Peter J Stuckey

List of Publications by Citations

234 papers	3,819 citations	25 h-index	54 g-index
240 ext. papers	4,333 ext. citations	1.3 avg, IF	5.54 L-index

#	Paper	IF	Citations
234	MUSTANG: a multiple structural alignment algorithm. *Proteins: Structure, Function and Bioinformatics*, **2006**, 64, 559-74	4.2	527
233	Programming with Constraints **1998**,		385
232	MiniZinc: Towards a Standard CP Modelling Language **2007**, 529-543		278
231	Propagation via lazy clause generation. *Constraints*, **2009**, 14, 357-391	0.3	125
230	Automatic generation of protein structure cartoons with Pro-origami. *Bioinformatics*, **2011**, 27, 3315-6	7.2	124
229	The semantics of constraint logic programs1Note that reviewing of this paper was handled by the Editor-in-Chief.1. *The Journal of Logic Programming*, **1998**, 37, 1-46		109
228	The Design of the Zinc Modelling Language. *Constraints*, **2008**, 13, 229-267	0.3	85
227	Efficient constraint propagation engines. *ACM Transactions on Programming Languages and Systems* , **2008**, 31, 1-43	1.6	64
226	Explaining the cumulative propagator. *Constraints*, **2011**, 16, 250-282	0.3	57
225	Incremental analysis of constraint logic programs. *ACM Transactions on Programming Languages and Systems*, **2000**, 22, 187-223	1.6	56
224	The Refined Operational Semantics of Constraint Handling Rules. *Lecture Notes in Computer Science* , **2004**, 90-104	0.9	54
223	Solving linear arithmetic constraints for user interface applications **1997**,		49
222	Understanding functional dependencies via constraint handling rules. *Journal of Functional Programming*, **2007**, 17, 83-129	1.6	47
221	Lazy Clause Generation Reengineered. *Lecture Notes in Computer Science*, **2009**, 352-366	0.9	47
220	Fast Node Overlap Removal. *Lecture Notes in Computer Science*, **2006**, 153-164	0.9	45
219	The MiniZinc Challenge 2008–2013. *AI Magazine*, **2014**, 35, 55-60	6.1	43
218	Solving RCPSP/max by lazy clause generation. *Journal of Scheduling*, **2013**, 16, 273-289	1.6	42

217	Beyond finite domains. *Lecture Notes in Computer Science*, **1994**, 86-94	0.9	41
216	MUSTANG-MR structural sieving server: applications in protein structural analysis and crystallography. *PLoS ONE*, **2010**, 5, e10048	3.7	40
215	Constraint cascading style sheets for the Web **1999**,		40
214	Exploration of networks using overview+detail with constraint-based cooperative layout. *IEEE Transactions on Visualization and Computer Graphics*, **2008**, 14, 1293-300	4	38
213	Interactive type debugging in Haskell **2003**,		37
212	Fast and accurate protein substructure searching with simulated annealing and GPUs. *BMC Bioinformatics*, **2010**, 11, 446	3.6	33
211	Why Cumulative Decomposition Is Not as Bad as It Sounds. *Lecture Notes in Computer Science*, **2009**, 746-761	0.9	32
210	Short-term planning for open pit mines: a review. *International Journal of Mining, Reclamation and Environment*, **2019**, 33, 318-339	2.2	32
209	Monadic constraint programming. *Journal of Functional Programming*, **2009**, 19, 663-697	1.6	25
208	Structural search and retrieval using a tableau representation of protein folding patterns. *Bioinformatics*, **2008**, 24, 645-51	7.2	25
207	Lock-free parallel dynamic programming. *Journal of Parallel and Distributed Computing*, **2010**, 70, 839-848	1.4	23
206	Encodings of the Sequence Constraint **2007**, 210-224		22
205	Propagation = Lazy Clause Generation **2007**, 544-558		22
204	Solving Talent Scheduling with Dynamic Programming. *INFORMS Journal on Computing*, **2011**, 23, 120-137	1.4	21
203	Dynamic Programming to Minimize the Maximum Number of Open Stacks. *INFORMS Journal on Computing*, **2007**, 19, 607-617	2.4	21
202	Removing Node Overlapping in Graph Layout Using Constrained Optimization. *Constraints*, **2003**, 8, 143-171	0.9	21
201	An Overview of HAL. *Lecture Notes in Computer Science*, **1999**, 174-188	0.9	20
200	Minimum Cardinality Matrix Decomposition into Consecutive-Ones Matrices: CP and IP Approaches. *Lecture Notes in Computer Science*, **2007**, 1-15	0.9	20

199	Synthesizing Optimal Switching Lattices. *ACM Transactions on Design Automation of Electronic Systems*, **2014**, 20, 1-14	1.5	19
198	Improving type error diagnosis **2004**,		19
197	Improving Linear Constraint Propagation by Changing Constraint Representation. *Constraints*, **2003**, 8, 173-207	0.3	19
196	Logic programming with satisfiability. *Theory and Practice of Logic Programming*, **2008**, 8, 121-128	0.8	18
195	Maximising the Net Present Value for Resource-Constrained Project Scheduling. *Lecture Notes in Computer Science*, **2012**, 362-378	0.9	18
194	Explaining Time-Table-Edge-Finding Propagation for the Cumulative Resource Constraint. *Lecture Notes in Computer Science*, **2013**, 234-250	0.9	18
193	Mixed-integer linear programming and constraint programming formulations for solving resource availability cost problems. *European Journal of Operational Research*, **2018**, 266, 472-486	5.6	17
192	Search combinators. *Constraints*, **2013**, 18, 269-305	0.3	17
191	Incremental Satisfiability and Implication for UTVPI Constraints. *INFORMS Journal on Computing*, **2010**, 22, 514-527	2.4	16
190	Philosophy of the MiniZinc challenge. *Constraints*, **2010**, 15, 307-316	0.3	16
189	A Decomposition-Based Algorithm for the Scheduling of Open-Pit Networks Over Multiple Time Periods. *Management Science*, **2016**, 62, 3059-3084	3.9	15
188	Dantzig-Wolfe decomposition and branch-and-price solving in G12. *Constraints*, **2011**, 16, 77-99	0.3	15
187	Optimizing compilation of constraint handling rules in HAL. *Theory and Practice of Logic Programming*, **2005**, 5, 503-531	0.8	15
186	Efficient Intelligent Backtracking Using Linear Programming. *INFORMS Journal on Computing*, **2002**, 14, 373-386	2.4	15
185	Context-Sensitive Dynamic Partial Order Reduction. *Lecture Notes in Computer Science*, **2017**, 526-543	0.9	15
184	Half Reification and Flattening. *Lecture Notes in Computer Science*, **2011**, 286-301	0.9	15
183	Signedness-Agnostic Program Analysis: Precise Integer Bounds for Low-Level Code. *Lecture Notes in Computer Science*, **2012**, 115-130	0.9	15
182	Searching with Consistent Prioritization for Multi-Agent Path Finding. *Proceedings of the AAAI Conference on Artificial Intelligence*, **2019**, 33, 7643-7650	5	15

181	Short-term scheduling of an open-pit mine with multiple objectives. *Engineering Optimization*, **2017**, 49, 777-795	2	14
180	MIRAGAA--a methodology for finding coordinated effects of microRNA expression changes and genome aberrations in cancer. *Bioinformatics*, **2010**, 26, 161-7	7.2	14
179	Improved Linearization of Constraint Programming Models. *Lecture Notes in Computer Science*, **2016**, 49-65	0.9	14
178	Using constraint programming for solving RCPSP/max-cal. *Constraints*, **2017**, 22, 432-462	0.3	13
177	Explaining circuit propagation. *Constraints*, **2014**, 19, 1-29	0.3	13
176	Minimizing the Maximum Number of Open Stacks by Customer Search. *Lecture Notes in Computer Science*, **2009**, 242-257	0.9	13
175	Incremental Linear Constraint Solving and Detection of Implicit Equalities. *ORSA Journal on Computing*, **1991**, 3, 269-274		13
174	Orthogonal Connector Routing. *Lecture Notes in Computer Science*, **2010**, 219-231	0.9	13
173	Combining String Abstract Domains for JavaScript Analysis: An Evaluation. *Lecture Notes in Computer Science*, **2017**, 41-57	0.9	13
172	The G12 Project: Mapping Solver Independent Models to Efficient Solutions. *Lecture Notes in Computer Science*, **2005**, 9-13	0.9	13
171	Incremental Connector Routing. *Lecture Notes in Computer Science*, **2006**, 446-457	0.9	13
170	Core-Boosted Linear Search for Incomplete MaxSAT. *Lecture Notes in Computer Science*, **2019**, 39-56	0.9	12
169	Horn clauses as an intermediate representation for program analysis and transformation*. *Theory and Practice of Logic Programming*, **2015**, 15, 526-542	0.8	12
168	A Decomposition-Based Heuristic for Collaborative Scheduling in a Network of Open-Pit Mines. *INFORMS Journal on Computing*, **2014**, 26, 658-676	2.4	12
167	MDD propagators with explanation. *Constraints*, **2011**, 16, 407-429	0.3	12
166	Projecting CLPR constraints. *New Generation Computing*, **1993**, 11, 449-469	0.9	12
165	MiniZinc with Functions. *Lecture Notes in Computer Science*, **2013**, 268-283	0.9	12
164	Integrated Task Assignment and Path Planning for Capacitated Multi-Agent Pickup and Delivery. *IEEE Robotics and Automation Letters*, **2021**, 1-1	4.2	12

163	ACD Term Rewriting. *Lecture Notes in Computer Science*, **2006**, 117-131	0.9	12
162	A Model for Inter-module Analysis and Optimizing Compilation. *Lecture Notes in Computer Science*, **2001**, 86-102	0.9	12
161	Discovery and analysis of consistent active sub-networks in cancers. *BMC Bioinformatics*, **2013**, 14 Suppl 2, S7	3.6	11
160	CP and IP approaches to cancer radiotherapy delivery optimization. *Constraints*, **2011**, 16, 173-194	0.3	11
159	Tableau-based protein substructure search using quadratic programming. *BMC Bioinformatics*, **2009** , 10, 153	3.6	11
158	MiniSearch: A Solver-Independent Meta-Search Language for MiniZinc. *Lecture Notes in Computer Science*, **2015**, 376-392	0.9	11
157	Optimal Carpet Cutting. *Lecture Notes in Computer Science*, **2011**, 69-84	0.9	11
156	Optimal Sankey Diagrams Via Integer Programming **2018**,		10
155	The future of optimization technology. *Constraints*, **2014**, 19, 126-138	0.3	10
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147	Optimal k-Level Planarization and Crossing Minimization. *Lecture Notes in Computer Science*, **2011**, 238-249	0.9	9
146	Unbounded Model-Checking with Interpolation for Regular Language Constraints. *Lecture Notes in Computer Science*, **2013**, 277-291	0.9	9

145	Abstract Interpretation over Non-lattice Abstract Domains. *Lecture Notes in Computer Science*, **2013**, 6-24	0.9	9
144	Logistics optimization for a coal supply chain. *Journal of Heuristics*, **2020**, 26, 269-300	1.9	8
143	Statistical inference of protein structural alignments using information and compression. *Bioinformatics*, **2017**, 33, 1005-1013	7.2	7
142	Interval Analysis and Machine Arithmetic. *ACM Transactions on Programming Languages and Systems*, **2015**, 37, 1-35	1.6	7
141	A Lagrangian Relaxation Based Forward-Backward Improvement Heuristic for Maximising the Net Present Value of Resource-Constrained Projects. *Lecture Notes in Computer Science*, **2013**, 340-346	0.9	7
140	Automating branch-and-bound for dynamic programs **2008**,		7
139	Optimizing compilation of CLP(R). *ACM Transactions on Programming Languages and Systems*, **1998**, 20, 1223-1250	1.6	7
138	Fast Node Overlap Removal□orrection **2006**, 446-447		7
137	Boolean Constraints for Binding-Time Analysis. *Lecture Notes in Computer Science*, **2001**, 39-62	0.9	7
136	From High-Level Model to Branch-and-Price Solution in G12 **2008**, 218-232		7
135	Flexible, Rule-Based Constraint Model Linearisation **2008**, 68-83		7
134	The Proper Treatment of Undefinedness in Constraint Languages. *Lecture Notes in Computer Science*, **2009**, 367-382	0.9	7
133	The G12 Project: Mapping Solver Independent Models to Efficient Solutions. *Lecture Notes in Computer Science*, **2005**, 13-16	0.9	7
132	A Framework for Analysis of Typed Logic Programs. *Lecture Notes in Computer Science*, **2001**, 296-310	0.9	7
131	To the Gates of HAL: A HAL Tutorial. *Lecture Notes in Computer Science*, **2002**, 47-66	0.9	7
130	Solver Independent Rotating Workforce Scheduling. *Lecture Notes in Computer Science*, **2018**, 429-445	0.9	6
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128	Optimal guillotine layout **2012**,		6

127	Global difference constraint propagation for finite domain solvers **2008**,		6
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122	Modeling and Solving Project Scheduling with Calendars. *Lecture Notes in Computer Science*, **2015**, 262-278	0.9	6
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118	Reducing Chaos in SAT-Like Search: Finding Solutions Close to a Given One. *Lecture Notes in Computer Science*, **2011**, 273-286	0.9	6
117	Boolean Equi-propagation for Optimized SAT Encoding. *Lecture Notes in Computer Science*, **2011**, 621-636	0.9	6
116	Search Combinators. *Lecture Notes in Computer Science*, **2011**, 774-788	0.9	6
115	Explaining Flow-Based Propagation. *Lecture Notes in Computer Science*, **2012**, 146-162	0.9	6
114	Explaining Propagators for Edge-Valued Decision Diagrams. *Lecture Notes in Computer Science*, **2013**, 340-355	0.9	6
113	On CNF Encodings of Decision Diagrams. *Lecture Notes in Computer Science*, **2016**, 1-17	0.9	6
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111	Symmetries, almost symmetries, and lazy clause generation. *Constraints*, **2014**, 19, 434-462	0.3	5
110	A Declarative Approach to Constrained Community Detection. *Lecture Notes in Computer Science*, **2017**, 477-494	0.9	5

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108	Stable model semantics for founded bounds. *Theory and Practice of Logic Programming*, **2013**, 13, 517-532	2.8	5
107	Constraint Logic Programming. *Foundations of Artificial Intelligence*, **2006**, 409-452		5
106	Branch-and-Cut-and-Price for Multi-Agent Pathfinding **2019**,		5
105	Computing the Margin of Victory in Preferential Parliamentary Elections. *Lecture Notes in Computer Science*, **2018**, 1-16	0.9	5
104	Core-Guided and Core-Boosted Search for CP. *Lecture Notes in Computer Science*, **2020**, 205-221	0.9	5
103	A Bit-Vector Solver with Word-Level Propagation. *Lecture Notes in Computer Science*, **2016**, 374-391	0.9	5
102	MiniZinc with Strings. *Lecture Notes in Computer Science*, **2017**, 59-75	0.9	5
101	To Encode or to Propagate? The Best Choice for Each Constraint in SAT. *Lecture Notes in Computer Science*, **2013**, 97-106	0.9	5
100	Optimisation Modelling for Software Developers. *Lecture Notes in Computer Science*, **2012**, 274-289	0.9	5
99	Solution-Based Phase Saving for CP: A Value-Selection Heuristic to Simulate Local Search Behavior in Complete Solvers. *Lecture Notes in Computer Science*, **2018**, 99-108	0.9	5
98	Pairwise symmetry reasoning for multi-agent path finding search. *Artificial Intelligence*, **2021**, 301, 103574	3.6	5
97	Multi-objective short-term production scheduling for open-pit mines: a hierarchical decomposition-based algorithm. *Engineering Optimization*, **2018**, 50, 2143-2160	2	4
96	Solver-Independent Large Neighbourhood Search. *Lecture Notes in Computer Science*, **2018**, 81-98	0.9	4
95	Toward Computing the Margin of Victory in Single Transferable Vote Elections. *INFORMS Journal on Computing*, **2019**, 31, 636-653	2.4	4
94	Exploiting subproblem dominance in constraint programming. *Constraints*, **2012**, 17, 1-38	0.3	4
93	A CLP heap solver for test case generation. *Theory and Practice of Logic Programming*, **2013**, 13, 721-735	0.8	4
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91	Piecewise linear approximation of protein structures using the principle of minimum message length. *Bioinformatics*, **2011**, 27, i43-51	7.2	4
90	A Hybrid BDD and SAT Finite Domain Constraint Solver. *Lecture Notes in Computer Science*, **2005**, 103-117	0.9	4
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88	Fourier Elimination for Compiling Constraint Hierarchies. *Constraints*, **2002**, 7, 199-219	0.3	4
87	Techniques Inspired by Local Search for Incomplete MaxSAT and the Linear Algorithm: Varying Resolution and Solution-Guided Search. *Lecture Notes in Computer Science*, **2019**, 177-194	0.9	4
86	Parallelizing Constraint Programming with Learning. *Lecture Notes in Computer Science*, **2016**, 142-158	0.9	4
85	A Stochastic Non-CNF SAT Solver. *Lecture Notes in Computer Science*, **2006**, 120-129	0.9	4
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83	Orthogonal Hyperedge Routing. *Lecture Notes in Computer Science*, **2012**, 51-64	0.9	4
82	A Generic Method for Identifying and Exploiting Dominance Relations. *Lecture Notes in Computer Science*, **2012**, 6-22	0.9	4
81	Solving Difference Constraints over Modular Arithmetic. *Lecture Notes in Computer Science*, **2013**, 215-230	0.9	4
80	Encoding Linear Constraints with Implication Chains to CNF. *Lecture Notes in Computer Science*, **2015**, 3-11	0.9	4
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78	Constraints for symmetry breaking in graph representation. *Constraints*, **2019**, 24, 1-24	0.3	4
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75	Propagating lex, find and replace with Dashed Strings. *Lecture Notes in Computer Science*, **2018**, 18-34	0.9	3
74	A practical object-oriented analysis engine for CLP **1998**, 28, 199-224		3

73	Solving Partial Order Constraints for LPO Termination. *Journal of Satisfiability, Boolean Modeling and Computation*, **2008**, 5, 193-215	1.2	3
72	Modelling with Option Types in MiniZinc. *Lecture Notes in Computer Science*, **2014**, 88-103	0.9	3
71	Explaining Producer/Consumer Constraints. *Lecture Notes in Computer Science*, **2016**, 438-454	0.9	3
70	Explaining Propagators for s-DNNF Circuits. *Lecture Notes in Computer Science*, **2012**, 195-210	0.9	3
69	There Are No CNF Problems. *Lecture Notes in Computer Science*, **2013**, 19-21	0.9	3
68	Inter-instance Nogood Learning in Constraint Programming. *Lecture Notes in Computer Science*, **2012**, 238-247	0.9	3
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66	Compiling CP subproblems to MDDs and d-DNNFs. *Constraints*, **2019**, 24, 56-93	0.3	3
65	Declarative Local-Search Neighbourhoods in MiniZinc **2018**,		3
64	Auditing Hamiltonian Elections. *Lecture Notes in Computer Science*, **2021**, 235-250	0.9	3
63	Statistical Compression of Protein Folding Patterns for Inference of Recurrent Substructural Themes **2017**,		2
62	How precise are reported protein coordinate data?. *Acta Crystallographica Section D: Biological Crystallography*, **2014**, 70, 904-6		2
61	Optimal automatic table layout **2011**,		2
60	Building Constraint Solvers with HAL. *Lecture Notes in Computer Science*, **2001**, 90-104	0.9	2
59	Compiling Conditional Constraints. *Lecture Notes in Computer Science*, **2019**, 384-400	0.9	2
58	A Satisfiability Solving Approach **2015**, 135-160		2
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56	A Benders Decomposition Approach to Deciding Modular Linear Integer Arithmetic. *Lecture Notes in Computer Science*, **2017**, 380-397	0.9	2

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54	Stochastic MiniZinc. *Lecture Notes in Computer Science*, **2014**, 636-645	0.9	2
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52	Assertion-Based Approaches to Auditing Complex Elections, with Application to Party-List Proportional Elections. *Lecture Notes in Computer Science*, **2021**, 47-62	0.9	2
51	Propagating Regular Membership with Dashed Strings. *Lecture Notes in Computer Science*, **2018**, 13-29	0.9	2
50	Effective Strictness Analysis with HORN Constraints. *Lecture Notes in Computer Science*, **2001**, 73-92	0.9	2
49	Two type extensions for the constraint modeling language MiniZinc. *Science of Computer Programming*, **2015**, 111, 156-189	1.1	1
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47	Finite type extensions in constraint programming **2013**,		1
46	Statistical Inference of Protein "LEGO Bricks" **2013**,		1
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43	Checking modes of HAL programs. *Theory and Practice of Logic Programming*, **2005**, 5, 623-667	0.8	1
42	Exception analysis for non-strict languages. *ACM SIGPLAN Notices*, **2002**, 37, 98-109	0.2	1
41	Breaking Symmetries with Lex Implications. *Lecture Notes in Computer Science*, **2018**, 182-197	0.9	1
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35	A practical object-oriented analysis engine for CLP **1998**, 28, 199		1
34	Dashed Strings and the Replace(-all) Constraint. *Lecture Notes in Computer Science*, **2020**, 3-20	0.9	0
33	Fast optimal and bounded suboptimal Euclidean pathfinding. *Artificial Intelligence*, **2022**, 302, 103624	3.6	0
32	Exact Approaches to the Multi-agent Collective Construction Problem. *Lecture Notes in Computer Science*, **2020**, 743-758	0.9	0
31	Algorithm Selection for Dynamic Symbolic Execution: A Preliminary Study. *Lecture Notes in Computer Science*, **2021**, 192-209	0.9	0
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29	Branch-and-cut-and-price for the Electric Vehicle Routing Problem with Time Windows, Piecewise-Linear Recharging and Capacitated Recharging Stations. *Computers and Operations Research*, **2022**, 105870	4.6	0
28	Automatic Minimal-Height Table Layout. *INFORMS Journal on Computing*, **2015**, 27, 449-461	2.4	
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26	Propagating systems of dense linear integer constraints. *Constraints*, **2009**, 14, 235-253	0.3	
25	Introduction to the Special Issue on Constraints and Databases. *Constraints*, **1997**, 2, 243-243	0.3	
24	Improving PARMA trailing. *Theory and Practice of Logic Programming*, **2006**, 6, 609-644	0.8	
23	Solving Satisfaction Problems Using Large-Neighbourhood Search. *Lecture Notes in Computer Science*, **2020**, 55-71	0.9	
22	Shifting the Balance-of-Power in STV Elections. *Lecture Notes in Computer Science*, **2020**, 1-18	0.9	
21	Lightweight Nontermination Inference with CHCs. *Lecture Notes in Computer Science*, **2021**, 383-402	0.9	
20	Disjunctive Interval Analysis. *Lecture Notes in Computer Science*, **2021**, 144-165	0.9	

19	Dissecting Widening: Separating Termination from Information. *Lecture Notes in Computer Science*, **2019**, 95-114	0.9
18	Exploring Declarative Local-Search Neighbourhoods with Constraint Programming. *Lecture Notes in Computer Science*, **2019**, 37-53	0.9
17	Large Neighborhood Search for Temperature Control with Demand Response. *Lecture Notes in Computer Science*, **2020**, 603-619	0.9
16	The Argmax Constraint. *Lecture Notes in Computer Science*, **2020**, 323-337	0.9
15	Theoretical and Experimental Results for Planning with Learned Binarized Neural Network Transition Models. *Lecture Notes in Computer Science*, **2020**, 917-934	0.9
14	Aggregation and Garbage Collection for Online Optimization. *Lecture Notes in Computer Science*, **2020**, 231-247	0.9
13	Random Errors Are Not Necessarily Politically Neutral. *Lecture Notes in Computer Science*, **2020**, 19-35	0.9
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