

Craig Tovey

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

3,137
citations

331259

21
h-index

174990

52
g-index

67
all docs

67
docs citations

67
times ranked

2037
citing authors

#	ARTICLE	IF	CITATIONS
1	Voting schemes for which it can be difficult to tell who won the election. <i>Social Choice and Welfare</i> , 1989, 6, 157-165.	0.4	379
2	The computational difficulty of manipulating an election. <i>Social Choice and Welfare</i> , 1989, 6, 227-241.	0.4	302
3	Individual differences versus social dynamics in the formation of animal dominance hierarchies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 5744-5749.	3.3	273
4	A simplified NP-complete satisfiability problem. <i>Discrete Applied Mathematics</i> , 1984, 8, 85-89.	0.5	259
5	On Honey Bees and Dynamic Server Allocation in Internet Hosting Centers. <i>Adaptive Behavior</i> , 2004, 12, 223-240.	1.1	229
6	Fire ants self-assemble into waterproof rafts to survive floods. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 7669-7673.	3.3	223
7	Automatic generation of linear-time algorithms from predicate calculus descriptions of problems on recursively constructed graph families. <i>Algorithmica</i> , 1992, 7, 555-581.	1.0	206
8	Auction-Based Multi-Robot Routing. , 0, , .		159
9	New Results on the Old k-opt Algorithm for the Traveling Salesman Problem. <i>SIAM Journal on Computing</i> , 1999, 28, 1998-2029.	0.8	95
10	Why search time to find a food-storer bee accurately indicates the relative rates of nectar collecting and nectar processing in honey bee colonies. <i>Animal Behaviour</i> , 1994, 47, 311-316.	0.8	93
11	The Generation of Bidding Rules for Auction-Based Robot Coordination. , 2005, , 3-14.		63
12	Performance bounds for planning in unknown terrain. <i>Artificial Intelligence</i> , 2003, 147, 253-279.	3.9	58
13	Two's Company, Three's a Crowd: Differences in Dominance Relationships in Isolated Versus Socially Embedded Pairs of Fish. <i>Behaviour</i> , 2003, 140, 1193-1217.	0.4	58
14	Replacement under ongoing technological progress. <i>IIE Transactions</i> , 2004, 36, 497-508.	2.1	52
15	Local optimization on graphs. <i>Discrete Applied Mathematics</i> , 1989, 23, 157-178.	0.5	49
16	The Pattern and Effectiveness of Forager Allocation Among Flower Patches by Honey Bee Colonies. <i>Journal of Theoretical Biology</i> , 1993, 160, 23-40.	0.8	45
17	Fire ants perpetually rebuild sinking towers. <i>Royal Society Open Science</i> , 2017, 4, 170475.	1.1	39
18	Analyzing the Multiple-target-multiple-agent Scenario Using Optimal Assignment Algorithms. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2002, 35, 111-122.	2.0	38

#	ARTICLE	IF	CITATIONS
19	Planar Ramsey Numbers. Journal of Combinatorial Theory Series B, 1993, 59, 288-296.	0.6	34
20	Probability and convergence for supra-majority rule with Euclidean preferences. Mathematical and Computer Modelling, 1992, 16, 41-58.	2.0	31
21	Dynamics and shape of large fire ant rafts. Communicative and Integrative Biology, 2012, 5, 590-597.	0.6	29
22	Improving Sequential Single-Item Auctions. , 2006, , .		26
23	Multi-robot routing with rewards and disjoint time windows. , 2007, , .		25
24	Algorithms and complexity results for graph-based pursuit evasion. Autonomous Robots, 2011, 31, 317-332.	3.2	25
25	Adaptive Evolution of Teaching Practices in Biologically Inspired Design. , 2014, , 153-199.		23
26	Low order polynomial bounds on the expected performance of local improvement algorithms. Mathematical Programming, 1986, 35, 193-224.	1.6	21
27	Recognizing majority-rule equilibrium in spatial voting games. Social Choice and Welfare, 1991, 8, 183-197.	0.4	21
28	From honeybees to Internet servers: biomimicry for distributed management of Internet hosting centers. Bioinspiration and Biomimetics, 2007, 2, S182-S197.	1.5	21
29	The instability of instability of centered distributions. Mathematical Social Sciences, 2010, 59, 53-73.	0.3	18
30	Probabilities of Preferences and Cycles with Super Majority Rules. Journal of Economic Theory, 1997, 75, 271-279.	0.5	17
31	Connect the dots: how many random points can a regular curve pass through?. Advances in Applied Probability, 2005, 37, 571-603.	0.4	17
32	A polynomial-time algorithm for computing the yolk in fixed dimension. Mathematical Programming, 1992, 57, 259-277.	1.6	16
33	Limiting median lines do not suffice to determine the yolk. Social Choice and Welfare, 1992, 9, 33.	0.4	14
34	Title is missing!. Computational Optimization and Applications, 2001, 18, 233-250.	0.9	14
35	Dividing and conquering the square. Discrete Applied Mathematics, 1993, 43, 131-153.	0.5	10
36	Multiple optima in local search. Journal of Algorithms, 1987, 8, 250-259.	0.9	9

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37	A critique of distributional analysis in the spatial model. <i>Mathematical Social Sciences</i> , 2010, 59, 88-101.	0.3	9
38	On the number of iterations of local improvement algorithms. <i>Operations Research Letters</i> , 1983, 2, 231-238.	0.5	8
39	Localization: Approximation and Performance Bounds to Minimize Travel Distance. <i>IEEE Transactions on Robotics</i> , 2010, 26, 320-330.	7.3	8
40	Optimal Selection of the Most Probable Multinomial Alternative. <i>Sequential Analysis</i> , 2014, 33, 491-508.	0.2	8
41	Asymmetric probabilistic prospects of Stackelberg players. <i>Journal of Optimization Theory and Applications</i> , 1991, 68, 139-159.	0.8	7
42	Simple lifted cover inequalities and hard knapsack problems. <i>Discrete Optimization</i> , 2005, 2, 219-228.	0.6	7
43	Time horizons of environmental versus non-environmental costs: evidence from US tort lawsuits. <i>Business Strategy and the Environment</i> , 2007, 16, 249-265.	8.5	7
44	The probability of an undominated central voter in 2-dimensional spatial majority voting. <i>Social Choice and Welfare</i> , 1992, 9, 43.	0.4	6
45	Optimal Online Algorithms for Minimax Resource Scheduling. <i>SIAM Journal on Discrete Mathematics</i> , 2003, 16, 555-590.	0.4	6
46	Bounds on the Travel Cost of a Mars Rover Prototype Search Heuristic. <i>SIAM Journal on Discrete Mathematics</i> , 2005, 19, 431-447.	0.4	6
47	Approximation of the yolk by the LP yolk. <i>Mathematical Social Sciences</i> , 2010, 59, 102-109.	0.3	6
48	Affirmative action algorithms. <i>Mathematical Programming</i> , 1986, 34, 292-301.	1.6	5
49	Finding Saddlepoints of Two-Person, Zero Sum Games. <i>American Mathematical Monthly</i> , 1988, 95, 912-918.	0.2	5
50	The almost surely shrinking yolk. <i>Mathematical Social Sciences</i> , 2010, 59, 74-87.	0.3	5
51	On the uniqueness of the yolk. <i>Social Choice and Welfare</i> , 2016, 47, 511-518.	0.4	5
52	Algorithms for recognition of regular properties and decomposition of recursive graph families. <i>Annals of Operations Research</i> , 1991, 33, 125-149.	2.6	4
53	Smallest tournaments not realizable by $\frac{2}{3}$ -majority voting. <i>Social Choice and Welfare</i> , 2009, 33, 495-503.	0.4	4
54	A Near-Tight Approximation Algorithm for the Robot Localization Problem. <i>SIAM Journal on Computing</i> , 2009, 39, 461-490.	0.8	4

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55	Networks and chain coverings in partial orders and their products. <i>Order</i> , 1985, 2, 49-60.	0.3	3
56	Local optimization on graphs. <i>Discrete Applied Mathematics</i> , 1993, 46, 93-94.	0.5	3
57	Non-approximability of precedence-constrained sequencing to minimize setups. <i>Discrete Applied Mathematics</i> , 2004, 134, 351-360.	0.5	3
58	Polarity and the complexity of the shooting experiment. <i>Discrete Optimization</i> , 2008, 5, 541-549.	0.6	3
59	The probability of majority rule instability in the 2D euclidean model with an even number of voters. <i>Social Choice and Welfare</i> , 2010, 35, 705-708.	0.4	3
60	A finite exact algorithm for epsilon-core membership in two dimensions. <i>Mathematical Social Sciences</i> , 2010, 60, 178-180.	0.3	3
61	The Slippage Configuration Is Always the Least Favorable Configuration for Two Alternatives. <i>Sequential Analysis</i> , 2014, 33, 509-518.	0.2	3
62	The complexity of power indexes with graph restricted coalitions. <i>Mathematical Social Sciences</i> , 2015, 76, 53-63.	0.3	3
63	An improved implementation and analysis of the Diaz and O'Rourke algorithm for finding the Simpson point of a convex polygon. <i>International Journal of Computer Mathematics</i> , 2010, 87, 244-259.	1.0	1
64	Optimal solution to the multinomial selection problem for two alternatives. <i>Sequential Analysis</i> , 2017, 36, 415-432.	0.2	1
65	Pursuit-Evasion Problems. <i>Discrete Mathematics and Its Applications</i> , 2013, , 1145-1164.	0.1	1