

Martin C Cooper

List of Publications by Year in descending order

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Version: 2024-02-01

67
papers

1,509
citations

430754

18
h-index

345118

36
g-index

78
all docs

78
docs citations

78
times ranked

350
citing authors

#	ARTICLE	IF	CITATIONS
1	Constraints, consistency and closure. <i>Artificial Intelligence</i> , 1998, 101, 251-265.	3.9	162
2	Tractable constraints on ordered domains. <i>Artificial Intelligence</i> , 1995, 79, 327-339.	3.9	127
3	An optimal k-consistency algorithm. <i>Artificial Intelligence</i> , 1989, 41, 89-95.	3.9	105
4	Soft arc consistency revisited. <i>Artificial Intelligence</i> , 2010, 174, 449-478.	3.9	97
5	Characterising tractable constraints. <i>Artificial Intelligence</i> , 1994, 65, 347-361.	3.9	96
6	The complexity of soft constraint satisfaction. <i>Artificial Intelligence</i> , 2006, 170, 983-1016.	3.9	96
7	Arc consistency for soft constraints. <i>Artificial Intelligence</i> , 2004, 154, 199-227.	3.9	80
8	Generalizing constraint satisfaction on trees: Hybrid tractability and variable elimination. <i>Artificial Intelligence</i> , 2010, 174, 570-584.	3.9	54
9	Reduction operations in fuzzy or valued constraint satisfaction. <i>Fuzzy Sets and Systems</i> , 2003, 134, 311-342.	1.6	40
10	The Tractability of Segmentation and Scene Analysis. <i>International Journal of Computer Vision</i> , 1998, 30, 27-42.	10.9	37
11	High-Order Consistency in Valued Constraint Satisfaction. <i>Constraints</i> , 2005, 10, 283-305.	0.4	34
12	An Algebraic Theory of Complexity for Discrete Optimization. <i>SIAM Journal on Computing</i> , 2013, 42, 1915-1939.	0.8	34
13	Generalising submodularity and horn clauses: Tractable optimization problems defined by tournament pair multimorphisms. <i>Theoretical Computer Science</i> , 2008, 401, 36-51.	0.5	33
14	Hybrid tractability of valued constraint problems. <i>Artificial Intelligence</i> , 2011, 175, 1555-1569.	3.9	32
15	Supermodular functions and the complexity of MAX CSP. <i>Discrete Applied Mathematics</i> , 2005, 149, 53-72.	0.5	31
16	Fundamental properties of neighbourhood substitution in constraint satisfaction problems. <i>Artificial Intelligence</i> , 1997, 90, 1-24.	3.9	27
17	Tractability in constraint satisfaction problems: a survey. <i>Constraints</i> , 2016, 21, 115-144.	0.4	24
18	An Algebraic Characterisation of Complexity for Valued Constraint. <i>Lecture Notes in Computer Science</i> , 2006, , 107-121.	1.0	23

#	ARTICLE	IF	CITATIONS
19	Interpretation of line drawings of complex objects. <i>Image and Vision Computing</i> , 1993, 11, 82-90.	2.7	19
20	Minimization of Locally Defined Submodular Functions by Optimal Soft Arc Consistency. <i>Constraints</i> , 2008, 13, 437-458.	0.4	19
21	Interpreting line drawings of curved objects with tangential edges and surfaces. <i>Image and Vision Computing</i> , 1997, 15, 263-276.	2.7	18
22	Linear-time algorithms for testing the realisability of line drawings of curved objects. <i>Artificial Intelligence</i> , 1999, 108, 31-67.	3.9	18
23	Wireframe Projections: Physical Realisability of Curved Objects and Unambiguous Reconstruction of Simple Polyhedra. <i>International Journal of Computer Vision</i> , 2005, 64, 69-88.	10.9	17
24	The Tractability of CSP Classes Defined by Forbidden Patterns. <i>Journal of Artificial Intelligence Research</i> , 0, 45, 47-78.	7.0	14
25	A Mathematical Model of Historical Semantics and the Grouping of Word Meanings into Concepts. <i>Computational Linguistics</i> , 2005, 31, 227-248.	2.5	13
26	The Interpretation of Line Drawings with Contrast Failure and Shadows. <i>International Journal of Computer Vision</i> , 2001, 43, 75-97.	10.9	12
27	Soft Constraints: Complexity and Multimorphisms. <i>Lecture Notes in Computer Science</i> , 2003, , 244-258.	1.0	12
28	Variable and value elimination in binary constraint satisfaction via forbidden patterns. <i>Journal of Computer and System Sciences</i> , 2015, 81, 1127-1143.	0.9	11
29	Broken triangles: From value merging to a tractable class of general-arity constraint satisfaction problems. <i>Artificial Intelligence</i> , 2016, 234, 196-218.	3.9	11
30	A Rich Discrete Labeling Scheme for Line Drawings of Curved Objects. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2008, 30, 741-745.	9.7	10
31	A Complete Characterization of Complexity for Boolean Constraint Optimization Problems. <i>Lecture Notes in Computer Science</i> , 2004, , 212-226.	1.0	10
32	Beyond Consistency and Substitutability. <i>Lecture Notes in Computer Science</i> , 2014, , 256-271.	1.0	9
33	The epistemic gossip problem. <i>Discrete Mathematics</i> , 2019, 342, 654-663.	0.4	9
34	Semantic Distance Measures. <i>Computational Intelligence</i> , 2000, 16, 79-94.	2.1	8
35	Measuring the Semantic Distance between Languages from a Statistical Analysis of Bilingual Dictionaries*. <i>Journal of Quantitative Linguistics</i> , 2008, 15, 1-33.	0.7	8
36	A Microstructure-Based Family of Tractable Classes for CSPs. <i>Lecture Notes in Computer Science</i> , 2015, , 74-88.	1.0	8

#	ARTICLE	IF	CITATIONS
37	On Guaranteeing Polynomially Bounded Search Tree Size. Lecture Notes in Computer Science, 2011, , 160-171.	1.0	8
38	Linear constraints for the interpretation of line drawings of curved objects. Artificial Intelligence, 2000, 119, 235-258.	3.9	7
39	Cyclic consistency: A local reduction operation for binary valued constraints. Artificial Intelligence, 2004, 155, 69-92.	3.9	7
40	MANAGING TEMPORAL CYCLES IN PLANNING PROBLEMS REQUIRING CONCURRENCY. Computational Intelligence, 2013, 29, 111-128.	2.1	7
41	Characterising the complexity of constraint satisfaction problems defined by 2-constraint forbidden patterns. Discrete Applied Mathematics, 2015, 184, 89-113.	0.5	7
42	A weighted CSP approach to cost-optimal planning. AI Communications, 2011, 24, 1-29.	0.8	6
43	A lightweight epistemic logic and its application to planning. Artificial Intelligence, 2021, 298, 103437.	3.9	6
44	Efficient systematic analysis of occlusion. Pattern Recognition Letters, 1988, 7, 259-264.	2.6	5
45	A substitution operation for constraints. Lecture Notes in Computer Science, 1994, , 1-9.	1.0	5
46	Constraints Between Distant Lines in the Labelling of Line Drawings of Polyhedral Scenes. International Journal of Computer Vision, 2007, 73, 195-212.	10.9	5
47	The Power of Arc Consistency for CSPs Defined by Partially-Ordered Forbidden Patterns. , 2016, , .		5
48	Valued Constraint Satisfaction Problems. , 2020, , 185-207.		5
49	Compilation of a High-level Temporal Planning Language into PDDL 2.1. , 2010, , .		4
50	Extending Broken Triangles and Enhanced Value-Merging. Lecture Notes in Computer Science, 2016, , 173-188.	1.0	4
51	Binary constraint satisfaction problems defined by excluded topological minors. Information and Computation, 2019, 264, 12-31.	0.5	4
52	Estimating optimal parameters for parallel database hardware. International Journal of Systems Science, 1992, 23, 119-125.	3.7	3
53	On Singleton Arc Consistency for CSPs Defined by Monotone Patterns. Algorithmica, 2019, 81, 1699-1727.	1.0	3
54	Identifying Efficiently Solvable Cases of Max CSP. Lecture Notes in Computer Science, 2004, , 152-163.	1.0	3

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55	Solving Temporally-Cyclic Planning Problems. , 2010, , .		2
56	Relaxation of Temporal Planning Problems. , 2013, , .		2
57	A New Hybrid Tractable Class of Soft Constraint Problems. Lecture Notes in Computer Science, 2010, , 152-166.	1.0	2
58	Tractable Triangles. Lecture Notes in Computer Science, 2011, , 195-209.	1.0	2
59	Accelerated analysis of occlusion. Image and Vision Computing, 1988, 6, 3-12.	2.7	1
60	Transformation of optimal planning problems. Journal of Experimental and Theoretical Artificial Intelligence, 2011, 23, 181-199.	1.8	1
61	Binarisation for Valued Constraint Satisfaction Problems. SIAM Journal on Discrete Mathematics, 2017, 31, 2279-2300.	0.4	1
62	Domain Reduction for Valued Constraints by Generalising Methods from CSP. Lecture Notes in Computer Science, 2018, , 64-80.	1.0	1
63	A polynomial relational class of binary CSP. Annals of Mathematics and Artificial Intelligence, 2018, 83, 1-20.	0.9	0
64	Galois Connections for Patterns: An Algebra of Labelled Graphs. Lecture Notes in Computer Science, 2021, , 125-150.	1.0	0
65	Transformation de problÃ©mes de planification optimale. Revue D'Intelligence Artificielle, 2010, 24, 465-484.	0.5	0
66	Variable Elimination in Binary CSPs. Journal of Artificial Intelligence Research, 0, 66, 589-624.	7.0	0
67	Strengthening Neighbourhood Substitution. Lecture Notes in Computer Science, 2020, , 126-142.	1.0	0