

David P Williamson

List of Publications by Year in descending order

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47
papers

4,738
citations

566801

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h-index

329751

37
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all docs

55
docs citations

55
times ranked

2579
citing authors

#	ARTICLE	IF	CITATIONS
1	The Circlet Inequalities: A New, Circulant-Based, Facet-Defining Inequality for the TSP. <i>Mathematics of Operations Research</i> , 2023, 48, 393-418.	0.8	0
2	Semidefinite Programming Relaxations of the Traveling Salesman Problem and Their Integrality Gaps. <i>Mathematics of Operations Research</i> , 2022, 47, 1-28.	0.8	1
3	Tight Bounds for Online Weighted Tree Augmentation. <i>Algorithmica</i> , 2022, 84, 304-324.	1.0	0
4	Budgeted Prize-Collecting Traveling Salesman and Minimum Spanning Tree Problems. <i>Mathematics of Operations Research</i> , 2020, 45, 576-590.	0.8	14
5	Easy capacitated facility location problems, with connections to lot-sizing. <i>Operations Research Letters</i> , 2020, 48, 109-114.	0.5	1
6	Preliminaries: Shortest Path Algorithms. , 2019, , 1-22.		0
7	Maximum Flow Algorithms. , 2019, , 23-79.		0
8	Global Minimum Cut Algorithms. , 2019, , 80-115.		0
9	More Maximum Flow Algorithms. , 2019, , 116-131.		0
10	Minimum-Cost Circulation Algorithms. , 2019, , 132-187.		0
11	Generalized Flow Algorithms. , 2019, , 188-223.		0
12	Multicommodity Flow Algorithms. , 2019, , 224-252.		0
13	Electrical Flow Algorithms. , 2019, , 253-290.		0
14	Open Questions. , 2019, , 291-293.		0
15	Simple Approximation Algorithms for Balanced MAX ² SAT. <i>Algorithmica</i> , 2018, 80, 995-1012.	1.0	2
16	Online Constrained Forest and Prize-Collecting Network Design. <i>Algorithmica</i> , 2018, 80, 3335-3364.	1.0	3
17	Maximizing a Submodular Function with Viability Constraints. <i>Algorithmica</i> , 2017, 77, 152-172.	1.0	0
18	Pricing Problems Under the Nested Logit Model with a Quality Consistency Constraint. <i>INFORMS Journal on Computing</i> , 2017, 29, 54-76.	1.0	12

#	ARTICLE	IF	CITATIONS
19	Greedy algorithms for the single-demand facility location problem. <i>Operations Research Letters</i> , 2017, 45, 452-455.	0.5	6
20	Greedy Algorithms for the Maximum Satisfiability Problem: Simple Algorithms and Inapproximability Bounds. <i>SIAM Journal on Computing</i> , 2017, 46, 1029-1061.	0.8	27
21	An Experimental Evaluation of the Best-of-Many Christofides's Algorithm for the Traveling Salesman Problem. <i>Algorithmica</i> , 2017, 78, 1109-1130.	1.0	9
22	An Experimental Evaluation of Fast Approximation Algorithms for the Maximum Satisfiability Problem. <i>Lecture Notes in Computer Science</i> , 2016, , 246-261.	1.0	6
23	A Randomized $O(\log n)$ -Competitive Algorithm for the Online Connected Facility Location Problem. <i>Algorithmica</i> , 2016, 76, 1139-1157.	1.0	5
24	The Online Prize-Collecting Facility Location Problem. <i>Electronic Notes in Discrete Mathematics</i> , 2015, 50, 151-156.	0.4	4
25	On the integrality gap of the subtour LP for the 1,2-TSP. <i>Mathematical Programming</i> , 2015, 150, 131-151.	1.6	4
26	A $3/2$ -approximation algorithm for some minimum-cost graph problems. <i>Mathematical Programming</i> , 2015, 150, 19-34.	1.6	1
27	An Experimental Evaluation of the Best-of-Many Christofides's Algorithm for the Traveling Salesman Problem. <i>Lecture Notes in Computer Science</i> , 2015, , 570-581.	1.0	8
28	2-Matchings, the Traveling Salesman Problem, and the Subtour LP: A Proof of the Boyd-Carr Conjecture. <i>Mathematics of Operations Research</i> , 2014, 39, 403-417.	0.8	17
29	Popular ranking. <i>Discrete Applied Mathematics</i> , 2014, 165, 312-316.	0.5	7
30	The Online Connected Facility Location Problem. <i>Lecture Notes in Computer Science</i> , 2014, , 574-585.	1.0	8
31	Offline and online facility leasing. <i>Discrete Optimization</i> , 2013, 10, 361-370.	0.6	22
32	On the Integrality Gap of the Subtour LP for the 1,2-TSP. <i>Lecture Notes in Computer Science</i> , 2012, , 606-617.	1.0	3
33	A Dual-Fitting $\frac{3}{2}$ -Approximation Algorithm for Some Minimum-Cost Graph Problems. <i>Lecture Notes in Computer Science</i> , 2012, , 373-382.	1.0	1
34	A note on the generalized min-sum set cover problem. <i>Operations Research Letters</i> , 2011, 39, 433-436.	0.5	20
35	Approximating the smallest k -edge connected spanning subgraph by LP-rounding. <i>Networks</i> , 2009, 53, 345-357.	1.6	30
36	A simple GAP-canceling algorithm for the generalized maximum flow problem. <i>Mathematical Programming</i> , 2009, 118, 47-74.	1.6	27

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37	On the relationship between combinatorial and LP-based lower bounds for NP-hard scheduling problems. <i>Theoretical Computer Science</i> , 2006, 361, 241-256.	0.5	4
38	Improved approximation algorithms for capacitated facility location problems. <i>Mathematical Programming</i> , 2005, 102, 207-222.	1.6	70
39	Two-Dimensional Gantt Charts and a Scheduling Algorithm of Lawler. <i>SIAM Journal on Discrete Mathematics</i> , 2000, 13, 281-294.	0.4	26
40	Improved Approximation Algorithms for Capacitated Facility Location Problems. <i>Lecture Notes in Computer Science</i> , 1999, , 99-113.	1.0	80
41	A primal-dual approximation algorithm for generalized steiner network problems. <i>Combinatorica</i> , 1995, 15, 435-454.	0.6	107
42	Improved approximation algorithms for maximum cut and satisfiability problems using semidefinite programming. <i>Journal of the ACM</i> , 1995, 42, 1115-1145.	1.8	2,443
43	A General Approximation Technique for Constrained Forest Problems. <i>SIAM Journal on Computing</i> , 1995, 24, 296-317.	0.8	611
44	Approximating minimum-cost graph problems with spanning tree edges. <i>Operations Research Letters</i> , 1994, 16, 183-189.	0.5	16
45	New $\frac{3}{4}$ -Approximation Algorithms for the Maximum Satisfiability Problem. <i>SIAM Journal on Discrete Mathematics</i> , 1994, 7, 656-666.	0.4	200
46	A note on the prize collecting traveling salesman problem. <i>Mathematical Programming</i> , 1993, 59, 413-420.	1.6	216
47	Analyzing the Held-Karp tsp bound: a monotonicity property with application. <i>Information Processing Letters</i> , 1990, 35, 281-285.	0.4	109