doi:10.1016/J.COR.2021.105401.
- [115] Séverine Betmbe Fetgo and Clémentin Tayou Djamégni. Horizontally elastic edge-finder algorithm for cumulative resource constraint revisited. *Oper. Res. Forum*, 3(4), 2022. URL: <https://doi.org/10.1007/s43069-022-00172-6>, doi:10.1007/S43069-022-00172-6.
- [116] Daniel Fontaine, Laurent D. Michel, and Pascal Van Hentenryck. Parallel composition of scheduling solvers. In Claude-Guy Quimper, editor, *Integration of AI and OR Techniques in Constraint Programming - 13th International Conference, CPAIOR 2016, Banff, AB, Canada, May 29 - June 1, 2016, Proceedings*, volume 9676 of *Lecture Notes in Computer Science*, pages 159–169. Springer, 2016. doi:10.1007/978-3-319-33954-2_12.
- [117] Jérôme Fortin, Pawel Zielinski, Didier Dubois, and Hélène Fargier. Interval analysis in scheduling. In Peter van Beek, editor, *Principles and Practice of Constraint Programming - CP 2005, 11th International Conference, CP 2005, Sitges, Spain, October 1-5, 2005, Proceedings*, volume 3709 of *Lecture Notes in Computer Science*, pages 226–240. Springer, 2005. doi:10.1007/11564751_19.
- [118] Jeremy Frank and Elif Kürklü. Mixed discrete and continuous algorithms for scheduling airborne astronomy observations. In Roman Barták and Michela Milano, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, Second International Conference, CPAIOR 2005, Prague, Czech Republic, May 30 - June 1, 2005, Proceedings*, volume 3524 of *Lecture Notes in Computer Science*, pages 183–200. Springer, 2005. doi:10.1007/11493853_15.
- [119] Gerhard Friedrich, Melanie Frühstück, Vera Mersheeva, Anna Ryabokon, Maria Sander, Andreas Starzacher, and Erich Teppan. Representing production scheduling with constraint answer set programming. In Marco E. Lübbecke, Arie Koster, Peter Letmathe, Reinhard Madlener, Britta Peis, and Grit Walther, editors, *Operations Research Proceedings 2014, Selected Papers of the Annual International Conference of the German Operations Research Society (GOR), RWTH Aachen University, Germany, September 2-5, 2014*, pages 159–165. Springer, 2014. doi:10.1007/978-3-319-28697-6_23.
- [120] Sara Frimodig and Christian Schulte. Models for radiation therapy patient scheduling. In Thomas Schiex and Simon de Givry, editors, *Principles and Practice of Constraint Programming - 25th International Conference, CP 2019, Stamford, CT, USA, September 30 - October 4, 2019, Proceedings*, volume 11802 of *Lecture Notes in Computer Science*, pages 421–437. Springer, 2019. doi:10.1007/978-3-030-30048-7_25.

- [121] Nikolaus Frohner, Stephan Teuschl, and Günther R. Raidl. Casual employee scheduling with constraint programming and metaheuristics. In Roberto Moreno-Díaz, Franz Pichler, and Alexis Quesada-Arencibia, editors, *Computer Aided Systems Theory - EUROCAST 2019 - 17th International Conference, Las Palmas de Gran Canaria, Spain, February 17-22, 2019, Revised Selected Papers, Part I*, volume 12013 of *Lecture Notes in Computer Science*, pages 279–287. Springer, 2019. doi:10.1007/978-3-030-45093-9_34.
- [122] Daniel Frost and Rina Dechter. Optimizing with constraints: A case study in scheduling maintenance of electric power units. In Michael J. Maher and Jean-Francois Puget, editors, *Principles and Practice of Constraint Programming - CP98, 4th International Conference, Pisa, Italy, October 26-30, 1998, Proceedings*, volume 1520 of *Lecture Notes in Computer Science*, page 469. Springer, 1998. doi:10.1007/3-540-49481-2_40.
- [123] Cristian Galleguillos, Zeynep Kiziltan, Alina Sirbu, and Özalp Babaoglu. Constraint programming-based job dispatching for modern HPC applications. In Thomas Schiex and Simon de Givry, editors, *Principles and Practice of Constraint Programming - 25th International Conference, CP 2019, Stamford, CT, USA, September 30 - October 4, 2019, Proceedings*, volume 11802 of *Lecture Notes in Computer Science*, pages 438–455. Springer, 2019. doi:10.1007/978-3-030-30048-7_26.
- [124] Antoine Gargani and Philippe Refalo. An efficient model and strategy for the steel mill slab design problem. In Christian Bessiere, editor, *Principles and Practice of Constraint Programming - CP 2007, 13th International Conference, CP 2007, Providence, RI, USA, September 23-27, 2007, Proceedings*, volume 4741 of *Lecture Notes in Computer Science*, pages 77–89. Springer, 2007. doi:10.1007/978-3-540-74970-7_8.
- [125] Antonio Garrido, Marlene Arangú, and Eva Onaindia. A constraint programming formulation for planning: from plan scheduling to plan generation. *J. Sched.*, 12(3):227–256, 2009. URL: <https://doi.org/10.1007/s10951-008-0083-7>, doi:10.1007/S10951-008-0083-7.
- [126] Antonio Garrido, Eva Onaindia, and Óscar Sapena. Planning and scheduling in an e-learning environment. A constraint-programming-based approach. *Eng. Appl. Artif. Intell.*, 21(5):733–743, 2008. URL: <https://doi.org/10.1016/j.engappai.2008.03.009>, doi:10.1016/J.ENGAPPAI.2008.03.009.
- [127] Steven Gay, Renaud Hartert, Christophe Lecoutre, and Pierre Schaus. Conflict ordering search for scheduling problems. In Gilles Pesant, editor, *Principles and Practice of Constraint Programming - 21st International Conference, CP 2015, Cork, Ireland, August 31 - September 4, 2015, Proceedings*, volume 9255 of *Lecture Notes in Computer Science*, pages 140–148. Springer, 2015. doi:10.1007/978-3-319-23219-5_10.
- [128] Steven Gay, Renaud Hartert, and Pierre Schaus. Simple and scalable time-table filtering for the cumulative constraint. In Gilles Pesant, editor, *Principles and Practice of Constraint Programming - 21st International Conference, CP 2015, Cork, Ireland, August 31 - September 4, 2015, Proceedings*, volume 9255 of *Lecture Notes in Computer Science*, pages 149–157. Springer, 2015. doi:10.1007/978-3-319-23219-5_11.
- [129] Steven Gay, Renaud Hartert, and Pierre Schaus. Time-table disjunctive reasoning for the cumulative constraint. In Laurent Michel, editor, *Integration of AI and OR Techniques in Constraint Programming - 12th International Conference, CPAIOR 2015, Barcelona, Spain, May 18-22, 2015, Proceedings*, volume 9075 of *Lecture Notes in Computer Science*, pages 157–172. Springer, 2015. doi:10.1007/978-3-319-18008-3_11.
- [130] Steven Gay, Pierre Schaus, and Vivian De Smedt. Continuous casting scheduling with constraint programming. In Barry O’Sullivan, editor, *Principles and Practice of Constraint Programming - 20th International Conference, CP 2014, Lyon, France, September 8-12, 2014. Proceedings*, volume 8656 of *Lecture Notes in Computer Science*, pages 831–845. Springer, 2014. doi:10.1007/978-3-319-10428-7_59.
- [131] Ridvan Gedik, Darshan Kalathia, Gokhan Egilmez, and Emre Kirac. A constraint programming approach for solving unrelated parallel machine scheduling problem. *Comput. Ind. Eng.*, 121:139–149, 2018. URL: <https://doi.org/10.1016/j.cie.2018.05.014>, doi:10.1016/J.CIE.2018.05.014.
- [132] Tobias Geibinger, Lucas Kletzander, Matthias Krainz, Florian Mischek, Nysret Musliu, and Felix Winter. Physician scheduling during a pandemic. In Peter J. Stuckey, editor, *Integration of Constraint Programming, Artificial Intelligence, and Operations Research - 18th International Conference, CPAIOR 2021, Vienna, Austria, July 5-8, 2021, Proceedings*, volume 12735 of *Lecture Notes in Computer Science*, pages 456–465. Springer, 2021. doi:10.1007/978-3-030-78230-6_29.

- [133] Tobias Geibinger, Florian Mischek, and Nysret Musliu. Investigating constraint programming and hybrid methods for real world industrial test laboratory scheduling. *CoRR*, abs/1911.04766, 2019. URL: <http://arxiv.org/abs/1911.04766>, arXiv:1911.04766.
- [134] Tobias Geibinger, Florian Mischek, and Nysret Musliu. Investigating constraint programming for real world industrial test laboratory scheduling. In Louis-Martin Rousseau and Kostas Stergiou, editors, *Integration of Constraint Programming, Artificial Intelligence, and Operations Research - 16th International Conference, CPAIOR 2019, Thessaloniki, Greece, June 4-7, 2019, Proceedings*, volume 11494 of *Lecture Notes in Computer Science*, pages 304–319. Springer, 2019. doi:10.1007/978-3-030-19212-9_20.
- [135] Tobias Geibinger, Florian Mischek, and Nysret Musliu. Constraint logic programming for real-world test laboratory scheduling. In *Thirty-Fifth AAAI Conference on Artificial Intelligence, AAAI 2021, Thirty-Third Conference on Innovative Applications of Artificial Intelligence, IAAI 2021, The Eleventh Symposium on Educational Advances in Artificial Intelligence, EAAI 2021, Virtual Event, February 2-9, 2021*, pages 6358–6366. AAAI Press, 2021. URL: <https://doi.org/10.1609/aaai.v35i7.16789>, doi:10.1609/AAAI.V35I7.16789.
- [136] Marc Geitz, Cristian Grozea, Wolfgang Steigerwald, Robin Stöhr, and Armin Wolf. Solving the extended job shop scheduling problem with agvs - classical and quantum approaches. In Pierre Schaus, editor, *Integration of Constraint Programming, Artificial Intelligence, and Operations Research - 19th International Conference, CPAIOR 2022, Los Angeles, CA, USA, June 20-23, 2022, Proceedings*, volume 13292 of *Lecture Notes in Computer Science*, pages 120–137. Springer, 2022. doi:10.1007/978-3-031-08011-1_10.
- [137] Mirco Gelain, Maria Silvia Pini, Francesca Rossi, Kristen Brent Venable, and Toby Walsh. A local search approach for incomplete soft constraint problems: Experimental results on meeting scheduling problems. In Domenico Salvagnin and Michele Lombardi, editors, *Integration of AI and OR Techniques in Constraint Programming - 14th International Conference, CPAIOR 2017, Padua, Italy, June 5-8, 2017, Proceedings*, volume 10335 of *Lecture Notes in Computer Science*, pages 403–418. Springer, 2017. doi:10.1007/978-3-319-59776-8_32.
- [138] Ulrich Geske. Railway scheduling with declarative constraint programming. In Masanobu Umeda, Armin Wolf, Oskar Bartenstein, Ulrich Geske, Dietmar Seipel, and Osamu Takata, editors, *Declarative Programming for Knowledge Management, 16th International Conference on Applications of Declarative Programming and Knowledge Management, INAP 2005, Fukuoka, Japan, October 22-24, 2005, Revised Selected Papers*, volume 4369 of *Lecture Notes in Computer Science*, pages 117–134. Springer, 2005. doi:10.1007/11963578_10.
- [139] Katherine Giles and Willem-Jan van Hoeve. Solving a supply-delivery scheduling problem with constraint programming. In Michel Rueher, editor, *Principles and Practice of Constraint Programming - 22nd International Conference, CP 2016, Toulouse, France, September 5-9, 2016, Proceedings*, volume 9892 of *Lecture Notes in Computer Science*, pages 602–617. Springer, 2016. doi:10.1007/978-3-319-44953-1_38.
- [140] Vincent Gingras and Claude-Guy Quimper. Generalizing the edge-finder rule for the cumulative constraint. In Subbarao Kambhampati, editor, *Proceedings of the Twenty-Fifth International Joint Conference on Artificial Intelligence, IJCAI 2016, New York, NY, USA, 9-15 July 2016*, pages 3103–3109. IJCAI/AAAI Press, 2016. URL: <http://www.ijcai.org/Abstract/16/440>.
- [141] Arthur Godet. *Sur le tri de tâches pour résoudre des problèmes d’ordonnancement avec la programmation par contraintes. (On the use of tasks ordering to solve scheduling problems with constraint programming)*. PhD thesis, IMT Atlantique Bretagne Pays de la Loire, Brest, France, 2021. URL: <https://tel.archives-ouvertes.fr/tel-03681868>.
- [142] Arthur Godet, Xavier Lorca, Emmanuel Hebrard, and Gilles Simonin. Using approximation within constraint programming to solve the parallel machine scheduling problem with additional unit resources. In *The Thirty-Fourth AAAI Conference on Artificial Intelligence, AAAI 2020, The Thirty-Second Innovative Applications of Artificial Intelligence Conference, IAAI 2020, The Tenth AAAI Symposium on Educational Advances in Artificial Intelligence, EAAI 2020, New York, NY, USA, February 7-12, 2020*, pages 1512–1519. AAAI Press, 2020. URL: <https://doi.org/10.1609/aaai.v34i02.5510>, doi:10.1609/AAAI.V34I02.5510.

- [143] Vikas Goel, M. Slusky, Willem-Jan van Hoeve, Kevin C. Furman, and Yufen Shao. Constraint programming for LNG ship scheduling and inventory management. *Eur. J. Oper. Res.*, 241(3):662–673, 2015. URL: <https://doi.org/10.1016/j.ejor.2014.09.048>, doi:10.1016/J.EJOR.2014.09.048.
- [144] Burak Gökgür, Brahim Hnich, and Selin Özpeynirci. Parallel machine scheduling with tool loading: a constraint programming approach. *Int. J. Prod. Res.*, 56(16):5541–5557, 2018. doi:10.1080/00207543.2017.1421781.
- [145] Adrian Goldwaser and Andreas Schutt. Optimal torpedo scheduling. In J. Christopher Beck, editor, *Principles and Practice of Constraint Programming - 23rd International Conference, CP 2017, Melbourne, VIC, Australia, August 28 - September 1, 2017, Proceedings*, volume 10416 of *Lecture Notes in Computer Science*, pages 338–353. Springer, 2017. doi:10.1007/978-3-319-66158-2_22.
- [146] Hans-Joachim Goltz. Reducing domains for search in CLP(FD) and its application to job-shop scheduling. In Ugo Montanari and Francesca Rossi, editors, *Principles and Practice of Constraint Programming - CP'95, First International Conference, CP'95, Cassis, France, September 19-22, 1995, Proceedings*, volume 976 of *Lecture Notes in Computer Science*, pages 549–562. Springer, 1995. doi:10.1007/3-540-60299-2_33.
- [147] Carla P. Gomes, Willem Jan van Hoeve, and Bart Selman. Constraint programming for distributed planning and scheduling. In *Distributed Plan and Schedule Management, Papers from the 2006 AAAI Spring Symposium, Technical Report SS-06-04, Stanford, California, USA, March 27-29, 2006*, pages 157–158. AAAI, 2006. URL: <http://www.aaai.org/Library/Symposia/Spring/2006/ss06-04-024.php>.
- [148] Diarmuid Grimes and Emmanuel Hebrard. Job shop scheduling with setup times and maximal time-lags: A simple constraint programming approach. In Andrea Lodi, Michela Milano, and Paolo Toth, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, 7th International Conference, CPAIOR 2010, Bologna, Italy, June 14-18, 2010. Proceedings*, volume 6140 of *Lecture Notes in Computer Science*, pages 147–161. Springer, 2010. doi:10.1007/978-3-642-13520-0_19.
- [149] Diarmuid Grimes and Emmanuel Hebrard. Models and strategies for variants of the job shop scheduling problem. In Jimmy Ho-Man Lee, editor, *Principles and Practice of Constraint Programming - CP 2011 - 17th International Conference, CP 2011, Perugia, Italy, September 12-16, 2011. Proceedings*, volume 6876 of *Lecture Notes in Computer Science*, pages 356–372. Springer, 2011. doi:10.1007/978-3-642-23786-7_28.
- [150] Diarmuid Grimes, Emmanuel Hebrard, and Arnaud Malapert. Closing the open shop: Contradicting conventional wisdom. In Ian P. Gent, editor, *Principles and Practice of Constraint Programming - CP 2009, 15th International Conference, CP 2009, Lisbon, Portugal, September 20-24, 2009, Proceedings*, volume 5732 of *Lecture Notes in Computer Science*, pages 400–408. Springer, 2009. doi:10.1007/978-3-642-04244-7_33.
- [151] Diarmuid Grimes, Georgiana Ifrim, Barry O’Sullivan, and Helmut Simonis. Analyzing the impact of electricity price forecasting on energy cost-aware scheduling. *Sustain. Comput. Informatics Syst.*, 4(4):276–291, 2014. URL: <https://doi.org/10.1016/j.suscom.2014.08.009>, doi:10.1016/J.SUSCOM.2014.08.009.
- [152] Lucas Groleaz, Samba Ndojh Ndiaye, and Christine Solnon. ACO with automatic parameter selection for a scheduling problem with a group cumulative constraint. In Carlos Artemio Coello Coello, editor, *GECCO '20: Genetic and Evolutionary Computation Conference, Cancún Mexico, July 8-12, 2020*, pages 13–21. ACM, 2020. doi:10.1145/3377930.3389818.
- [153] Lucas Groleaz, Samba Ndojh Ndiaye, and Christine Solnon. Solving the group cumulative scheduling problem with CPO and ACO. In Helmut Simonis, editor, *Principles and Practice of Constraint Programming - 26th International Conference, CP 2020, Louvain-la-Neuve, Belgium, September 7-11, 2020, Proceedings*, volume 12333 of *Lecture Notes in Computer Science*, pages 620–636. Springer, 2020. doi:10.1007/978-3-030-58475-7_36.
- [154] Flavius Gruian and Krzysztof Kuchcinski. Operation binding and scheduling for low power using constraint logic programming. In *24th EUROMICRO '98 Conference, Engineering Systems and Software for the Next Decade, 25-27 August 1998, Vasteras, Sweden*, pages 10083–10090. IEEE Computer Society, 1998. doi:10.1109/EURMIC.1998.711781.

- [155] Hanyu Gu, Andreas Schutt, and Peter J. Stuckey. A lagrangian relaxation based forward-backward improvement heuristic for maximising the net present value of resource-constrained projects. In Carla P. Gomes and Meinolf Sellmann, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, 10th International Conference, CPAIOR 2013, Yorktown Heights, NY, USA, May 18-22, 2013. Proceedings*, volume 7874 of *Lecture Notes in Computer Science*, pages 340–346. Springer, 2013. doi:10.1007/978-3-642-38171-3_24.
- [156] Seyda Gür, Mehmet Pinarbasi, Hacı Mehmet Alakas, and Tamer Eren. Operating room scheduling with surgical team: a new approach with constraint programming and goal programming. *Central Eur. J. Oper. Res.*, 31(4):1061–1085, 2023. URL: <https://doi.org/10.1007/s10100-022-00835-z>, doi:10.1007/S10100-022-00835-Z.
- [157] Nizar El Hachemi, Michel Gendreau, and Louis-Martin Rousseau. A hybrid constraint programming approach to the log-truck scheduling problem. *Ann. Oper. Res.*, 184(1):163–178, 2011. URL: <https://doi.org/10.1007/s10479-010-0698-x>, doi:10.1007/S10479-010-0698-X.
- [158] Claire Hanen, Alix Munier Kordon, and Theo Pedersen. Two deadline reduction algorithms for scheduling dependent tasks on parallel processors. In Peter J. Stuckey, editor, *Integration of Constraint Programming, Artificial Intelligence, and Operations Research - 18th International Conference, CPAIOR 2021, Vienna, Austria, July 5-8, 2021, Proceedings*, volume 12735 of *Lecture Notes in Computer Science*, pages 214–230. Springer, 2021. doi:10.1007/978-3-030-78230-6_14.
- [159] Viktoria A. Hauder, Andreas Beham, Sebastian Raggl, Sophie N. Parragh, and Michael Affenzeller. On constraint programming for a new flexible project scheduling problem with resource constraints. *CoRR*, abs/1902.09244, 2019. URL: <http://arxiv.org/abs/1902.09244>, arXiv:1902.09244.
- [160] Shan He, Mark Wallace, Graeme Gange, Ariel Liebman, and Campbell Wilson. A fast and scalable algorithm for scheduling large numbers of devices under real-time pricing. In John N. Hooker, editor, *Principles and Practice of Constraint Programming - 24th International Conference, CP 2018, Lille, France, August 27-31, 2018, Proceedings*, volume 11008 of *Lecture Notes in Computer Science*, pages 649–666. Springer, 2018. doi:10.1007/978-3-319-98334-9_42.
- [161] Emmanuel Hebrard, Paul Tyler, and Toby Walsh. Computing super-schedules. In Peter van Beek, editor, *Principles and Practice of Constraint Programming - CP 2005, 11th International Conference, CP 2005, Sitges, Spain, October 1-5, 2005, Proceedings*, volume 3709 of *Lecture Notes in Computer Science*, pages 879–879. Springer, 2005. doi:10.1007/11564751_117.
- [162] Aliza R. Heching and John N. Hooker. Scheduling home hospice care with logic-based benders decomposition. In Claude-Guy Quimper, editor, *Integration of AI and OR Techniques in Constraint Programming - 13th International Conference, CPAIOR 2016, Banff, AB, Canada, May 29 - June 1, 2016, Proceedings*, volume 9676 of *Lecture Notes in Computer Science*, pages 187–197. Springer, 2016. doi:10.1007/978-3-319-33954-2_14.
- [163] Stefan Heinz and J. Christopher Beck. Reconsidering mixed integer programming and mip-based hybrids for scheduling. In Nicolas Beldiceanu, Narendra Jussien, and Eric Pinson, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems - 9th International Conference, CPAIOR 2012, Nantes, France, May 28 - June 1, 2012. Proceedings*, volume 7298 of *Lecture Notes in Computer Science*, pages 211–227. Springer, 2012. doi:10.1007/978-3-642-29828-8_14.
- [164] Stefan Heinz, Wen-Yang Ku, and J. Christopher Beck. Recent improvements using constraint integer programming for resource allocation and scheduling. In Carla P. Gomes and Meinolf Sellmann, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, 10th International Conference, CPAIOR 2013, Yorktown Heights, NY, USA, May 18-22, 2013. Proceedings*, volume 7874 of *Lecture Notes in Computer Science*, pages 12–27. Springer, 2013. doi:10.1007/978-3-642-38171-3_2.
- [165] Stefan Heinz, Thomas Schlechte, Rüdiger Stephan, and Michael Winkler. Solving steel mill slab design problems. *Constraints An Int. J.*, 17(1):39–50, 2012. URL: <https://doi.org/10.1007/s10601-011-9113-8>, doi:10.1007/S10601-011-9113-8.

- [166] Stefan Heinz and Jens Schulz. Explanations for the cumulative constraint: An experimental study. In Panos M. Pardalos and Steffen Rebennack, editors, *Experimental Algorithms - 10th International Symposium, SEA 2011, Kolimpari, Chania, Crete, Greece, May 5-7, 2011. Proceedings*, volume 6630 of *Lecture Notes in Computer Science*, pages 400–409. Springer, 2011. doi:10.1007/978-3-642-20662-7_34.
- [167] Stefan Heinz, Jens Schulz, and J. Christopher Beck. Using dual presolving reductions to reformulate cumulative constraints. *Constraints An Int. J.*, 18(2):166–201, 2013. URL: <https://doi.org/10.1007/s10601-012-9136-9>, doi:10.1007/S10601-012-9136-9.
- [168] Vilém Heinz, Antonín Novák, Marek Vlk, and Zdenek Hanzálek. Constraint programming and constructive heuristics for parallel machine scheduling with sequence-dependent setups and common servers. *Comput. Ind. Eng.*, 172(Part):108586, 2022. URL: <https://doi.org/10.1016/j.cie.2022.108586>, doi:10.1016/J.CIE.2022.108586.
- [169] Vilém Heinz, Antonín Novák, Marek Vlk, and Zdenek Hanzálek. Constraint programming and constructive heuristics for parallel machine scheduling with sequence-dependent setups and common servers. *CoRR*, abs/2305.19888, 2023. URL: <https://doi.org/10.48550/arXiv.2305.19888>, arXiv:2305.19888, doi:10.48550/ARXIV.2305.19888.
- [170] Susanne Heipcke, Yves Colombani, Cristina C. B. Cavalcante, and Cid C. de Souza. Scheduling under labour resource constraints. *Constraints An Int. J.*, 5(4):415–422, 2000. doi:10.1023/A:1009860311452.
- [171] Pascal Van Hentenryck and Laurent Michel. Scheduling abstractions for local search. In Jean-Charles Régin and Michel Rueher, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, First International Conference, CPAIOR 2004, Nice, France, April 20-22, 2004, Proceedings*, volume 3011 of *Lecture Notes in Computer Science*, pages 319–334. Springer, 2004. doi:10.1007/978-3-540-24664-0_22.
- [172] Pascal Van Hentenryck and Laurent Michel. The steel mill slab design problem revisited. In Laurent Perron and Michael A. Trick, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, 5th International Conference, CPAIOR 2008, Paris, France, May 20-23, 2008, Proceedings*, volume 5015 of *Lecture Notes in Computer Science*, pages 377–381. Springer, 2008. doi:10.1007/978-3-540-68155-7_41.
- [173] Fabien Hermenier, Sophie Demasse, and Xavier Lorca. Bin repacking scheduling in virtualized datacenters. In Jimmy Ho-Man Lee, editor, *Principles and Practice of Constraint Programming - CP 2011 - 17th International Conference, CP 2011, Perugia, Italy, September 12-16, 2011. Proceedings*, volume 6876 of *Lecture Notes in Computer Science*, pages 27–41. Springer, 2011. doi:10.1007/978-3-642-23786-7_5.
- [174] Alessandro Hill, Jordan Ticktin, and Thomas W. M. Vossen. A computational study of constraint programming approaches for resource-constrained project scheduling with autonomous learning effects. In Peter J. Stuckey, editor, *Integration of Constraint Programming, Artificial Intelligence, and Operations Research - 18th International Conference, CPAIOR 2021, Vienna, Austria, July 5-8, 2021, Proceedings*, volume 12735 of *Lecture Notes in Computer Science*, pages 26–44. Springer, 2021. doi:10.1007/978-3-030-78230-6_2.
- [175] Te-Wei Ho, Jia-Sheng Yao, Yao-Ting Chang, Feipei Lai, Jui-Fen Lai, Sue-Min Chu, Wan-Chung Liao, and Han-Mo Chiu. A platform for dynamic optimal nurse scheduling based on integer linear programming along with multiple criteria constraints. In *Proceedings of the 2018 Artificial Intelligence and Cloud Computing Conference, AICCC 2018, Tokyo, Japan, December 21-23, 2018*, pages 145–150. ACM, 2018. doi:10.1145/3299819.3299825.
- [176] John N. Hooker. A hybrid method for planning and scheduling. In Mark Wallace, editor, *Principles and Practice of Constraint Programming - CP 2004, 10th International Conference, CP 2004, Toronto, Canada, September 27 - October 1, 2004, Proceedings*, volume 3258 of *Lecture Notes in Computer Science*, pages 305–316. Springer, 2004. doi:10.1007/978-3-540-30201-8_24.
- [177] John N. Hooker. A hybrid method for the planning and scheduling. *Constraints An Int. J.*, 10(4):385–401, 2005. URL: <https://doi.org/10.1007/s10601-005-2812-2>, doi:10.1007/S10601-005-2812-2.

- [178] John N. Hooker. Planning and scheduling to minimize tardiness. In Peter van Beek, editor, *Principles and Practice of Constraint Programming - CP 2005, 11th International Conference, CP 2005, Sitges, Spain, October 1-5, 2005, Proceedings*, volume 3709 of *Lecture Notes in Computer Science*, pages 314–327. Springer, 2005. doi:10.1007/11564751_25.
- [179] John N. Hooker. An integrated method for planning and scheduling to minimize tardiness. *Constraints An Int. J.*, 11(2-3):139–157, 2006. URL: <https://doi.org/10.1007/s10601-006-8060-2>, doi:10.1007/S10601-006-8060-2.
- [180] John N. Hooker. Job sequencing bounds from decision diagrams. In J. Christopher Beck, editor, *Principles and Practice of Constraint Programming - 23rd International Conference, CP 2017, Melbourne, VIC, Australia, August 28 - September 1, 2017, Proceedings*, volume 10416 of *Lecture Notes in Computer Science*, pages 565–578. Springer, 2017. doi:10.1007/978-3-319-66158-2_36.
- [181] John N. Hooker and Hong Yan. A relaxation of the cumulative constraint. In Pascal Van Hentenryck, editor, *Principles and Practice of Constraint Programming - CP 2002, 8th International Conference, CP 2002, Ithaca, NY, USA, September 9-13, 2002, Proceedings*, volume 2470 of *Lecture Notes in Computer Science*, pages 686–690. Springer, 2002. doi:10.1007/3-540-46135-3_46.
- [182] Vinasétan Ratheil Houndji, Pierre Schaus, Laurence A. Wolsey, and Yves Deville. The stockingcost constraint. In Barry O’Sullivan, editor, *Principles and Practice of Constraint Programming - 20th International Conference, CP 2014, Lyon, France, September 8-12, 2014. Proceedings*, volume 8656 of *Lecture Notes in Computer Science*, pages 382–397. Springer, 2014. doi:10.1007/978-3-319-10428-7_29.
- [183] Felix Hübner, Patrick Gerhards, Christian Stürck, and Rebekka Volk. Solving the nuclear dismantling project scheduling problem by combining mixed-integer and constraint programming techniques and metaheuristics. *J. Sched.*, 24(3):269–290, 2021. URL: <https://doi.org/10.1007/s10951-021-00682-x>, doi:10.1007/S10951-021-00682-X.
- [184] Georgiana Ifrim, Barry O’Sullivan, and Helmut Simonis. Properties of energy-price forecasts for scheduling. In Michela Milano, editor, *Principles and Practice of Constraint Programming - 18th International Conference, CP 2012, Québec City, QC, Canada, October 8-12, 2012. Proceedings*, volume 7514 of *Lecture Notes in Computer Science*, pages 957–972. Springer, 2012. doi:10.1007/978-3-642-33558-7_68.
- [185] Eyüp Ensar Isik, Seyda Topaloglu Yildiz, and Özge Satir Akpunar. Constraint programming models for the hybrid flow shop scheduling problem and its extensions. *Soft Comput.*, 27(24):18623–18650, 2023. URL: <https://doi.org/10.1007/s00500-023-09086-9>, doi:10.1007/S00500-023-09086-9.
- [186] Jean Jourdan, François Fages, Didier Rozzonelli, and Alain Demeure. Data alignment and task scheduling on parallel machines using concurrent constraint model-based programming. In Maurice Bruynooghe, editor, *Logic Programming, Proceedings of the 1994 International Symposium, Ithaca, New York, USA, November 13-17, 1994*, page 678. MIT Press, 1994.
- [187] Carla Juvin, Emmanuel Hebrard, Laurent Houssin, and Pierre Lopez. An efficient constraint programming approach to preemptive job shop scheduling. In Roland H. C. Yap, editor, *29th International Conference on Principles and Practice of Constraint Programming, CP 2023, August 27-31, 2023, Toronto, Canada*, volume 280 of *LIPICs*, pages 19:1–19:16. Schloss Dagstuhl - Leibniz-Zentrum für Informatik, 2023. URL: <https://doi.org/10.4230/LIPICs.CP.2023.19>, doi:10.4230/LIPICs.CP.2023.19.
- [188] Carla Juvin, Laurent Houssin, and Pierre Lopez. Constraint programming for the robust two-machine flow-shop scheduling problem with budgeted uncertainty. In André A. Ciré, editor, *Integration of Constraint Programming, Artificial Intelligence, and Operations Research - 20th International Conference, CPAIOR 2023, Nice, France, May 29 - June 1, 2023, Proceedings*, volume 13884 of *Lecture Notes in Computer Science*, pages 354–369. Springer, 2023. doi:10.1007/978-3-031-33271-5_23.

- [189] Olli Kamarainen and Hani El Sakkout. Local probing applied to scheduling. In Pascal Van Hentenryck, editor, *Principles and Practice of Constraint Programming - CP 2002, 8th International Conference, CP 2002, Ithaca, NY, USA, September 9-13, 2002, Proceedings*, volume 2470 of *Lecture Notes in Computer Science*, pages 155–171. Springer, 2002. doi:10.1007/3-540-46135-3_11.
- [190] Roger Kameugne. Propagation techniques of resource constraint for cumulative scheduling. *Constraints An Int. J.*, 20(4):506–507, 2015. URL: <https://doi.org/10.1007/s10601-015-9227-5>, doi:10.1007/S10601-015-9227-5.
- [191] Roger Kameugne, Séverine Betmbe Fetgo, Vincent Gingras, Yanick Ouellet, and Claude-Guy Quimper. Horizontally elastic not-first/not-last filtering algorithm for cumulative resource constraint. In Willem Jan van Hoeve, editor, *Integration of Constraint Programming, Artificial Intelligence, and Operations Research - 15th International Conference, CPAIOR 2018, Delft, The Netherlands, June 26-29, 2018, Proceedings*, volume 10848 of *Lecture Notes in Computer Science*, pages 316–332. Springer, 2018. doi:10.1007/978-3-319-93031-2_23.
- [192] Roger Kameugne, Séverine Betmbe Fetgo, Thierry Noulamo, and Clémentin Tayou Djamégni. Horizontally elastic edge finder rule for cumulative constraint based on slack and density. In Roland H. C. Yap, editor, *29th International Conference on Principles and Practice of Constraint Programming, CP 2023, August 27-31, 2023, Toronto, Canada*, volume 280 of *LIPICs*, pages 20:1–20:17. Schloss Dagstuhl - Leibniz-Zentrum für Informatik, 2023. URL: <https://doi.org/10.4230/LIPICs.CP.2023.20>, doi:10.4230/LIPICs.CP.2023.20.
- [193] Roger Kameugne, Laure Pauline Fotso, Joseph D. Scott, and Youcheu Ngo-Kateu. A quadratic edge-finding filtering algorithm for cumulative resource constraints. In Jimmy Ho-Man Lee, editor, *Principles and Practice of Constraint Programming - CP 2011 - 17th International Conference, CP 2011, Perugia, Italy, September 12-16, 2011. Proceedings*, volume 6876 of *Lecture Notes in Computer Science*, pages 478–492. Springer, 2011. doi:10.1007/978-3-642-23786-7_37.
- [194] Roger Kameugne, Laure Pauline Fotso, Joseph D. Scott, and Youcheu Ngo-Kateu. A quadratic edge-finding filtering algorithm for cumulative resource constraints. *Constraints An Int. J.*, 19(3):243–269, 2014. URL: <https://doi.org/10.1007/s10601-013-9157-z>, doi:10.1007/S10601-013-9157-Z.
- [195] John J. Kanet, Sanjay Ahire, and Michael F. Gorman. Constraint programming for scheduling. In Joseph Y.-T. Leung, editor, *Handbook of Scheduling - Algorithms, Models, and Performance Analysis*. Chapman and Hall/CRC, 2004. URL: <http://www.crcnetbase.com/doi/abs/10.1201/9780203489802.ch47>, doi:10.1201/9780203489802.CH47.
- [196] Elena Kelareva, Kevin Tierney, and Philip Kilby. CP methods for scheduling and routing with time-dependent task costs. In Carla P. Gomes and Meinolf Sellmann, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, 10th International Conference, CPAIOR 2013, Yorktown Heights, NY, USA, May 18-22, 2013. Proceedings*, volume 7874 of *Lecture Notes in Computer Science*, pages 111–127. Springer, 2013. doi:10.1007/978-3-642-38171-3_8.
- [197] Jan Kelbel and Zdenek Hanzálek. Solving production scheduling with earliness/tardiness penalties by constraint programming. *J. Intell. Manuf.*, 22(4):553–562, 2011. URL: <https://doi.org/10.1007/s10845-009-0318-2>, doi:10.1007/S10845-009-0318-2.
- [198] András Kéri and Tamás Kis. Computing tight time windows for RCPSPWET with the primal-dual method. In Pascal Van Hentenryck and Laurence A. Wolsey, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, 4th International Conference, CPAIOR 2007, Brussels, Belgium, May 23-26, 2007, Proceedings*, volume 4510 of *Lecture Notes in Computer Science*, pages 127–140. Springer, 2007. doi:10.1007/978-3-540-72397-4_10.
- [199] Ghada El Khayat, André Langevin, and Diane Riopel. Integrated production and material handling scheduling using mathematical programming and constraint programming. *Eur. J. Oper. Res.*, 175(3):1818–1832, 2006. URL: <https://doi.org/10.1016/j.ejor.2005.02.077>, doi:10.1016/J.EJOR.2005.02.077.

- [200] Mohand Ou Idir Khemmoudj, Marc Porcheron, and Hachemi Bennaceur. When constraint programming and local search solve the scheduling problem of electricité de france nuclear power plant outages. In Frédéric Benhamou, editor, *Principles and Practice of Constraint Programming - CP 2006, 12th International Conference, CP 2006, Nantes, France, September 25-29, 2006, Proceedings*, volume 4204 of *Lecture Notes in Computer Science*, pages 271–283. Springer, 2006. doi:10.1007/11889205_21.
- [201] Dongyun Kim, Yeonjun Choi, Kyungduk Moon, Myungho Lee, Kangbok Lee, and Michael L. Pinedo. Iterated greedy constraint programming for scheduling steel-making continuous casting. In André A. Ciré, editor, *Integration of Constraint Programming, Artificial Intelligence, and Operations Research - 20th International Conference, CPAIOR 2023, Nice, France, May 29 - June 1, 2023, Proceedings*, volume 13884 of *Lecture Notes in Computer Science*, pages 477–492. Springer, 2023. doi:10.1007/978-3-031-33271-5_31.
- [202] Christian Klanke, Dominik R. Bleidorn, Vassilios Yfantis, and Sebastian Engell. Combining constraint programming and temporal decomposition approaches - scheduling of an industrial formulation plant. In Peter J. Stuckey, editor, *Integration of Constraint Programming, Artificial Intelligence, and Operations Research - 18th International Conference, CPAIOR 2021, Vienna, Austria, July 5-8, 2021, Proceedings*, volume 12735 of *Lecture Notes in Computer Science*, pages 133–148. Springer, 2021. doi:10.1007/978-3-030-78230-6_9.
- [203] Lucas Kletzander and Nysret Musliu. A multi-stage simulated annealing algorithm for the torpedo scheduling problem. In Domenico Salvagnin and Michele Lombardi, editors, *Integration of AI and OR Techniques in Constraint Programming - 14th International Conference, CPAIOR 2017, Padua, Italy, June 5-8, 2017, Proceedings*, volume 10335 of *Lecture Notes in Computer Science*, pages 344–358. Springer, 2017. doi:10.1007/978-3-319-59776-8_28.
- [204] Jana Koehler, Josef Bürgler, Urs Fontana, Etienne Fux, Florian A. Herzog, Marc Pouly, Sophia Saller, Anastasia Salyaeva, Peter Scheiblechner, and Kai Waelti. Cable tree wiring - benchmarking solvers on a real-world scheduling problem with a variety of precedence constraints. *Constraints An Int. J.*, 26(1):56–106, 2021. URL: <https://doi.org/10.1007/s10601-021-09321-w>, doi:10.1007/S10601-021-09321-W.
- [205] Ouajdi Korbaa, Pascal Yim, and Jean-Claude Gentina. Solving transient scheduling problem for cyclic production using timed petri nets and constraint programming. In *5th European Control Conference, ECC 1999, Karlsruhe, Germany, August 31 - September 3, 1999*, pages 3938–3945. IEEE, 1999. doi:10.23919/ECC.1999.7099947.
- [206] Ouajdi Korbaa, Pascal Yim, and Jean-Claude Gentina. Solving transient scheduling problems with constraint programming. *Eur. J. Control*, 6(6):511–520, 2000. doi:10.1016/S0947-3580(00)71113-7.
- [207] Sebastian Kosch and J. Christopher Beck. A new MIP model for parallel-batch scheduling with non-identical job sizes. In Helmut Simonis, editor, *Integration of AI and OR Techniques in Constraint Programming - 11th International Conference, CPAIOR 2014, Cork, Ireland, May 19-23, 2014. Proceedings*, volume 8451 of *Lecture Notes in Computer Science*, pages 55–70. Springer, 2014. doi:10.1007/978-3-319-07046-9_5.
- [208] András Kovács and J. Christopher Beck. A global constraint for total weighted completion time for cumulative resources. *Eng. Appl. Artif. Intell.*, 21(5):691–697, 2008. URL: <https://doi.org/10.1016/j.engappai.2008.03.004>, doi:10.1016/J.ENGAPPAI.2008.03.004.
- [209] András Kovács and J. Christopher Beck. A global constraint for total weighted completion time for unary resources. *Constraints An Int. J.*, 16(1):100–123, 2011. URL: <https://doi.org/10.1007/s10601-009-9088-x>, doi:10.1007/S10601-009-9088-X.
- [210] András Kovács, Péter Egri, Tamás Kis, and József Váncza. Proterv-ii: An integrated production planning and scheduling system. In Peter van Beek, editor, *Principles and Practice of Constraint Programming - CP 2005, 11th International Conference, CP 2005, Sitges, Spain, October 1-5, 2005, Proceedings*, volume 3709 of *Lecture Notes in Computer Science*, pages 880–880. Springer, 2005. doi:10.1007/11564751_118.

- [211] András Kovács and Tamás Kis. Constraint programming approach to a bilevel scheduling problem. *Constraints An Int. J.*, 16(3):317–340, 2011. URL: <https://doi.org/10.1007/s10601-010-9102-3>, doi:10.1007/S10601-010-9102-3.
- [212] András Kovács and József Váncza. Completable partial solutions in constraint programming and constraint-based scheduling. In Mark Wallace, editor, *Principles and Practice of Constraint Programming - CP 2004, 10th International Conference, CP 2004, Toronto, Canada, September 27 - October 1, 2004, Proceedings*, volume 3258 of *Lecture Notes in Computer Science*, pages 332–346. Springer, 2004. doi:10.1007/978-3-540-30201-8_26.
- [213] András Kovács and József Váncza. Progressive solutions: A simple but efficient dominance rule for practical RCPSP. In J. Christopher Beck and Barbara M. Smith, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, Third International Conference, CPAIOR 2006, Cork, Ireland, May 31 - June 2, 2006, Proceedings*, volume 3990 of *Lecture Notes in Computer Science*, pages 139–151. Springer, 2006. doi:10.1007/11757375_13.
- [214] Benjamin Kovács, Pierre Tassel, Wolfgang Kohlenbrein, Philipp Schrott-Kostwein, and Martin Gebser. Utilizing constraint optimization for industrial machine workload balancing. In Laurent D. Michel, editor, *27th International Conference on Principles and Practice of Constraint Programming, CP 2021, Montpellier, France (Virtual Conference), October 25-29, 2021*, volume 210 of *LIPICs*, pages 36:1–36:17. Schloss Dagstuhl - Leibniz-Zentrum für Informatik, 2021. URL: <https://doi.org/10.4230/LIPICs.CP.2021.36>, doi:10.4230/LIPICs.CP.2021.36.
- [215] Stefan Kreter, Andreas Schutt, and Peter J. Stuckey. Modeling and solving project scheduling with calendars. In Gilles Pesant, editor, *Principles and Practice of Constraint Programming - 21st International Conference, CP 2015, Cork, Ireland, August 31 - September 4, 2015, Proceedings*, volume 9255 of *Lecture Notes in Computer Science*, pages 262–278. Springer, 2015. doi:10.1007/978-3-319-23219-5_19.
- [216] Stefan Kreter, Andreas Schutt, and Peter J. Stuckey. Using constraint programming for solving rcpsp/max-cal. *Constraints An Int. J.*, 22(3):432–462, 2017. URL: <https://doi.org/10.1007/s10601-016-9266-6>, doi:10.1007/S10601-016-9266-6.
- [217] Krzysztof Kuchcinski and Christophe Wolinski. Global approach to assignment and scheduling of complex behaviors based on HCDG and constraint programming. *J. Syst. Archit.*, 49(12-15):489–503, 2003. doi:10.1016/S1383-7621(03)00075-4.
- [218] T. K. Satish Kumar. Incremental computation of resource-envelopes in producer-consumer models. In Francesca Rossi, editor, *Principles and Practice of Constraint Programming - CP 2003, 9th International Conference, CP 2003, Kinsale, Ireland, September 29 - October 3, 2003, Proceedings*, volume 2833 of *Lecture Notes in Computer Science*, pages 664–678. Springer, 2003. doi:10.1007/978-3-540-45193-8_45.
- [219] Philippe Laborie. IBM ILOG CP optimizer for detailed scheduling illustrated on three problems. In Willem Jan van Hoeve and John N. Hooker, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, 6th International Conference, CPAIOR 2009, Pittsburgh, PA, USA, May 27-31, 2009, Proceedings*, volume 5547 of *Lecture Notes in Computer Science*, pages 148–162. Springer, 2009. doi:10.1007/978-3-642-01929-6_12.
- [220] Philippe Laborie. An update on the comparison of mip, CP and hybrid approaches for mixed resource allocation and scheduling. In Willem Jan van Hoeve, editor, *Integration of Constraint Programming, Artificial Intelligence, and Operations Research - 15th International Conference, CPAIOR 2018, Delft, The Netherlands, June 26-29, 2018, Proceedings*, volume 10848 of *Lecture Notes in Computer Science*, pages 403–411. Springer, 2018. doi:10.1007/978-3-319-93031-2_29.
- [221] Philippe Laborie, Jerome Rogerie, Paul Shaw, and Petr Vilím. IBM ILOG CP optimizer for scheduling - 20+ years of scheduling with constraints at IBM/ILOG. *Constraints An Int. J.*, 23(2):210–250, 2018. URL: <https://doi.org/10.1007/s10601-018-9281-x>, doi:10.1007/S10601-018-9281-X.
- [222] Marie-Louise Lackner, Christoph Mrkvicka, Nysret Musliu, Daniel Walkiewicz, and Felix Winter. Minimizing cumulative batch processing time for an industrial oven scheduling problem. In Laurent D. Michel, editor, *27th International Conference on Principles and Practice of Constraint Programming, CP 2021, Montpellier,*

- France (Virtual Conference), October 25-29, 2021, volume 210 of *LIPICs*, pages 37:1–37:18. Schloss Dagstuhl - Leibniz-Zentrum für Informatik, 2021. URL: <https://doi.org/10.4230/LIPICs.CP.2021.37>, doi:10.4230/LIPICs.CP.2021.37.
- [223] Marie-Louise Lackner, Christoph Mrkvicka, Nysret Musliu, Daniel Walkiewicz, and Felix Winter. Exact methods for the oven scheduling problem. *Constraints An Int. J.*, 28(2):320–361, 2023. URL: <https://doi.org/10.1007/s10601-023-09347-2>, doi:10.1007/S10601-023-09347-2.
- [224] Asma Lahimer, Pierre Lopez, and Mohamed Haouari. Climbing depth-bounded adjacent discrepancy search for solving hybrid flow shop scheduling problems with multiprocessor tasks. In Tobias Achterberg and J. Christopher Beck, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems - 8th International Conference, CPAIOR 2011, Berlin, Germany, May 23-27, 2011. Proceedings*, volume 6697 of *Lecture Notes in Computer Science*, pages 117–130. Springer, 2011. doi:10.1007/978-3-642-21311-3_12.
- [225] Hoong Chuin Lau, Kong Wei Lye, and Viet Bang Nguyen. A combinatorial auction framework for solving decentralized scheduling problems (extended abstract). In Laurent Perron and Michael A. Trick, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, 5th International Conference, CPAIOR 2008, Paris, France, May 20-23, 2008, Proceedings*, volume 5015 of *Lecture Notes in Computer Science*, pages 333–337. Springer, 2008. doi:10.1007/978-3-540-68155-7_33.
- [226] Colin J. Layfield. *A constraint programming pre-processor for duty scheduling*. PhD thesis, University of Leeds, UK, 2002. URL: <http://etheses.whiterose.ac.uk/1301/>.
- [227] Arnaud Letort, Nicolas Beldiceanu, and Mats Carlsson. A scalable sweep algorithm for the cumulative constraint. In Michela Milano, editor, *Principles and Practice of Constraint Programming - 18th International Conference, CP 2012, Québec City, QC, Canada, October 8-12, 2012. Proceedings*, volume 7514 of *Lecture Notes in Computer Science*, pages 439–454. Springer, 2012. doi:10.1007/978-3-642-33558-7_33.
- [228] Arnaud Letort, Mats Carlsson, and Nicolas Beldiceanu. A synchronized sweep algorithm for the k -dimensional cumulative constraint. In Carla P. Gomes and Meinolf Sellmann, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, 10th International Conference, CPAIOR 2013, Yorktown Heights, NY, USA, May 18-22, 2013. Proceedings*, volume 7874 of *Lecture Notes in Computer Science*, pages 144–159. Springer, 2013. doi:10.1007/978-3-642-38171-3_10.
- [229] Arnaud Letort, Mats Carlsson, and Nicolas Beldiceanu. Synchronized sweep algorithms for scalable scheduling constraints. *Constraints An Int. J.*, 20(2):183–234, 2015. URL: <https://doi.org/10.1007/s10601-014-9172-8>, doi:10.1007/S10601-014-9172-8.
- [230] Xingyang Li, Jun Fu, Zixi Jia, Ziyan Zhao, Siyi Li, and Shixin Liu. Constraint programming for a novel integrated optimization of blocking job shop scheduling and variable-speed transfer robot assignment. In *IEEE International Conference on Networking, Sensing and Control, ICNSC 2022, Shanghai, China, December 15-18, 2022*, pages 1–6. IEEE, 2022. doi:10.1109/ICNSC55942.2022.10004158.
- [231] Olivier Liess and Philippe Michelon. A constraint programming approach for the resource-constrained project scheduling problem. *Ann. Oper. Res.*, 157(1):25–36, 2008. URL: <https://doi.org/10.1007/s10479-007-0188-y>, doi:10.1007/S10479-007-0188-Y.
- [232] Andrew Lim, Brian Rodrigues, and Zhou Xu. Solving the crane scheduling problem using intelligent search schemes. In Mark Wallace, editor, *Principles and Practice of Constraint Programming - CP 2004, 10th International Conference, CP 2004, Toronto, Canada, September 27 - October 1, 2004, Proceedings*, volume 3258 of *Lecture Notes in Computer Science*, pages 747–751. Springer, 2004. doi:10.1007/978-3-540-30201-8_59.
- [233] BoonPing Lim, Hassan L. Hijazi, Sylvie Thiébaux, and Menkes van den Briel. Online hvac-aware occupancy scheduling with adaptive temperature control. In Michel Rueher, editor, *Principles and Practice of Constraint Programming - 22nd International Conference, CP 2016, Toulouse, France, September 5-9, 2016, Proceedings*, volume 9892 of *Lecture Notes in Computer Science*, pages 683–700. Springer, 2016. doi:10.1007/978-3-319-44953-1_43.

- [234] BoonPing Lim, Menkes van den Briel, Sylvie Thiébaux, Russell Bent, and Scott Backhaus. Large neighborhood search for energy aware meeting scheduling in smart buildings. In Laurent Michel, editor, *Integration of AI and OR Techniques in Constraint Programming - 12th International Conference, CPAIOR 2015, Barcelona, Spain, May 18-22, 2015, Proceedings*, volume 9075 of *Lecture Notes in Computer Science*, pages 240–254. Springer, 2015. doi:10.1007/978-3-319-18008-3_17.
- [235] Kamol Limtanyakul. Scheduling of tests on vehicle prototypes using constraint and integer programming. In Jörg Kalcsics and Stefan Nickel, editors, *Operations Research, Proceedings 2007, Selected Papers of the Annual International Conference of the German Operations Research Society (GOR), Saarbrücken, Germany, September 5-7, 2007*, Operations Research Proceedings, pages 421–426. Springer, 2007. doi:10.1007/978-3-540-77903-2_65.
- [236] Kamol Limtanyakul and Uwe Schwiegelshohn. Improvements of constraint programming and hybrid methods for scheduling of tests on vehicle prototypes. *Constraints An Int. J.*, 17(2):172–203, 2012. URL: <https://doi.org/10.1007/s10601-012-9118-y>, doi:10.1007/S10601-012-9118-Y.
- [237] Ke Liu, Sven Löffler, and Petra Hofstedt. Solving the talent scheduling problem by parallel constraint programming. In John MacIntyre, Ilias Maglogiannis, Lazaros S. Iliadis, and Elias Pimenidis, editors, *Artificial Intelligence Applications and Innovations - 15th IFIP WG 12.5 International Conference, AIAI 2019, Hersonissos, Crete, Greece, May 24-26, 2019, Proceedings*, volume 559 of *IFIP Advances in Information and Communication Technology*, pages 236–244. Springer, 2019. doi:10.1007/978-3-030-19823-7_19.
- [238] Tong Liu, Roberto Di Cosmo, Maurizio Gabbrielli, and Jacopo Mauro. Nightsplitter: A scheduling tool to optimize (sub)group activities. In J. Christopher Beck, editor, *Principles and Practice of Constraint Programming - 23rd International Conference, CP 2017, Melbourne, VIC, Australia, August 28 - September 1, 2017, Proceedings*, volume 10416 of *Lecture Notes in Computer Science*, pages 370–386. Springer, 2017. doi:10.1007/978-3-319-66158-2_24.
- [239] Yuechang Liu and Yunfei Jiang. LP-TPOP: integrating planning and scheduling through constraint programming. In Qiang Yang and Geoffrey I. Webb, editors, *PRICAI 2006: Trends in Artificial Intelligence, 9th Pacific Rim International Conference on Artificial Intelligence, Guilin, China, August 7-11, 2006, Proceedings*, volume 4099 of *Lecture Notes in Computer Science*, pages 844–848. Springer, 2006. doi:10.1007/11801603_92.
- [240] Michele Lombardi, Alessio Bonfietti, and Michela Milano. Deterministic estimation of the expected makespan of a POS under duration uncertainty. In Gilles Pesant, editor, *Principles and Practice of Constraint Programming - 21st International Conference, CP 2015, Cork, Ireland, August 31 - September 4, 2015, Proceedings*, volume 9255 of *Lecture Notes in Computer Science*, pages 279–294. Springer, 2015. doi:10.1007/978-3-319-23219-5_20.
- [241] Michele Lombardi, Alessio Bonfietti, Michela Milano, and Luca Benini. Precedence constraint posting for cyclic scheduling problems. In Tobias Achterberg and J. Christopher Beck, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems - 8th International Conference, CPAIOR 2011, Berlin, Germany, May 23-27, 2011. Proceedings*, volume 6697 of *Lecture Notes in Computer Science*, pages 137–153. Springer, 2011. doi:10.1007/978-3-642-21311-3_14.
- [242] Michele Lombardi and Michela Milano. A precedence constraint posting approach for the RCPSP with time lags and variable durations. In Ian P. Gent, editor, *Principles and Practice of Constraint Programming - CP 2009, 15th International Conference, CP 2009, Lisbon, Portugal, September 20-24, 2009, Proceedings*, volume 5732 of *Lecture Notes in Computer Science*, pages 569–583. Springer, 2009. doi:10.1007/978-3-642-04244-7_45.
- [243] Michele Lombardi and Michela Milano. Constraint based scheduling to deal with uncertain durations and self-timed execution. In David Cohen, editor, *Principles and Practice of Constraint Programming - CP 2010 - 16th International Conference, CP 2010, St. Andrews, Scotland, UK, September 6-10, 2010. Proceedings*, volume 6308 of *Lecture Notes in Computer Science*, pages 383–397. Springer, 2010. doi:10.1007/978-3-642-15396-9_32.
- [244] Michele Lombardi and Michela Milano. Optimal methods for resource allocation and scheduling: a cross-disciplinary survey. *Constraints An Int. J.*, 17(1):51–85, 2012. URL: <https://doi.org/10.1007/s10601-011-9115-6>, doi:10.1007/S10601-011-9115-6.

- [245] Tony Minoru Tamura Lopes, André A. Ciré, Cid Carvalho de Souza, and Arnaldo Vieira Moura. A hybrid model for a multiproduct pipeline planning and scheduling problem. *Constraints An Int. J.*, 15(2):151–189, 2010. URL: <https://doi.org/10.1007/s10601-009-9086-z>, doi:10.1007/S10601-009-9086-Z.
- [246] Pierre Lopez, Hassane Alla, Ouajdi Korbaa, Pascal Yim, and Jean-Claude Gentina. Discussion on: 'solving transient scheduling problems with constraint programming' by o. korbaa, p. yim, and J.-C. gentina. *Eur. J. Control*, 6(6):521–524, 2000. doi:10.1016/S0947-3580(00)71114-9.
- [247] Thomas Lorigeon, Jean-Charles Billaut, and Jean-Louis Bouquard. A dynamic programming algorithm for scheduling jobs in a two-machine open shop with an availability constraint. *J. Oper. Res. Soc.*, 53(11):1239–1246, 2002. URL: <https://doi.org/10.1057/palgrave.jors.2601421>, doi:10.1057/PALGRAVE.JORS.2601421.
- [248] Willian T. Lunardi, Ernesto G. Birgin, Philippe Laborie, Débora P. Ronconi, and Holger Voos. Mixed integer linear programming and constraint programming models for the online printing shop scheduling problem. *Comput. Oper. Res.*, 123:105020, 2020. URL: <https://doi.org/10.1016/j.cor.2020.105020>, doi:10.1016/J.COR.2020.105020.
- [249] Willian Tessaro Lunardi. *A Real-World Flexible Job Shop Scheduling Problem With Sequencing Flexibility: Mathematical Programming, Constraint Programming, and Metaheuristics*. PhD thesis, University of Luxembourg, Luxembourg City, Luxembourg, 2020. URL: <http://orbilu.uni.lu/handle/10993/43893>.
- [250] Gilles Madi-Wamba and Nicolas Beldiceanu. The taskintersection constraint. In Claude-Guy Quimper, editor, *Integration of AI and OR Techniques in Constraint Programming - 13th International Conference, CPAIOR 2016, Banff, AB, Canada, May 29 - June 1, 2016, Proceedings*, volume 9676 of *Lecture Notes in Computer Science*, pages 246–261. Springer, 2016. doi:10.1007/978-3-319-33954-2_18.
- [251] Gilles Madi-Wamba, Yunbo Li, Anne-Cécile Orgerie, Nicolas Beldiceanu, and Jean-Marc Menaud. Green energy aware scheduling problem in virtualized datacenters. In *23rd IEEE International Conference on Parallel and Distributed Systems, ICPADS 2017, Shenzhen, China, December 15-17, 2017*, pages 648–655. IEEE Computer Society, 2017. doi:10.1109/ICPADS.2017.00089.
- [252] Kai-Ling Mak, Jun Ma, and Wei Su. A constraint programming approach for production scheduling of multi-period virtual cellular manufacturing systems. In *Sixth International Conference on Natural Computation, ICNC 2010, Yantai, Shandong, China, 10-12 August 2010*, pages 4440–4444. IEEE, 2010. doi:10.1109/ICNC.2010.5583494.
- [253] Arnaud Malapert and Margaux Nattaf. A new cp-approach for a parallel machine scheduling problem with time constraints on machine qualifications. In Louis-Martin Rousseau and Kostas Stergiou, editors, *Integration of Constraint Programming, Artificial Intelligence, and Operations Research - 16th International Conference, CPAIOR 2019, Thessaloniki, Greece, June 4-7, 2019, Proceedings*, volume 11494 of *Lecture Notes in Computer Science*, pages 426–442. Springer, 2019. doi:10.1007/978-3-030-19212-9_28.
- [254] Abid M. Malik. *Constraint Programming Techniques for Optimal Instruction Scheduling*. PhD thesis, University of Waterloo, Ontario, Canada, 2008. URL: <https://hdl.handle.net/10012/3612>.
- [255] Abid M. Malik, Jim McInnes, and Peter van Beek. Optimal basic block instruction scheduling for multiple-issue processors using constraint programming. *Int. J. Artif. Intell. Tools*, 17(1):37–54, 2008. doi:10.1142/S0218213008003765.
- [256] Christos T. Maravelias and Ignacio E. Grossmann. Using MILP and CP for the scheduling of batch chemical processes. In Jean-Charles Régin and Michel Rueher, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, First International Conference, CPAIOR 2004, Nice, France, April 20-22, 2004, Proceedings*, volume 3011 of *Lecture Notes in Computer Science*, pages 1–20. Springer, 2004. doi:10.1007/978-3-540-24664-0_1.

- [257] Fae Martin, Arthur Pinkney, and Xinghuo Yu. Cane railway scheduling via constraint logic programming: Labelling order and constraints in a real-life application. *Ann. Oper. Res.*, 108(1-4):193–209, 2001. doi:10.1023/A:1016067230126.
- [258] Andrew J. Mason. Elastic constraint branching, the wedelin/carmen lagrangian heuristic and integer programming for personnel scheduling. *Ann. Oper. Res.*, 108(1-4):239–276, 2001. doi:10.1023/A:1016023415105.
- [259] Zahra Mehdizadeh-Somarin, Reza Tavakkoli-Moghaddam, Mohammad Rohaninejad, Zdenek Hanzálek, and Behdin Vahedi Nouri. A constraint programming model for a reconfigurable job shop scheduling problem with machine availability. In Erlend Alfnes, Anita Romsdal, Jan Ola Strandhagen, Gregor von Cieminski, and David Romero, editors, *Advances in Production Management Systems. Production Management Systems for Responsible Manufacturing, Service, and Logistics Futures - IFIP WG 5.7 International Conference, APMS 2023, Trondheim, Norway, September 17-21, 2023, Proceedings, Part III*, volume 691 of *IFIP Advances in Information and Communication Technology*, pages 477–490. Springer, 2023. doi:10.1007/978-3-031-43670-3_33.
- [260] Julien Menana. *Automates et programmation par contraintes pour la planification de personnel. (Automata and Constraint Programming for Personnel Scheduling Problems)*. PhD thesis, University of Nantes, France, 2011. URL: <https://tel.archives-ouvertes.fr/tel-00785838>.
- [261] Leilei Meng, Chaoyong Zhang, Yaping Ren, Biao Zhang, and Chang Lv. Mixed-integer linear programming and constraint programming formulations for solving distributed flexible job shop scheduling problem. *Comput. Ind. Eng.*, 142:106347, 2020. URL: <https://doi.org/10.1016/j.cie.2020.106347>, doi:10.1016/J.CIE.2020.106347.
- [262] Alexandre Mercier-Aubin, Jonathan Gaudreault, and Claude-Guy Quimper. Leveraging constraint scheduling: A case study to the textile industry. In Emmanuel Hebrard and Nysret Musliu, editors, *Integration of Constraint Programming, Artificial Intelligence, and Operations Research - 17th International Conference, CPAIOR 2020, Vienna, Austria, September 21-24, 2020, Proceedings*, volume 12296 of *Lecture Notes in Computer Science*, pages 334–346. Springer, 2020. doi:10.1007/978-3-030-58942-4_22.
- [263] Mahdi Mokhtarzadeh, Reza Tavakkoli-Moghaddam, Behdin Vahedi Nouri, and Azadeh Farsi. Scheduling of human-robot collaboration in assembly of printed circuit boards: a constraint programming approach. *Int. J. Comput. Integr. Manuf.*, 33(5):460–473, 2020. doi:10.1080/0951192X.2020.1736713.
- [264] Jean-Noël Monette, Yves Deville, and Pierre Dupont. A position-based propagator for the open-shop problem. In Pascal Van Hentenryck and Laurence A. Wolsey, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, 4th International Conference, CPAIOR 2007, Brussels, Belgium, May 23-26, 2007, Proceedings*, volume 4510 of *Lecture Notes in Computer Science*, pages 186–199. Springer, 2007. doi:10.1007/978-3-540-72397-4_14.
- [265] Jean-Noël Monette, Yves Deville, and Pascal Van Hentenryck. Just-in-time scheduling with constraint programming. In Alfonso Gerevini, Adele E. Howe, Amedeo Cesta, and Ioannis Refanidis, editors, *Proceedings of the 19th International Conference on Automated Planning and Scheduling, ICAPS 2009, Thessaloniki, Greece, September 19-23, 2009*. AAAI, 2009. URL: <http://aaai.org/ocs/index.php/ICAPS/ICAPS09/paper/view/712>.
- [266] Roberto Montemanni and Mauro Dell’Amico. Constraint programming models for the parallel drone scheduling vehicle routing problem. *EURO J. Comput. Optim.*, 11:100078, 2023. URL: <https://doi.org/10.1016/j.ejco.2023.100078>, doi:10.1016/J.EJCO.2023.100078.
- [267] Roberto Montemanni and Mauro Dell’Amico. Solving the parallel drone scheduling traveling salesman problem via constraint programming. *Algorithms*, 16(1):40, 2023. URL: <https://doi.org/10.3390/a16010040>, doi:10.3390/A16010040.
- [268] Morten Mossige, Arnaud Gotlieb, Helge Spieker, Hein Meling, and Mats Carlsson. Time-aware test case execution scheduling for cyber-physical systems. In J. Christopher Beck, editor, *Principles and Practice of Constraint Programming - 23rd International Conference, CP 2017, Melbourne, VIC, Australia, August 28 - September 1, 2017, Proceedings*, volume 10416 of *Lecture Notes in Computer Science*, pages 387–404. Springer, 2017. doi:10.1007/978-3-319-66158-2_25.

- [269] Arnaldo Vieira Moura, Cid C. de Souza, André A. Ciré, and Tony Minoru Tamura Lopes. Heuristics and constraint programming hybridizations for a real pipeline planning and scheduling problem. In *Proceedings of the 11th IEEE International Conference on Computational Science and Engineering, CSE 2008, São Paulo, SP, Brazil, July 16-18, 2008*, pages 455–462. IEEE Computer Society, 2008. doi:10.1109/CSE.2008.24.
- [270] Arnaldo Vieira Moura, Cid C. de Souza, André A. Ciré, and Tony Minoru Tamura Lopes. Planning and scheduling the operation of a very large oil pipeline network. In Peter J. Stuckey, editor, *Principles and Practice of Constraint Programming, 14th International Conference, CP 2008, Sydney, Australia, September 14-18, 2008. Proceedings*, volume 5202 of *Lecture Notes in Computer Science*, pages 36–51. Springer, 2008. doi:10.1007/978-3-540-85958-1_3.
- [271] David Müller, Marcus Gerhard Müller, Dominik Kress, and Erwin Pesch. An algorithm selection approach for the flexible job shop scheduling problem: Choosing constraint programming solvers through machine learning. *Eur. J. Oper. Res.*, 302(3):874–891, 2022. URL: <https://doi.org/10.1016/j.ejor.2022.01.034>, doi:10.1016/J.EJOR.2022.01.034.
- [272] Stanislav Murín and Hana Rudová. Scheduling of mobile robots using constraint programming. In Thomas Schiex and Simon de Givry, editors, *Principles and Practice of Constraint Programming - 25th International Conference, CP 2019, Stamford, CT, USA, September 30 - October 4, 2019, Proceedings*, volume 11802 of *Lecture Notes in Computer Science*, pages 456–471. Springer, 2019. doi:10.1007/978-3-030-30048-7_27.
- [273] Seán Óg Murphy, Oscar Manzano, and Kenneth N. Brown. Design and evaluation of a constraint-based energy saving and scheduling recommender system. In Gilles Pesant, editor, *Principles and Practice of Constraint Programming - 21st International Conference, CP 2015, Cork, Ireland, August 31 - September 4, 2015, Proceedings*, volume 9255 of *Lecture Notes in Computer Science*, pages 687–703. Springer, 2015. doi:10.1007/978-3-319-23219-5_47.
- [274] Nicola Muscettola. Computing the envelope for stepwise-constant resource allocations. In Pascal Van Hentenryck, editor, *Principles and Practice of Constraint Programming - CP 2002, 8th International Conference, CP 2002, Ithaca, NY, USA, September 9-13, 2002, Proceedings*, volume 2470 of *Lecture Notes in Computer Science*, pages 139–154. Springer, 2002. doi:10.1007/3-540-46135-3_10.
- [275] Margaux Nattaf, Christian Artigues, and Pierre Lopez. A hybrid exact method for a scheduling problem with a continuous resource and energy constraints. *Constraints An Int. J.*, 20(3):304–324, 2015. URL: <https://doi.org/10.1007/s10601-015-9192-z>, doi:10.1007/S10601-015-9192-Z.
- [276] Margaux Nattaf, Christian Artigues, and Pierre Lopez. Cumulative scheduling with variable task profiles and concave piecewise linear processing rate functions. *Constraints An Int. J.*, 22(4):530–547, 2017. URL: <https://doi.org/10.1007/s10601-017-9271-4>, doi:10.1007/S10601-017-9271-4.
- [277] Margaux Nattaf and Arnaud Malapert. Filtering rules for flow time minimization in a parallel machine scheduling problem. In Helmut Simonis, editor, *Principles and Practice of Constraint Programming - 26th International Conference, CP 2020, Louvain-la-Neuve, Belgium, September 7-11, 2020, Proceedings*, volume 12333 of *Lecture Notes in Computer Science*, pages 462–477. Springer, 2020. doi:10.1007/978-3-030-58475-7_27.
- [278] Su Nguyen, Dhananjay R. Thiruvady, Yuan Sun, and Mengjie Zhang. Genetic-based constraint programming for resource constrained job scheduling. *CoRR*, abs/2402.00459, 2024. URL: <https://doi.org/10.48550/arXiv.2402.00459>, arXiv:2402.00459, doi:10.48550/ARXIV.2402.00459.
- [279] Hiroki Nishikawa, Kana Shimada, Ittetsu Taniguchi, and Hiroyuki Tomiyama. Scheduling of malleable fork-join tasks with constraint programming. In *Sixth International Symposium on Computing and Networking, CANDAR 2018, Takayama, Japan, November 23-27, 2018*, pages 133–138. IEEE Computer Society, 2018. doi:10.1109/CANDAR.2018.00025.
- [280] Hiroki Nishikawa, Kana Shimada, Ittetsu Taniguchi, and Hiroyuki Tomiyama. Scheduling of malleable tasks based on constraint programming. In *TENCON 2018 - 2018 IEEE Region 10 Conference, Jeju, South Korea, October 28-31, 2018*, pages 1493–1498. IEEE, 2018. doi:10.1109/TENCON.2018.8650168.

- [281] Hiroki Nishikawa, Kana Shimada, Ittetsu Taniguchi, and Hiroyuki Tomiyama. A constraint programming approach to scheduling of malleable tasks. *Int. J. Netw. Comput.*, 9(2):131–146, 2019. URL: <http://www.ijnc.org/index.php/ijnc/article/view/201>.
- [282] Franco M. Novara, Juan M. Novas, and Gabriela P. Henning. A novel constraint programming model for large-scale scheduling problems in multiproduct multistage batch plants: Limited resources and campaign-based operation. *Comput. Chem. Eng.*, 93:101–117, 2016. URL: <https://doi.org/10.1016/j.compchemeng.2016.04.030>, doi:10.1016/J.COMPCHENG.2016.04.030.
- [283] Juan M. Novas. Production scheduling and lot streaming at flexible job-shops environments using constraint programming. *Comput. Ind. Eng.*, 136:252–264, 2019. URL: <https://doi.org/10.1016/j.cie.2019.07.011>, doi:10.1016/J.CIE.2019.07.011.
- [284] Juan M. Novas and Gabriela P. Henning. Reactive scheduling framework based on domain knowledge and constraint programming. *Comput. Chem. Eng.*, 34(12):2129–2148, 2010. URL: <https://doi.org/10.1016/j.compchemeng.2010.07.011>, doi:10.1016/J.COMPCHENG.2010.07.011.
- [285] Juan M. Novas and Gabriela P. Henning. A comprehensive constraint programming approach for the rolling horizon-based scheduling of automated wet-etch stations. *Comput. Chem. Eng.*, 42:189–205, 2012. URL: <https://doi.org/10.1016/j.compchemeng.2012.01.005>, doi:10.1016/J.COMPCHENG.2012.01.005.
- [286] Juan M. Novas and Gabriela P. Henning. Integrated scheduling of resource-constrained flexible manufacturing systems using constraint programming. *Expert Syst. Appl.*, 41(5):2286–2299, 2014. URL: <https://doi.org/10.1016/j.eswa.2013.09.026>, doi:10.1016/J.ESWA.2013.09.026.
- [287] Angelo Oddi, Nicola Policella, Amedeo Cesta, and Gabriella Cortellessa. Generating high quality schedules for a spacecraft memory downlink problem. In Francesca Rossi, editor, *Principles and Practice of Constraint Programming - CP 2003, 9th International Conference, CP 2003, Kinsale, Ireland, September 29 - October 3, 2003, Proceedings*, volume 2833 of *Lecture Notes in Computer Science*, pages 570–584. Springer, 2003. doi:10.1007/978-3-540-45193-8_39.
- [288] Pierre Ouellet and Claude-Guy Quimper. Time-table extended-edge-finding for the cumulative constraint. In Christian Schulte, editor, *Principles and Practice of Constraint Programming - 19th International Conference, CP 2013, Uppsala, Sweden, September 16-20, 2013. Proceedings*, volume 8124 of *Lecture Notes in Computer Science*, pages 562–577. Springer, 2013. doi:10.1007/978-3-642-40627-0_42.
- [289] Yanick Ouellet and Claude-Guy Quimper. A $O(n \log^2 n)$ checker and $O(n^2 \log n)$ filtering algorithm for the energetic reasoning. In Willem Jan van Hoeve, editor, *Integration of Constraint Programming, Artificial Intelligence, and Operations Research - 15th International Conference, CPAIOR 2018, Delft, The Netherlands, June 26-29, 2018, Proceedings*, volume 10848 of *Lecture Notes in Computer Science*, pages 477–494. Springer, 2018. doi:10.1007/978-3-319-93031-2_34.
- [290] Yanick Ouellet and Claude-Guy Quimper. A mincumulative resource constraint. In Pierre Schaus, editor, *Integration of Constraint Programming, Artificial Intelligence, and Operations Research - 19th International Conference, CPAIOR 2022, Los Angeles, CA, USA, June 20-23, 2022, Proceedings*, volume 13292 of *Lecture Notes in Computer Science*, pages 318–334. Springer, 2022. doi:10.1007/978-3-031-08011-1_21.
- [291] Soukaina Oujana, Lionel Amodeo, Farouk Yalaoui, and D. Brodard. Solving a realistic hybrid and flexible flow shop scheduling problem through constraint programming: industrial case in a packaging company. In *8th International Conference on Control, Decision and Information Technologies, CoDIT 2022, Istanbul, Turkey, May 17-20, 2022*, pages 106–111. IEEE, 2022. URL: <https://doi.org/10.1109/CoDIT55151.2022.9803972>, doi:10.1109/CODIT55151.2022.9803972.
- [292] Cemalettin Öztürk, Semra Tunali, Brahim Hnich, and M. Arslan Ornek. Balancing and scheduling of flexible mixed model assembly lines. *Constraints An Int. J.*, 18(3):434–469, 2013. URL: <https://doi.org/10.1007/s10601-013-9142-6>, doi:10.1007/S10601-013-9142-6.
- [293] Vaibhav Pandey and Poonam Saini. Constraint programming versus heuristic approach to mapreduce scheduling problem in hadoop YARN for energy minimization. *J. Supercomput.*, 77(7):6788–6816, 2021. URL: <https://doi.org/10.1007/s11227-020-03516-3>, doi:10.1007/S11227-020-03516-3.

- [294] Claude Le Pape and Philippe Baptiste. A constraint programming library for preemptive and non-preemptive scheduling. In Mark Wallace, editor, *Proceedings of the Third International Conference on the Practical Application of Constraint Technology, PACT 1997, Westminster Central Hall, London, UK, April 23-25, 1997*, pages 237–256. Practical Application Company Ltd., 1997.
- [295] Claude Le Pape and Philippe Baptiste. Resource constraints for preemptive job-shop scheduling. *Constraints An Int. J.*, 3(4):263–287, 1998. doi:10.1023/A:1009723704757.
- [296] Hoonseok Park, Jumyung Um, Jae-Yoon Jung, and Martin Ruskowski. Developing a production scheduling system for modular factory using constraint programming. In Karsten Berns and Daniel Görges, editors, *Advances in Service and Industrial Robotics - Proceedings of the 28th International Conference on Robotics in Alpe-Adria-Danube Region, RAAD 2019, Kaiserslautern, Germany, June 19-21, 2019*, volume 980 of *Advances in Intelligent Systems and Computing*, pages 126–133. Springer, 2019. doi:10.1007/978-3-030-19648-6_15.
- [297] Joseph C. Pemberton and Flavius Galiber III. A constraint-based approach to satellite scheduling. In Eugene C. Freuder and Richard J. Wallace, editors, *Constraint Programming and Large Scale Discrete Optimization, Proceedings of a DIMACS Workshop, Princeton, New Jersey, USA, September 14-17, 1998*, volume 57 of *DIMACS Series in Discrete Mathematics and Theoretical Computer Science*, pages 101–114. DIMACS/AMS, 1998. URL: <https://doi.org/10.1090/dimacs/057/06>, doi:10.1090/DIMACS/057/06.
- [298] Guillaume Perez, Gaël Glorian, Wijnand Suijlen, and Arnaud Lallouet. A constraint programming model for scheduling the unloading of trains in ports. In *35th IEEE International Conference on Tools with Artificial Intelligence, ICTAI 2023, Atlanta, GA, USA, November 6-8, 2023*, pages 693–699. IEEE, 2023. doi:10.1109/ICTAI59109.2023.00108.
- [299] Guillaume Perez, Gael Glorian, Wijnand Suijlen, and Arnaud Lallouet. A constraint programming model for scheduling the unloading of trains in ports: Extended. *CoRR*, abs/2312.13682, 2023. URL: <https://doi.org/10.48550/arXiv.2312.13682>, arXiv:2312.13682, doi:10.48550/ARXIV.2312.13682.
- [300] Gilles Pesant, Gregory Rix, and Louis-Martin Rousseau. A comparative study of MIP and CP formulations for the B2B scheduling optimization problem. In Laurent Michel, editor, *Integration of AI and OR Techniques in Constraint Programming - 12th International Conference, CPAIOR 2015, Barcelona, Spain, May 18-22, 2015, Proceedings*, volume 9075 of *Lecture Notes in Computer Science*, pages 306–321. Springer, 2015. doi:10.1007/978-3-319-18008-3_21.
- [301] Thierry Petit and Emmanuel Poder. The soft cumulative constraint. *CoRR*, abs/0907.0939, 2009. URL: <http://arxiv.org/abs/0907.0939>, arXiv:0907.0939.
- [302] Emmanuel Poder and Nicolas Beldiceanu. Filtering for a continuous multi-resources cumulative constraint with resource consumption and production. In Jussi Rintanen, Bernhard Nebel, J. Christopher Beck, and Eric A. Hansen, editors, *Proceedings of the Eighteenth International Conference on Automated Planning and Scheduling, ICAPS 2008, Sydney, Australia, September 14-18, 2008*, pages 264–271. AAAI, 2008. URL: <http://www.aaai.org/Library/ICAPS/2008/icaps08-033.php>.
- [303] Emmanuel Poder, Nicolas Beldiceanu, and Eric Sanlaville. Computing a lower approximation of the compulsory part of a task with varying duration and varying resource consumption. *Eur. J. Oper. Res.*, 153(1):239–254, 2004. doi:10.1016/S0377-2217(02)00756-7.
- [304] Maximilian Pohl, Christian Artigues, and Rainer Kolisch. Solving the time-discrete winter runway scheduling problem: A column generation and constraint programming approach. *Eur. J. Oper. Res.*, 299(2):674–689, 2022. URL: <https://doi.org/10.1016/j.ejor.2021.08.028>, doi:10.1016/J.EJOR.2021.08.028.
- [305] Oliver Polo-Mejía, Christian Artigues, Pierre Lopez, and Virginie Basini. Mixed-integer/linear and constraint programming approaches for activity scheduling in a nuclear research facility. *Int. J. Prod. Res.*, 58(23):7149–7166, 2020. doi:10.1080/00207543.2019.1693654.

- [306] Louis Popovic, Alain Côté, Mohamed Gaha, Franklin Nguewouo, and Quentin Cappart. Scheduling the equipment maintenance of an electric power transmission network using constraint programming. In Christine Solnon, editor, *28th International Conference on Principles and Practice of Constraint Programming, CP 2022, July 31 to August 8, 2022, Haifa, Israel*, volume 235 of *LIPIcs*, pages 34:1–34:15. Schloss Dagstuhl - Leibniz-Zentrum für Informatik, 2022. URL: <https://doi.org/10.4230/LIPIcs.CP.2022.34>, doi:10.4230/LIPIcs.CP.2022.34.
- [307] Shahrzad M. Pour, John H. Drake, Lena Secher Ejlersen, Kourosh Marjani Rasmussen, and Edmund K. Burke. A hybrid constraint programming/mixed integer programming framework for the preventive signaling maintenance crew scheduling problem. *Eur. J. Oper. Res.*, 269(1):341–352, 2018. URL: <https://doi.org/10.1016/j.ejor.2017.08.033>, doi:10.1016/J.EJOR.2017.08.033.
- [308] Guillaume Pováda, Nahum Álvarez, and Christian Artigues. Partially preemptive multi skill/mode resource-constrained project scheduling with generalized precedence relations and calendars. In Roland H. C. Yap, editor, *29th International Conference on Principles and Practice of Constraint Programming, CP 2023, August 27-31, 2023, Toronto, Canada*, volume 280 of *LIPIcs*, pages 31:1–31:21. Schloss Dagstuhl - Leibniz-Zentrum für Informatik, 2023. URL: <https://doi.org/10.4230/LIPIcs.CP.2023.31>, doi:10.4230/LIPIcs.CP.2023.31.
- [309] Cédric Pralet. An incomplete constraint-based system for scheduling with renewable resources. In J. Christopher Beck, editor, *Principles and Practice of Constraint Programming - 23rd International Conference, CP 2017, Melbourne, VIC, Australia, August 28 - September 1, 2017, Proceedings*, volume 10416 of *Lecture Notes in Computer Science*, pages 243–261. Springer, 2017. doi:10.1007/978-3-319-66158-2_16.
- [310] Cédric Pralet, Solange Lemai-Chenevier, and Jean Jaubert. Scheduling running modes of satellite instruments using constraint-based local search. In Gilles Pesant, editor, *Principles and Practice of Constraint Programming - 21st International Conference, CP 2015, Cork, Ireland, August 31 - September 4, 2015, Proceedings*, volume 9255 of *Lecture Notes in Computer Science*, pages 704–719. Springer, 2015. doi:10.1007/978-3-319-23219-5_48.
- [311] Bruno A. Prata, Levi R. Abreu, and Marcelo S. Nagano. Applications of constraint programming in production scheduling problems: A descriptive bibliometric analysis. *Results in Control and Optimization*, 14:100350, 2024. URL: <https://www.sciencedirect.com/science/article/pii/S2666720723001522>, doi: <https://doi.org/10.1016/j.rico.2023.100350>.
- [312] Jean-Francois Puget. Applications of constraint programming. In Ugo Montanari and Francesca Rossi, editors, *Principles and Practice of Constraint Programming - CP'95, First International Conference, CP'95, Cassis, France, September 19-22, 1995, Proceedings*, volume 976 of *Lecture Notes in Computer Science*, pages 647–650. Springer, 1995. doi:10.1007/3-540-60299-2_43.
- [313] Ming Qin, Runsen Wang, Zhongshun Shi, Lingxuan Liu, and Leyuan Shi. A genetic programming-based scheduling approach for hybrid flow shop with a batch processor and waiting time constraint. *IEEE Trans Autom. Sci. Eng.*, 18(1):94–105, 2021. doi:10.1109/TASE.2019.2947398.
- [314] Tianbao Qin, Yuquan Du, Jiang Hang Chen, and Mei Sha. Combining mixed integer programming and constraint programming to solve the integrated scheduling problem of container handling operations of a single vessel. *Eur. J. Oper. Res.*, 285(3):884–901, 2020. URL: <https://doi.org/10.1016/j.ejor.2020.02.021>, doi:10.1016/J.EJOR.2020.02.021.
- [315] Yang Qu, Juha-Pekka Soininen, and Jari Nurmi. Using constraint programming to achieve optimal prefetch scheduling for dependent tasks on run-time reconfigurable devices. In *International Symposium on System-on-Chip, SoC 2006, Tampere, Finland, November 13-16, 2006*, pages 1–4. IEEE, 2006. doi:10.1109/ISSOC.2006.321973.
- [316] Oscar Quiroga, Luis Zeballos, and Gabriela P. Henning. A constraint programming approach to tool allocation and resource scheduling in FMS. In *Proceedings of the 2005 IEEE International Conference on Robotics and Automation, ICRA 2005, April 18-22, 2005, Barcelona, Spain*, pages 3715–3720. IEEE, 2005. doi:10.1109/ROBOT.2005.1570686.

- [317] Andrea Rendl, Matthias Prandtstetter, Gerhard Hiermann, Jakob Puchinger, and Günther R. Raidl. Hybrid heuristics for multimodal homecare scheduling. In Nicolas Beldiceanu, Narendra Jussien, and Eric Pinson, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems - 9th International Conference, CPAIOR 2012, Nantes, France, May 28 - June 1, 2012. Proceedings*, volume 7298 of *Lecture Notes in Computer Science*, pages 339–355. Springer, 2012. doi:10.1007/978-3-642-29828-8_22.
- [318] Vahid Riahi, M. A. Hakim Newton, Kaile Su, and Abdul Sattar. Local search for flowshops with setup times and blocking constraints. In Mathijs de Weerd, Sven Koenig, Gabriele Röger, and Matthijs T. J. Spaan, editors, *Proceedings of the Twenty-Eighth International Conference on Automated Planning and Scheduling, ICAPS 2018, Delft, The Netherlands, June 24-29, 2018*, pages 199–207. AAAI Press, 2018. URL: <https://aaai.org/ocs/index.php/ICAPS/ICAPS18/paper/view/17755>.
- [319] Robert Rodosek and Mark Wallace. A generic model and hybrid algorithm for hoist scheduling problems. In Michael J. Maher and Jean-Francois Puget, editors, *Principles and Practice of Constraint Programming - CP98, 4th International Conference, Pisa, Italy, October 26-30, 1998, Proceedings*, volume 1520 of *Lecture Notes in Computer Science*, pages 385–399. Springer, 1998. doi:10.1007/3-540-49481-2_28.
- [320] Roberto Rossi, Armagan Tarim, Brahim Hnich, and Steven D. Prestwich. Replenishment planning for stochastic inventory systems with shortage cost. In Pascal Van Hentenryck and Laurence A. Wolsey, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, 4th International Conference, CPAIOR 2007, Brussels, Belgium, May 23-26, 2007, Proceedings*, volume 4510 of *Lecture Notes in Computer Science*, pages 229–243. Springer, 2007. doi:10.1007/978-3-540-72397-4_17.
- [321] David Sacramento, Christine Solnon, and David Pisinger. Constraint programming and local search heuristic: a matheuristic approach for routing and scheduling feeder vessels in multi-terminal ports. *Oper. Res. Forum*, 1(4), 2020. URL: <https://doi.org/10.1007/s43069-020-00036-x>, doi:10.1007/s43069-020-00036-x.
- [322] Ruslan Sadykov. A hybrid branch-and-cut algorithm for the one-machine scheduling problem. In Jean-Charles Régin and Michel Rueher, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, First International Conference, CPAIOR 2004, Nice, France, April 20-22, 2004, Proceedings*, volume 3011 of *Lecture Notes in Computer Science*, pages 409–415. Springer, 2004. doi:10.1007/978-3-540-24664-0_31.
- [323] Ruslan Sadykov and Laurence A. Wolsey. Integer programming and constraint programming in solving a multimachine assignment scheduling problem with deadlines and release dates. *INFORMS J. Comput.*, 18(2):209–217, 2006. URL: <https://doi.org/10.1287/ijoc.1040.0110>, doi:10.1287/IJOC.1040.0110.
- [324] Hani El Sakkout and Mark Wallace. Probe backtrack search for minimal perturbation in dynamic scheduling. *Constraints An Int. J.*, 5(4):359–388, 2000. doi:10.1023/A:1009856210543.
- [325] Pierre Schaus, Pascal Van Hentenryck, Jean-Noël Monette, Carleton Coffrin, Laurent Michel, and Yves Deville. Solving steel mill slab problems with constraint-based techniques: Cp, Ins, and CBLS. *Constraints An Int. J.*, 16(2):125–147, 2011. URL: <https://doi.org/10.1007/s10601-010-9100-5>, doi:10.1007/s10601-010-9100-5.
- [326] Klaus Schild and Jörg Würtz. Scheduling of time-triggered real-time systems. *Constraints An Int. J.*, 5(4):335–357, 2000. doi:10.1023/A:1009804226473.
- [327] Andreas Schutt, Geoffrey Chu, Peter J. Stuckey, and Mark G. Wallace. Maximising the net present value for resource-constrained project scheduling. In Nicolas Beldiceanu, Narendra Jussien, and Eric Pinson, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems - 9th International Conference, CPAIOR 2012, Nantes, France, May 28 - June 1, 2012. Proceedings*, volume 7298 of *Lecture Notes in Computer Science*, pages 362–378. Springer, 2012. doi:10.1007/978-3-642-29828-8_24.

- [328] Andreas Schutt, Thibaut Feydy, and Peter J. Stuckey. Explaining time-table-edge-finding propagation for the cumulative resource constraint. In Carla P. Gomes and Meinolf Sellmann, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, 10th International Conference, CPAIOR 2013, Yorktown Heights, NY, USA, May 18-22, 2013. Proceedings*, volume 7874 of *Lecture Notes in Computer Science*, pages 234–250. Springer, 2013. doi:10.1007/978-3-642-38171-3_16.
- [329] Andreas Schutt, Thibaut Feydy, and Peter J. Stuckey. Scheduling optional tasks with explanation. In Christian Schulte, editor, *Principles and Practice of Constraint Programming - 19th International Conference, CP 2013, Uppsala, Sweden, September 16-20, 2013. Proceedings*, volume 8124 of *Lecture Notes in Computer Science*, pages 628–644. Springer, 2013. doi:10.1007/978-3-642-40627-0_47.
- [330] Andreas Schutt, Thibaut Feydy, Peter J. Stuckey, and Mark Wallace. Why cumulative decomposition is not as bad as it sounds. In Ian P. Gent, editor, *Principles and Practice of Constraint Programming - CP 2009, 15th International Conference, CP 2009, Lisbon, Portugal, September 20-24, 2009, Proceedings*, volume 5732 of *Lecture Notes in Computer Science*, pages 746–761. Springer, 2009. doi:10.1007/978-3-642-04244-7_58.
- [331] Andreas Schutt, Thibaut Feydy, Peter J. Stuckey, and Mark G. Wallace. Explaining the cumulative propagator. *Constraints An Int. J.*, 16(3):250–282, 2011. URL: <https://doi.org/10.1007/s10601-010-9103-2>, doi:10.1007/S10601-010-9103-2.
- [332] Andreas Schutt and Peter J. Stuckey. Explaining producer/consumer constraints. In Michel Rueher, editor, *Principles and Practice of Constraint Programming - 22nd International Conference, CP 2016, Toulouse, France, September 5-9, 2016, Proceedings*, volume 9892 of *Lecture Notes in Computer Science*, pages 438–454. Springer, 2016. doi:10.1007/978-3-319-44953-1_28.
- [333] Andreas Schutt and Armin Wolf. A new $O(n^2 \log n)$ not-first/not-last pruning algorithm for cumulative resource constraints. In David Cohen, editor, *Principles and Practice of Constraint Programming - CP 2010 - 16th International Conference, CP 2010, St. Andrews, Scotland, UK, September 6-10, 2010. Proceedings*, volume 6308 of *Lecture Notes in Computer Science*, pages 445–459. Springer, 2010. doi:10.1007/978-3-642-15396-9_36.
- [334] Thiago Serra, Gilberto Nishioka, and Fernando J. M. Marcellino. The offshore resources scheduling problem: Detailing a constraint programming approach. In Michela Milano, editor, *Principles and Practice of Constraint Programming - 18th International Conference, CP 2012, Québec City, QC, Canada, October 8-12, 2012. Proceedings*, volume 7514 of *Lecture Notes in Computer Science*, pages 823–839. Springer, 2012. doi:10.1007/978-3-642-33558-7_59.
- [335] Aftab Ahmed Shaikh and Abdullah Ayub Khan. Management of electronic ledger: a constraint programming approach for solving curricula scheduling problems. *Int. J. Electron. Secur. Digit. Forensics*, 15(1):88–99, 2023. doi:10.1504/IJESDF.2023.10045616.
- [336] Ganquan Shi, Zhouwang Yang, Yang Xu, and Yuchen Quan. Solving the integrated process planning and scheduling problem using an enhanced constraint programming-based approach. *Int. J. Prod. Res.*, 60(18):5505–5522, 2022. doi:10.1080/00207543.2021.1963496.
- [337] Seung Yeob Shin, Yuriy Brun, Hari Balasubramanian, Philip L. Henneman, and Leon J. Osterweil. Discrete-event simulation and integer linear programming for constraint-aware resource scheduling. *IEEE Trans. Syst. Man Cybern. Syst.*, 48(9):1578–1593, 2018. doi:10.1109/TSMC.2017.2681623.
- [338] Mohamed Siala. Search, propagation, and learning in sequencing and scheduling problems. *Constraints An Int. J.*, 20(4):479–480, 2015. URL: <https://doi.org/10.1007/s10601-015-9213-y>, doi:10.1007/S10601-015-9213-Y.
- [339] Mohamed Siala, Christian Artigues, and Emmanuel Hebrard. Two clause learning approaches for disjunctive scheduling. In Gilles Pesant, editor, *Principles and Practice of Constraint Programming - 21st International Conference, CP 2015, Cork, Ireland, August 31 - September 4, 2015, Proceedings*, volume 9255 of *Lecture Notes in Computer Science*, pages 393–402. Springer, 2015. doi:10.1007/978-3-319-23219-5_28.

- [340] Gilles Simonin, Christian Artigues, Emmanuel Hebrard, and Pierre Lopez. Scheduling scientific experiments on the rosetta/philae mission. In Michela Milano, editor, *Principles and Practice of Constraint Programming - 18th International Conference, CP 2012, Québec City, QC, Canada, October 8-12, 2012. Proceedings*, volume 7514 of *Lecture Notes in Computer Science*, pages 23–37. Springer, 2012. doi:10.1007/978-3-642-33558-7_5.
- [341] Gilles Simonin, Christian Artigues, Emmanuel Hebrard, and Pierre Lopez. Scheduling scientific experiments for comet exploration. *Constraints An Int. J.*, 20(1):77–99, 2015. URL: <https://doi.org/10.1007/s10601-014-9169-3>, doi:10.1007/S10601-014-9169-3.
- [342] Helmut Simonis. The CHIP system and its applications. In Ugo Montanari and Francesca Rossi, editors, *Principles and Practice of Constraint Programming - CP'95, First International Conference, CP'95, Cassis, France, September 19-22, 1995, Proceedings*, volume 976 of *Lecture Notes in Computer Science*, pages 643–646. Springer, 1995. doi:10.1007/3-540-60299-2_42.
- [343] Helmut Simonis. Models for global constraint applications. *Constraints An Int. J.*, 12(1):63–92, 2007. URL: <https://doi.org/10.1007/s10601-006-9011-7>, doi:10.1007/S10601-006-9011-7.
- [344] Helmut Simonis and Trijntje Cornelissens. Modelling producer/consumer constraints. In Ugo Montanari and Francesca Rossi, editors, *Principles and Practice of Constraint Programming - CP'95, First International Conference, CP'95, Cassis, France, September 19-22, 1995, Proceedings*, volume 976 of *Lecture Notes in Computer Science*, pages 449–462. Springer, 1995. doi:10.1007/3-540-60299-2_27.
- [345] Samuel Squillaci, Cédric Pralet, and Stéphanie Roussel. Scheduling complex observation requests for a constellation of satellites: Large neighborhood search approaches. In André A. Ciré, editor, *Integration of Constraint Programming, Artificial Intelligence, and Operations Research - 20th International Conference, CPAIOR 2023, Nice, France, May 29 - June 1, 2023, Proceedings*, volume 13884 of *Lecture Notes in Computer Science*, pages 443–459. Springer, 2023. doi:10.1007/978-3-031-33271-5_29.
- [346] Kemal Subulan and Gizem Çakir. Constraint programming-based transformation approach for a mixed fuzzy-stochastic resource investment project scheduling problem. *Soft Comput.*, 26(5):2523–2560, 2022. URL: <https://doi.org/10.1007/s00500-021-06399-5>, doi:10.1007/S00500-021-06399-5.
- [347] Yuan Sun, Su Nguyen, Dhananjay R. Thiruvady, Xiaodong Li, Andreas T. Ernst, and Uwe Aickelin. Enhancing constraint programming via supervised learning for job shop scheduling. *CoRR*, abs/2211.14492, 2022. URL: <https://doi.org/10.48550/arXiv.2211.14492>, arXiv:2211.14492, doi:10.48550/ARXIV.2211.14492.
- [348] Zheng Sun, Hong Li, Min Yao, and Nan Li. Scheduling optimization techniques for flexray using constraint-programming. In Peidong Zhu, Lizhe Wang, Feng Xia, Huajun Chen, Ian McLoughlin, Shiao-Li Tsao, Mitsuhsa Sato, Sun-Ki Chai, and Irwin King, editors, *2010 IEEE/ACM Int'l Conference on Green Computing and Communications, GreenCom 2010, & Int'l Conference on Cyber, Physical and Social Computing, CPSCOM 2010, Hangzhou, China, December 18-20, 2010*, pages 931–936. IEEE Computer Society, 2010. URL: <https://doi.org/10.1109/GreenCom-CPSCOM.2010.111>, doi:10.1109/GREENCOM-CPSCOM.2010.111.
- [349] Suresh Sundaram, V. Mani, S. N. Omkar, and H. J. Kim. Divisible load scheduling in distributed system with buffer constraints: genetic algorithm and linear programming approach. *Int. J. Parallel Emergent Distributed Syst.*, 21(5):303–321, 2006. doi:10.1080/17445760600567842.
- [350] Ria Szeredi and Andreas Schutt. Modelling and solving multi-mode resource-constrained project scheduling. In Michel Rueher, editor, *Principles and Practice of Constraint Programming - 22nd International Conference, CP 2016, Toulouse, France, September 5-9, 2016, Proceedings*, volume 9892 of *Lecture Notes in Computer Science*, pages 483–492. Springer, 2016. doi:10.1007/978-3-319-44953-1_31.
- [351] Tanya Y. Tang and J. Christopher Beck. CP and hybrid models for two-stage batching and scheduling. In Emmanuel Hebrard and Nysret Musliu, editors, *Integration of Constraint Programming, Artificial Intelligence, and Operations Research - 17th International Conference, CPAIOR 2020, Vienna, Austria, September 21-24, 2020, Proceedings*, volume 12296 of *Lecture Notes in Computer Science*, pages 431–446. Springer, 2020. doi:10.1007/978-3-030-58942-4_28.

- [352] Yuanjie Tang, Rengkui Liu, Futian Wang, Quanxin Sun, and Amr A. Kandil. Scheduling optimization of linear schedule with constraint programming. *Comput. Aided Civ. Infrastructure Eng.*, 33(2):124–151, 2018. URL: <https://doi.org/10.1111/mice.12277>, doi:10.1111/MICE.12277.
- [353] Fabio Tardivo, Agostino Dovier, Andrea Formisano, Laurent Michel, and Enrico Pontelli. Constraint propagation on GPU: A case study for the cumulative constraint. In André A. Ciré, editor, *Integration of Constraint Programming, Artificial Intelligence, and Operations Research - 20th International Conference, CPAIOR 2023, Nice, France, May 29 - June 1, 2023, Proceedings*, volume 13884 of *Lecture Notes in Computer Science*, pages 336–353. Springer, 2023. doi:10.1007/978-3-031-33271-5_22.
- [354] Pierre Tassel, Martin Gebser, and Konstantin Schekotihin. An end-to-end reinforcement learning approach for job-shop scheduling problems based on constraint programming. In Sven Koenig, Roni Stern, and Mauro Vallati, editors, *Proceedings of the Thirty-Third International Conference on Automated Planning and Scheduling, July 8-13, 2023, Prague, Czech Republic*, pages 614–622. AAAI Press, 2023. URL: <https://doi.org/10.1609/icaps.v33i1.27243>, doi:10.1609/ICAPS.V33I1.27243.
- [355] Pierre Tassel, Martin Gebser, and Konstantin Schekotihin. An end-to-end reinforcement learning approach for job-shop scheduling problems based on constraint programming. *CoRR*, abs/2306.05747, 2023. URL: <https://doi.org/10.48550/arXiv.2306.05747>, arXiv:2306.05747, doi:10.48550/ARXIV.2306.05747.
- [356] David B. H. Tay. COPS: A constraint programming approach to resource-limited project scheduling. *Comput. J.*, 35(Additional-Papers):A237–A249, 1992.
- [357] Erich Christian Teppan. Types of flexible job shop scheduling: A constraint programming experiment. In Ana Paula Rocha, Luc Steels, and H. Jaap van den Herik, editors, *Proceedings of the 14th International Conference on Agents and Artificial Intelligence, ICAART 2022, Volume 3, Online Streaming, February 3-5, 2022*, pages 516–523. SCITEPRESS, 2022. doi:10.5220/0010849900003116.
- [358] Alexander Tesch. A nearly exact propagation algorithm for energetic reasoning in $\mathcal{O}(n^2 \log n)$. In Michel Rueher, editor, *Principles and Practice of Constraint Programming - 22nd International Conference, CP 2016, Toulouse, France, September 5-9, 2016, Proceedings*, volume 9892 of *Lecture Notes in Computer Science*, pages 493–519. Springer, 2016. doi:10.1007/978-3-319-44953-1_32.
- [359] Alexander Tesch. Improving energetic propagations for cumulative scheduling. In John N. Hooker, editor, *Principles and Practice of Constraint Programming - 24th International Conference, CP 2018, Lille, France, August 27-31, 2018, Proceedings*, volume 11008 of *Lecture Notes in Computer Science*, pages 629–645. Springer, 2018. doi:10.1007/978-3-319-98334-9_41.
- [360] Dhananjay R. Thiruvady, Christian Blum, Bernd Meyer, and Andreas T. Ernst. Hybridizing beam-aco with constraint programming for single machine job scheduling. In Maria J. Blesa, Christian Blum, Luca Di Gaspero, Andrea Roli, Michael Sampels, and Andrea Schaerf, editors, *Hybrid Metaheuristics, 6th International Workshop, HM 2009, Udine, Italy, October 16-17, 2009. Proceedings*, volume 5818 of *Lecture Notes in Computer Science*, pages 30–44. Springer, 2009. doi:10.1007/978-3-642-04918-7_3.
- [361] Christian Timpe. Solving planning and scheduling problems with combined integer and constraint programming. *OR Spectr.*, 24(4):431–448, 2002. URL: <https://doi.org/10.1007/s00291-002-0107-1>, doi:10.1007/S00291-002-0107-1.
- [362] Mary Tom. Fuzzy multi-constraint programming model for weekly meals scheduling. In *2019 IEEE International Conference on Fuzzy Systems, FUZZ-IEEE 2019, New Orleans, LA, USA, June 23-26, 2019*, pages 1–6. IEEE, 2019. doi:10.1109/FUZZ-IEEE.2019.8859029.
- [363] Seyda Topaloglu and Irem Ozkarahan. A constraint programming-based solution approach for medical resident scheduling problems. *Comput. Oper. Res.*, 38(1):246–255, 2011. URL: <https://doi.org/10.1016/j.cor.2010.04.018>, doi:10.1016/J.COR.2010.04.018.

- [364] Meriem Touat, Belaid Benhamou, and Fatima Benbouzid-Si Tayeb. A constraint programming model for the scheduling problem with flexible maintenance under human resource constraints. In Ana Paula Rocha, Luc Steels, and H. Jaap van den Herik, editors, *Proceedings of the 14th International Conference on Agents and Artificial Intelligence, ICAART 2022, Volume 3, Online Streaming, February 3-5, 2022*, pages 195–202. SCITEPRESS, 2022.
- [365] Touraïvane. Constraint programming and industrial applications. In Ugo Montanari and Francesca Rossi, editors, *Principles and Practice of Constraint Programming - CP'95, First International Conference, CP'95, Cassis, France, September 19-22, 1995, Proceedings*, volume 976 of *Lecture Notes in Computer Science*, pages 640–642. Springer, 1995. doi:10.1007/3-540-60299-2_41.
- [366] Mariem Trojet, Fehmi H'Mida, and Pierre Lopez. Project scheduling under resource constraints: Application of the cumulative global constraint in a decision support framework. *Comput. Ind. Eng.*, 61(2):357–363, 2011. URL: <https://doi.org/10.1016/j.cie.2010.08.014>, doi:10.1016/J.CIE.2010.08.014.
- [367] Edward P. K. Tsang. Constraint based scheduling: Applying constraint programming to scheduling problems. *J. Sched.*, 6(4):413–414, 2003. doi:10.1023/A:1024016929283.
- [368] Carmelo Del Valle, Antonio A. Márquez, Rafael M. Gasca, and Miguel Toro. On selecting and scheduling assembly plans using constraint programming. In Vasile Palade, Robert J. Howlett, and Lakhmi C. Jain, editors, *Knowledge-Based Intelligent Information and Engineering Systems, 7th International Conference, KES 2003, Oxford, UK, September 3-5, 2003, Proceedings, Part II*, volume 2774 of *Lecture Notes in Computer Science*, pages 1329–1336. Springer, 2003. doi:10.1007/978-3-540-45226-3_180.
- [369] J. M. van den Akker, Guido Diepen, and J. A. Hoogeveen. A column generation based destructive lower bound for resource constrained project scheduling problems. In Pascal Van Hentenryck and Laurence A. Wolsey, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, 4th International Conference, CPAIOR 2007, Brussels, Belgium, May 23-26, 2007, Proceedings*, volume 4510 of *Lecture Notes in Computer Science*, pages 376–390. Springer, 2007. doi:10.1007/978-3-540-72397-4_27.
- [370] Pim van den Bogaerdt and Mathijs de Weerdt. Lower bounds for uniform machine scheduling using decision diagrams. In Louis-Martin Rousseau and Kostas Stergiou, editors, *Integration of Constraint Programming, Artificial Intelligence, and Operations Research - 16th International Conference, CPAIOR 2019, Thessaloniki, Greece, June 4-7, 2019, Proceedings*, volume 11494 of *Lecture Notes in Computer Science*, pages 565–580. Springer, 2019. doi:10.1007/978-3-030-19212-9_38.
- [371] Roman van der Krogt, James Little, Kenneth Pulliam, Sue Hanhilammi, and Yue Jin. Scheduling for cellular manufacturing. In Christian Bessiere, editor, *Principles and Practice of Constraint Programming - CP 2007, 13th International Conference, CP 2007, Providence, RI, USA, September 23-27, 2007, Proceedings*, volume 4741 of *Lecture Notes in Computer Science*, pages 105–117. Springer, 2007. doi:10.1007/978-3-540-74970-7_10.
- [372] Willem Jan van Hoeve, Carla P. Gomes, Bart Selman, and Michele Lombardi. Optimal multi-agent scheduling with constraint programming. In *Proceedings of the Twenty-Second AAAI Conference on Artificial Intelligence, July 22-26, 2007, Vancouver, British Columbia, Canada*, pages 1813–1818. AAAI Press, 2007. URL: <http://www.aaai.org/Library/AAAI/2007/aaai07-291.php>.
- [373] József Váncza and András Márkus. A constraint engine for manufacturing process planning. In Toby Walsh, editor, *Principles and Practice of Constraint Programming - CP 2001, 7th International Conference, CP 2001, Paphos, Cyprus, November 26 - December 1, 2001, Proceedings*, volume 2239 of *Lecture Notes in Computer Science*, pages 745–759. Springer, 2001. doi:10.1007/3-540-45578-7_60.
- [374] Gérard Verfaillie and Michel Lemaître. Selecting and scheduling observations for agile satellites: Some lessons from the constraint reasoning community point of view. In Toby Walsh, editor, *Principles and Practice of Constraint Programming - CP 2001, 7th International Conference, CP 2001, Paphos, Cyprus, November 26 - December 1, 2001, Proceedings*, volume 2239 of *Lecture Notes in Computer Science*, pages 670–684. Springer, 2001. doi:10.1007/3-540-45578-7_55.

- [375] Petr Vilím. Batch processing with sequence dependent setup times. In Pascal Van Hentenryck, editor, *Principles and Practice of Constraint Programming - CP 2002, 8th International Conference, CP 2002, Ithaca, NY, USA, September 9-13, 2002, Proceedings*, volume 2470 of *Lecture Notes in Computer Science*, page 764. Springer, 2002. doi:10.1007/3-540-46135-3_62.
- [376] Petr Vilím. Computing explanations for global scheduling constraints. In Francesca Rossi, editor, *Principles and Practice of Constraint Programming - CP 2003, 9th International Conference, CP 2003, Kinsale, Ireland, September 29 - October 3, 2003, Proceedings*, volume 2833 of *Lecture Notes in Computer Science*, page 1000. Springer, 2003. doi:10.1007/978-3-540-45193-8_124.
- [377] Petr Vilím. $O(n \log n)$ filtering algorithms for unary resource constraint. In Jean-Charles Régin and Michel Rueher, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, First International Conference, CPAIOR 2004, Nice, France, April 20-22, 2004, Proceedings*, volume 3011 of *Lecture Notes in Computer Science*, pages 335–347. Springer, 2004. doi:10.1007/978-3-540-24664-0_23.
- [378] Petr Vilím. Computing explanations for the unary resource constraint. In Roman Barták and Michela Milano, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, Second International Conference, CPAIOR 2005, Prague, Czech Republic, May 30 - June 1, 2005, Proceedings*, volume 3524 of *Lecture Notes in Computer Science*, pages 396–409. Springer, 2005. doi:10.1007/11493853_29.
- [379] Petr Vilím. Edge finding filtering algorithm for discrete cumulative resources in $O(kn \log n)$. In Ian P. Gent, editor, *Principles and Practice of Constraint Programming - CP 2009, 15th International Conference, CP 2009, Lisbon, Portugal, September 20-24, 2009, Proceedings*, volume 5732 of *Lecture Notes in Computer Science*, pages 802–816. Springer, 2009. doi:10.1007/978-3-642-04244-7_62.
- [380] Petr Vilím. Max energy filtering algorithm for discrete cumulative resources. In Willem Jan van Hoeve and John N. Hooker, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, 6th International Conference, CPAIOR 2009, Pittsburgh, PA, USA, May 27-31, 2009, Proceedings*, volume 5547 of *Lecture Notes in Computer Science*, pages 294–308. Springer, 2009. doi:10.1007/978-3-642-01929-6_22.
- [381] Petr Vilím. Timetable edge finding filtering algorithm for discrete cumulative resources. In Tobias Achterberg and J. Christopher Beck, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems - 8th International Conference, CPAIOR 2011, Berlin, Germany, May 23-27, 2011. Proceedings*, volume 6697 of *Lecture Notes in Computer Science*, pages 230–245. Springer, 2011. doi:10.1007/978-3-642-21311-3_22.
- [382] Petr Vilím, Roman Barták, and Ondrej Cepek. Unary resource constraint with optional activities. In Mark Wallace, editor, *Principles and Practice of Constraint Programming - CP 2004, 10th International Conference, CP 2004, Toronto, Canada, September 27 - October 1, 2004, Proceedings*, volume 3258 of *Lecture Notes in Computer Science*, pages 62–76. Springer, 2004. doi:10.1007/978-3-540-30201-8_8.
- [383] Petr Vilím, Roman Barták, and Ondrej Cepek. Extension of $O(n \log n)$ filtering algorithms for the unary resource constraint to optional activities. *Constraints An Int. J.*, 10(4):403–425, 2005. URL: <https://doi.org/10.1007/s10601-005-2814-0>, doi:10.1007/S10601-005-2814-0.
- [384] Petr Vilím, Philippe Laborie, and Paul Shaw. Failure-directed search for constraint-based scheduling. In Laurent Michel, editor, *Integration of AI and OR Techniques in Constraint Programming - 12th International Conference, CPAIOR 2015, Barcelona, Spain, May 18-22, 2015, Proceedings*, volume 9075 of *Lecture Notes in Computer Science*, pages 437–453. Springer, 2015. doi:10.1007/978-3-319-18008-3_30.
- [385] Karen Villaverde and Enrico Pontelli. An investigation of scheduling in distributed constraint logic programming. In David A. Bader and Ashfaq A. Khokhar, editors, *Proceedings of the ISCA 17th International Conference on Parallel and Distributed Computing Systems, September 15-17, 2004, The Canterbury Hotel, San Francisco, California, USA*, pages 98–103. ISCA, 2004.
- [386] Marek Vlk, Zdenek Hanzálek, and Siyu Tang. Constraint programming approaches to joint routing and scheduling in time-sensitive networks. *Comput. Ind. Eng.*, 157:107317, 2021. URL: <https://doi.org/10.1016/j.cie.2021.107317>, doi:10.1016/J.CIE.2021.107317.

- [387] Mark Wallace. Practical applications of constraint programming. *Constraints An Int. J.*, 1(1/2):139–168, 1996. doi:10.1007/BF00143881.
- [388] Mark Wallace and Neil Yorke-Smith. A new constraint programming model and solving for the cyclic hoist scheduling problem. *Constraints An Int. J.*, 25(3-4):319–337, 2020. URL: <https://doi.org/10.1007/s10601-020-09316-z>, doi:10.1007/S10601-020-09316-Z.
- [389] Ruixin Wang and Nicolas Barnier. Global propagation of transition cost for fixed job scheduling. In Giuseppe De Giacomo, Alejandro Catalá, Bistra Dilkina, Michela Milano, Senén Barro, Alberto Bugarín, and Jérôme Lang, editors, *ECAI 2020 - 24th European Conference on Artificial Intelligence, 29 August-8 September 2020, Santiago de Compostela, Spain, August 29 - September 8, 2020 - Including 10th Conference on Prestigious Applications of Artificial Intelligence (PAIS 2020)*, volume 325 of *Frontiers in Artificial Intelligence and Applications*, pages 363–370. IOS Press, 2020. doi:10.3233/FAIA200114.
- [390] Ruixin Wang and Nicolas Barnier. Dynamic all-different and maximal cliques constraints for fixed job scheduling. In *35th IEEE International Conference on Tools with Artificial Intelligence, ICTAI 2023, Atlanta, GA, USA, November 6-8, 2023*, pages 385–392. IEEE, 2023. doi:10.1109/ICTAI59109.2023.00062.
- [391] Tao Wang, Nadine Meskens, and David Duvivier. Scheduling operating theatres: Mixed integer programming vs. constraint programming. *Eur. J. Oper. Res.*, 247(2):401–413, 2015. URL: <https://doi.org/10.1016/j.ejor.2015.06.008>, doi:10.1016/J.EJOR.2015.06.008.
- [392] Jean-Paul Watson and J. Christopher Beck. A hybrid constraint programming / local search approach to the job-shop scheduling problem. In Laurent Perron and Michael A. Trick, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, 5th International Conference, CPAIOR 2008, Paris, France, May 20-23, 2008, Proceedings*, volume 5015 of *Lecture Notes in Computer Science*, pages 263–277. Springer, 2008. doi:10.1007/978-3-540-68155-7\21.
- [393] Johan Wessén, Mats Carlsson, and Christian Schulte. Scheduling of dual-arm multi-tool assembly robots and workspace layout optimization. In Emmanuel Hebrard and Nysret Musliu, editors, *Integration of Constraint Programming, Artificial Intelligence, and Operations Research - 17th International Conference, CPAIOR 2020, Vienna, Austria, September 21-24, 2020, Proceedings*, volume 12296 of *Lecture Notes in Computer Science*, pages 511–520. Springer, 2020. doi:10.1007/978-3-030-58942-4\33.
- [394] Jaroslaw Wikarek and Pawel Sitek. A constraint-based declarative programming framework for scheduling and resource allocation problems. *Vietnam. J. Comput. Sci.*, 6(1):69–90, 2019. doi:10.1142/S2196888819500027.
- [395] Felix Winter, Sebastian Meiswinkel, Nysret Musliu, and Daniel Walkiewicz. Modeling and solving parallel machine scheduling with contamination constraints in the agricultural industry. In Christine Solnon, editor, *28th International Conference on Principles and Practice of Constraint Programming, CP 2022, July 31 to August 8, 2022, Haifa, Israel*, volume 235 of *LIPICs*, pages 41:1–41:18. Schloss Dagstuhl - Leibniz-Zentrum für Informatik, 2022. URL: <https://doi.org/10.4230/LIPICs.CP.2022.41>, doi:10.4230/LIPICs.CP.2022.41.
- [396] Armin Wolf. Pruning while sweeping over task intervals. In Francesca Rossi, editor, *Principles and Practice of Constraint Programming - CP 2003, 9th International Conference, CP 2003, Kinsale, Ireland, September 29 - October 3, 2003, Proceedings*, volume 2833 of *Lecture Notes in Computer Science*, pages 739–753. Springer, 2003. doi:10.1007/978-3-540-45193-8\50.
- [397] Armin Wolf and Gunnar Schrader. $O(n \log n)$ overload checking for the cumulative constraint and its application. In Masanobu Umeda, Armin Wolf, Oskar Bartenstein, Ulrich Geske, Dietmar Seipel, and Osamu Takata, editors, *Declarative Programming for Knowledge Management, 16th International Conference on Applications of Declarative Programming and Knowledge Management, INAP 2005, Fukuoka, Japan, October 22-24, 2005, Revised Selected Papers*, volume 4369 of *Lecture Notes in Computer Science*, pages 88–101. Springer, 2005. doi:10.1007/11963578\8.

- [398] Christophe Wolinski, Krzysztof Kuchcinski, and Maya B. Gokhale. A constraints programming approach to communication scheduling on socp architectures. In *2004 Euromicro Symposium on Digital Systems Design (DSD 2004), Architectures, Methods and Tools, 31 August - 3 September 2004, Rennes, France*, pages 308–315. IEEE Computer Society, 2004. doi:10.1109/DSD.2004.1333291.
- [399] Christophe Wolinski, Krzysztof Kuchcinski, and Maya B. Gokhale. A constraints programming approach to communication scheduling on socp architectures. In Russell Tessier and Herman Schmit, editors, *Proceedings of the ACM/SIGDA 12th International Symposium on Field Programmable Gate Arrays, FPGA 2004, Monterey, California, USA, February 22-24, 2004*, page 252. ACM, 2004. doi:10.1145/968280.968336.
- [400] Christine Wei Wu, Kenneth N. Brown, and J. Christopher Beck. Scheduling with uncertain start dates. In Peter van Beek, editor, *Principles and Practice of Constraint Programming - CP 2005, 11th International Conference, CP 2005, Sitges, Spain, October 1-5, 2005, Proceedings*, volume 3709 of *Lecture Notes in Computer Science*, page 872. Springer, 2005. doi:10.1007/11564751_110.
- [401] Moli Yang, Andreas Schutt, and Peter J. Stuckey. Time table edge finding with energy variables. In Louis-Martin Rousseau and Kostas Stergiou, editors, *Integration of Constraint Programming, Artificial Intelligence, and Operations Research - 16th International Conference, CPAIOR 2019, Thessaloniki, Greece, June 4-7, 2019, Proceedings*, volume 11494 of *Lecture Notes in Computer Science*, pages 633–642. Springer, 2019. doi:10.1007/978-3-030-19212-9_42.
- [402] Kenneth D. Young, Thibaut Feydy, and Andreas Schutt. Constraint programming applied to the multi-skill project scheduling problem. In J. Christopher Beck, editor, *Principles and Practice of Constraint Programming - 23rd International Conference, CP 2017, Melbourne, VIC, Australia, August 28 - September 1, 2017, Proceedings*, volume 10416 of *Lecture Notes in Computer Science*, pages 308–317. Springer, 2017. doi:10.1007/978-3-319-66158-2_20.
- [403] Pinar Yunusoglu and Seyda Topaloglu Yildiz. Constraint programming approach for multi-resource-constrained unrelated parallel machine scheduling problem with sequence-dependent setup times. *Int. J. Prod. Res.*, 60(7):2212–2229, 2022. doi:10.1080/00207543.2021.1885068.
- [404] Francisco Yuraszeck, Gonzalo Mejía, and Dario Canut-de-Bon. A competitive constraint programming approach for the group shop scheduling problem. In Elhadi M. Shakshuki and Ansar-Ul-Haque Yasar, editors, *The 14th International Conference on Ambient Systems, Networks and Technologies (ANT 2023) / The 6th International Conference on Emerging Data and Industry 4.0 (EDI40 2023) / Affiliated Workshops, March 15-17, 2023, Leuven, Belgium*, volume 220 of *Procedia Computer Science*, pages 946–951. Elsevier, 2023. URL: <https://doi.org/10.1016/j.procs.2023.03.130>, doi:10.1016/J.PROCS.2023.03.130.
- [405] Francisco Yuraszeck, Elizabeth Montero, Dario Canut-de-Bon, Nicolás Cuneo, and Maximiliano Rojel. A constraint programming formulation of the multi-mode resource-constrained project scheduling problem for the flexible job shop scheduling problem. *IEEE Access*, 11:144928–144938, 2023. doi:10.1109/ACCESS.2023.3345793.
- [406] M. H. Fazel Zarandi, H. Khorshidian, and Mohsen Akbarpour Shirazi. A constraint programming model for the scheduling of JIT cross-docking systems with preemption. *J. Intell. Manuf.*, 27(2):297–313, 2016. URL: <https://doi.org/10.1007/s10845-013-0860-9>, doi:10.1007/S10845-013-0860-9.
- [407] Luis Zeballos and Gabriela P. Henning. A constraint programming approach to FMS scheduling. consideration of storage and transportation resources. *Inteligencia Artif.*, 9(26):39–48, 2005. URL: <http://journal.iberamia.org/index.php/ia/article/view/452/article%20%281%29.pdf>.
- [408] Luis Zeballos, Oscar Quiroga, and Gabriela P. Henning. A constraint programming model for the scheduling of flexible manufacturing systems with machine and tool limitations. *Eng. Appl. Artif. Intell.*, 23(2):229–248, 2010. URL: <https://doi.org/10.1016/j.engappai.2009.07.002>, doi:10.1016/J.ENGAPPAI.2009.07.002.
- [409] Haotian Zhang, Yingjun Ji, Ziyang Zhao, and Shixin Liu. Constraint programming for modeling and solving a hybrid flow shop scheduling problem. In *IEEE International Conference on Networking, Sensing and Control, ICNSC 2022, Shanghai, China, December 15-18, 2022*, pages 1–6. IEEE, 2022. doi:10.1109/ICNSC55942.2022.10004154.

- [410] Luping Zhang, Chunxia Yu, and T. N. Wong. A graph-based constraint programming approach for the integrated process planning and scheduling problem. *Comput. Oper. Res.*, 131:105282, 2021. URL: <https://doi.org/10.1016/j.cor.2021.105282>, doi:10.1016/J.COR.2021.105282.
- [411] Sicheng Zhang and Shouyang Wang. Flexible assembly job-shop scheduling with sequence-dependent setup times and part sharing in a dynamic environment: Constraint programming model, mixed-integer programming model, and dispatching rules. *IEEE Trans. Engineering Management*, 65(3):487–504, 2018. doi:10.1109/TEM.2017.2785774.
- [412] Xujun Zhang, Zhimin Lv, and Xiaoqing Song. Model and solution for hot strip rolling scheduling problem based on constraint programming method. In *12th IEEE International Conference on Computer and Information Technology, CIT 2012, Chengdu, Sichuan, China, October 27-29, 2012*, pages 412–415. IEEE Computer Society, 2012. doi:10.1109/CIT.2012.96.
- [413] Jianyang Zhou. A constraint program for solving the job-shop problem. In Eugene C. Freuder, editor, *Proceedings of the Second International Conference on Principles and Practice of Constraint Programming, Cambridge, Massachusetts, USA, August 19-22, 1996*, volume 1118 of *Lecture Notes in Computer Science*, pages 510–524. Springer, 1996. doi:10.1007/3-540-61551-2_97.
- [414] Jianyang Zhou. A permutation-based approach for solving the job-shop problem. *Constraints An Int. J.*, 2(2):185–213, 1997. doi:10.1023/A:1009757726572.
- [415] Jinlian Zhou, Ying Guo, and Guipeng Li. On complex hybrid flexible flowshop scheduling problems based on constraint programming. In *12th International Conference on Fuzzy Systems and Knowledge Discovery, FSKD 2015, Zhangjiajie, China, August 15-17, 2015*, pages 909–913. IEEE, 2015. doi:10.1109/FSKD.2015.7382064.
- [416] Kenny Qili Zhu and Andrew E. Santosa. A meeting scheduling system based on open constraint programming. In Anne Banks Pidduck, John Mylopoulos, Carson C. Woo, and M. Tamer Özsu, editors, *Advanced Information Systems Engineering, 14th International Conference, CAiSE 2002, Toronto, Canada, May 27-31, 2002, Proceedings*, volume 2348 of *Lecture Notes in Computer Science*, pages 792–796. Springer, 2002. doi:10.1007/3-540-47961-9_69.
- [417] Minhaz F. Zibran and Chanchal K. Roy. Conflict-aware optimal scheduling of code clone refactoring: A constraint programming approach. In *The 19th IEEE International Conference on Program Comprehension, ICPC 2011, Kingston, ON, Canada, June 22-24, 2011*, pages 266–269. IEEE Computer Society, 2011. doi:10.1109/ICPC.2011.45.
- [418] Minhaz F. Zibran and Chanchal K. Roy. A constraint programming approach to conflict-aware optimal scheduling of prioritized code clone refactoring. In *11th IEEE Working Conference on Source Code Analysis and Manipulation, SCAM 2011, Williamsburg, VA, USA, September 25-26, 2011*, pages 105–114. IEEE Computer Society, 2011. doi:10.1109/SCAM.2011.21.