Craig Tovey

List of Publications by Year
in descending order

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	Optimal solution to the multinomial selection problem for two alternatives. Sequential Analysis, 2017, 36, 415-432.	0.2	1
2	Fire ants perpetually rebuild sinking towers. Royal Society Open Science, 2017, 4, 170475.	1.1	39
3	On the uniqueness of the yolk. Social Choice and Welfare, 2016, 47, 511-518.	0.4	5
4	The complexity of power indexes with graph restricted coalitions. Mathematical Social Sciences, 2015, 76, 53-63.	0.3	3
5	The Slippage Configuration Is Always the Least Favorable Configuration for Two Alternatives. Sequential Analysis, 2014, 33, 509-518.	0.2	3
6	Optimal Selection of the Most Probable Multinomial Alternative. Sequential Analysis, 2014, 33, 491-508.	0.2	8
7	Adaptive Evolution of Teaching Practices in Biologically Inspired Design. , 2014, , 153-199.		23
8	Pursuit-Evasion Problems. Discrete Mathematics and Its Applications, 2013, , 1145-1164.	0.1	1
9	Dynamics and shape of large fire ant rafts. Communicative and Integrative Biology, 2012, 5, 590-597.	0.6	29
10	Fire ants self-assemble into waterproof rafts to survive floods. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 7669-7673.	3.3	223
11	Algorithms and complexity results for graph-based pursuit evasion. Autonomous Robots, 2011, 31, 317-332.	3.2	25
12	The probability of majority rule instability in the 2D euclidean model with an even number of voters. Social Choice and Welfare, 2010, 35, 705-708.	0.4	3
13	The instability of instability of centered distributions. Mathematical Social Sciences, 2010, 59, 53-73.	0.3	18
14	Approximation of the yolk by the LP yolk. Mathematical Social Sciences, 2010, 59, 102-109.	0.3	6
15	A critique of distributional analysis in the spatial model. Mathematical Social Sciences, 2010, 59, 88-101.	0.3	9
16	The almost surely shrinking yolk. Mathematical Social Sciences, 2010, 59, 74-87.	0.3	5
17	A finite exact algorithm for epsilon-core membership in two dimensions. Mathematical Social Sciences, 2010, 60, 178-180.	0.3	3
18	An improved implementation and analysis of the Diaz and O'Rourke algorithm for finding the Simpson point of a convex polygon. International Journal of Computer Mathematics, 2010, 87, 244-259.	1.0	1

#	Article	IF	Citations
19	Localization: Approximation and Performance Bounds to Minimize Travel Distance. IEEE Transactions on Robotics, 2010, 26, 320-330.	7.3	8
20	Smallest tournaments not realizable by $$\frac{2}{3}$$ -majority voting. Social Choice and Welfare, 2009, 33, 495-503.	0.4	4
21	A Near-Tight Approximation Algorithm for the Robot Localization Problem. SIAM Journal on Computing, 2009, 39, 461-490.	0.8	4
22	Polarity and the complexity of the shooting experiment. Discrete Optimization, 2008, 5, 541-549.	0.6	3
23	Multi-robot routing with rewards and disjoint time windows. , 2007, , .		25
24	From honeybees to Internet servers: biomimicry for distributed management of Internet hosting centers. Bioinspiration and Biomimetics, 2007, 2, S182-S197.	1.5	21
25	Time horizons of environmental versus non-environmental costs: evidence from US tort lawsuits. Business Strategy and the Environment, 2007, 16, 249-265.	8.5	7
26	Improving Sequential Single-Item Auctions. , 2006, , .		26
27	Simple lifted cover inequalities and hard knapsack problems. Discrete Optimization, 2005, 2, 219-228.	0.6	7
28	The Generation of Bidding Rules for Auction-Based Robot Coordination. , 2005, , 3-14.		63
29	Bounds on the Travel Cost of a Mars Rover Prototype Search Heuristic. SIAM Journal on Discrete Mathematics, 2005, 19, 431-447.	0.4	6
30	Connect the dots: how many random points can a regular curve pass through?. Advances in Applied Probability, 2005, 37, 571-603.	0.4	17
31	Non-approximability of precedence-constrained sequencing to minimize setups. Discrete Applied Mathematics, 2004, 134, 351-360.	0.5	3
32	Replacement under ongoing technological progress. IIE Transactions, 2004, 36, 497-508.	2.1	52
33	On Honey Bees and Dynamic Server Allocation in Internet Hosting Centers. Adaptive Behavior, 2004, 12, 223-240.	1.1	229
34	Performance bounds for planning in unknown terrain. Artificial Intelligence, 2003, 147, 253-279.	3.9	58
35	Optimal Online Algorithms for Minimax Resource Scheduling. SIAM Journal on Discrete Mathematics, 2003, 16, 555-590.	0.4	6
36	Two's Company, Three's a Crowd: Differences in Dominance Relationships in Isolated Versus Socially Embedded Pairs of Fish. Behaviour, 2003, 140, 1193-1217.	0.4	58

#	ARTICLE	IF	CITATIONS
37	Individual differences versus social dynamics in the formation of animal dominance hierarchies. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 5744-5749.	3.3	273
38	Analyzing the Multiple-target-multiple-agent Scenario Using Optimal Assignment Algorithms. Journal of Intelligent and Robotic Systems: Theory and Applications, 2002, 35, 111-122.	2.0	38
39	Title is missing!. Computational Optimization and Applications, 2001, 18, 233-250.	0.9	14
40	New Results on the Old k-opt Algorithm for the Traveling Salesman Problem. SIAM Journal on Computing, 1999, 28, 1998-2029.	0.8	95
41	Probabilities of Preferences and Cycles with Super Majority Rules. Journal of Economic Theory, 1997, 75, 271-279.	0.5	17
42	Why search time to find a food-storer bee accurately indicates the relative rates of nectar collecting and nectar processing in honey bee colonies. Animal Behaviour, 1994, 47, 311-316.	0.8	93
43	The Pattern and Effectiveness of Forager Allocation Among Flower Patches by Honey Bee Colonies. Journal of Theoretical Biology, 1993, 160, 23-40.	0.8	45
44	Planar Ramsey Numbers. Journal of Combinatorial Theory Series B, 1993, 59, 288-296.	0.6	34
45	Dividing and conquering the square. Discrete Applied Mathematics, 1993, 43, 131-153.	0.5	10
46	Local optimization on graphs. Discrete Applied Mathematics, 1993, 46, 93-94.	0.5	3
47	Limiting median lines do not suffice to determine the yolk. Social Choice and Welfare, 1992, 9, 33.	0.4	14
48	The probability of an undominated central voter in 2-dimensional spatial majority voting. Social Choice and Welfare, 1992, 9, 43.	0.4	6
49	Probability and convergence for supra-majority rule with Euclidean preferences. Mathematical and Computer Modelling, 1992, 16, 41-58.	2.0	31
50	A polynomial-time algorithm for computing the yolk in fixed dimension. Mathematical Programming, 1992, 57, 259-277.	1.6	16
51	Automatic generation of linear-time algorithms from predicate calculus descriptions of problems on recursively constructed graph families. Algorithmica, 1992, 7, 555-581.	1.0	206
52	Algorithms for recognition of regular properties and decomposition of recursive graph families. Annals of Operations Research, 1991, 33, 125-149.	2.6	4
53	Asymmetric probabilistic prospects of Stackelberg players. Journal of Optimization Theory and Applications, 1991, 68, 139-159.	0.8	7
54	Recognizing majority-rule equilibrium in spatial voting games. Social Choice and Welfare, 1991, 8, 183-197.	0.4	21

#	Article	IF	Citations
55	Local optimization on graphs. Discrete Applied Mathematics, 1989, 23, 157-178.	0.5	49
56	Voting schemes for which it can be difficult to tell who won the election. Social Choice and Welfare, 1989, 6, 157-165.	0.4	379
57	The computational difficulty of manipulating an election. Social Choice and Welfare, 1989, 6, 227-241.	0.4	302
58	Finding Saddlepoints of Two-Person, Zero Sum Games. American Mathematical Monthly, 1988, 95, 912-918.	0.2	5
59	Multiple optima in local search. Journal of Algorithms, 1987, 8, 250-259.	0.9	9
60	Low order polynomial bounds on the expected performance of local improvement algorithms. Mathematical Programming, 1986, 35, 193-224.	1.6	21
61	Affirmative action algorithms. Mathematical Programming, 1986, 34, 292-301.	1.6	5
62	Networks and chain coverings in partial orders and their products. Order, 1985, 2, 49-60.	0.3	3
63	A simplified NP-complete satisfiability problem. Discrete Applied Mathematics, 1984, 8, 85-89.	0.5	259
64	On the number of iterations of local improvement algorithms. Operations Research Letters, 1983, 2, 231-238.	0.5	8
65	Auction-Based Multi-Robot Routing. , 0, , .		159