Andrew V Goldberg

List of Publications by Year
in descending order

55 papers	5,799 citations	159585 30 h-index	197818 49 g-index
57 all docs	57 docs citations	57 times ranked	2787 citing authors

#	Article	IF	Citations
1	A new approach to the maximum-flow problem. Journal of the ACM, 1988, 35, 921-940.	2.2	1,452
2	Shortest paths algorithms: Theory and experimental evaluation. Mathematical Programming, 1996, 73, 129-174.	2.4	512
3	Beyond the flow decomposition barrier. Journal of the ACM, 1998, 45, 783-797.	2.2	390
4	An Efficient Implementation of a Scaling Minimum-Cost Flow Algorithm. Journal of Algorithms, 1997, 22, 1-29.	0.9	323
5	Finding Minimum-Cost Circulations by Successive Approximation. Mathematics of Operations Research, 1990, 15, 430-466.	1.3	268
6	Finding minimum-cost circulations by canceling negative cycles. Journal of the ACM, 1989, 36, 873-886.	2.2	253
7	Competitive auctions. Games and Economic Behavior, 2006, 55, 242-269.	0.8	182
8	Parallel Symmetry-Breaking in Sparse Graphs. SIAM Journal on Discrete Mathematics, 1988, 1, 434-446.	0.8	151
9	Hierarchical Hub Labelings for Shortest Paths. Lecture Notes in Computer Science, 2012, , 24-35.	1.3	143
10	Scaling Algorithms for the Shortest Paths Problem. SIAM Journal on Computing, 1995, 24, 494-504.	1.0	130
11	A Hub-Based Labeling Algorithm for Shortest Paths in Road Networks. Lecture Notes in Computer Science, 2011, , 230-241.	1.3	128
12	Negative-cycle detection algorithms. Mathematical Programming, 1999, 85, 277-311.	2.4	116
13	A heuristic improvement of the Bellman-Ford algorithm. Applied Mathematics Letters, 1993, 6, 3-6.	2.7	109
14	An efficient cost scaling algorithm for the assignment problem. Mathematical Programming, 1995, 71, 153-177.	2.4	106
15	Customizable Route Planning. Lecture Notes in Computer Science, 2011, , 376-387.	1.3	93
16	Finding minimum-cost flows by double scaling. Mathematical Programming, 1992, 53, 243-266.	2.4	91
17	Efficient maximum flow algorithms. Communications of the ACM, 2014, 57, 82-89.	4.5	89
18	Competitive generalized auctions. , 2002, , .		88

#	Article	IF	Citations
19	Graph Partitioning with Natural Cuts. , 2011, , .		78
20	Combinatorial Algorithms for the Generalized Circulation Problem. Mathematics of Operations Research, 1991, 16, 351-381.	1.3	77
21	Customizable Route Planning in Road Networks. Transportation Science, 2017, 51, 566-591.	4.4	71
22	PHAST: Hardware-accelerated shortest path trees. Journal of Parallel and Distributed Computing, 2013, 73, 940-952.	4.1	65
23	On implementing push-relabel method for the maximum flow problem. Lecture Notes in Computer Science, 1995, , 157-171.	1.3	64
24	An Implementation of a Combinatorial Approximation Algorithm for Minimum-Cost Multicommodity Flow. Lecture Notes in Computer Science, 1998, , 338-352.	1.3	58
25	Buckets, Heaps, Lists, and Monotone Priority Queues. SIAM Journal on Computing, 1999, 28, 1326-1346.	1.0	56
26	Use of dynamic trees in a network simplex algorithm for the maximum flow problem. Mathematical Programming, 1991, 50, 277-290.	2.4	53
27	Recent developments in maximum flow algorithms. Lecture Notes in Computer Science, 1998, , 1-10.	1.3	47
28	Envy-free auctions for digital goods. , 2003, , .		44
29	A Practical Shortest Path Algorithm with Linear Expected Time. SIAM Journal on Computing, 2008, 37, 1637-1655.	1.0	36
30	PHAST: Hardware-Accelerated Shortest Path Trees. , 2011, , .		36
31	Parallel (Î" + 1)-coloring of constant-degree graphs. Information Processing Letters, 1987, 25, 241-245.	0.6	34
32	Shortest Path Algorithms: Engineering Aspects. Lecture Notes in Computer Science, 2001, , 502-513.	1.3	34
33	Negative-cycle detection algorithms. Lecture Notes in Computer Science, 1996, , 349-363.	1.3	32
34	Two-Level Push-Relabel Algorithm for the Maximum Flow Problem. Lecture Notes in Computer Science, 2009, , 212-225.	1.3	30
35	HLDB. , 2012, , .		29
36	Highway Dimension and Provably Efficient Shortest Path Algorithms. Journal of the ACM, 2016, 63, 1-26.	2.2	29

#	Article	IF	Citations
37	Truthful and Competitive Double Auctions. Lecture Notes in Computer Science, 2002, , 361-373.	1.3	29
38	Derandomization of auctions. , 2005, , .		27
39	A natural randomization strategy for multicommodity flow and related algorithms. Information Processing Letters, 1992, 42, 249-256.	0.6	23
40	Tight bounds on the number of minimum-mean cycle cancellations and related results. Algorithmica, 1994, 11, 226-242.	1.3	20
41	Flows in Undirected Unit Capacity Networks. SIAM Journal on Discrete Mathematics, 1999, 12, 1-5.	0.8	19
42	Global Price Updates Help. SIAM Journal on Discrete Mathematics, 1997, 10, 551-572.	0.8	18
43	The Partial Augmentâ€"Relabel Algorithm for the Maximum Flow Problem. Lecture Notes in Computer Science, 2008, , 466-477.	1.3	18
44	Hub Label Compression. Lecture Notes in Computer Science, 2013, , 18-29.	1.3	18
45	A parallel algorithm for finding a blocking flow in an acyclic network. Information Processing Letters, 1989, 31, 265-271.	0.6	16
46	Algorithms for Hub Label Optimization. Lecture Notes in Computer Science, 2013, , 69-80.	1.3	13
47	Shortest-path feasibility algorithms. Journal of Experimental Algorithmics, 2009, 14, .	1.0	10
48	Minimum-Cost Flows in Unit-Capacity Networks. Theory of Computing Systems, 2017, 61, 987-1010.	1.1	7
49	Maximum skew-symmetric flows. Lecture Notes in Computer Science, 1995, , 155-170.	1.3	6
50	Derandomization of auctions. Games and Economic Behavior, 2011, 72, 1-11.	0.8	6
51	Separating Hierarchical and General Hub Labelings. Lecture Notes in Computer Science, 2013, , 469-479.	1.3	6
52	Shortest Path Feasibility Algorithms: An Experimental Evaluation. , 2008, , 118-132.		4
53	Shortest Paths in Road Networks: From Practice to Theory and Back. IT - Information Technology, 2011, 53, 294-301.	0.9	3
54	Algorithms for Hub Label Optimization. ACM Transactions on Algorithms, 2016, 13, 1-17.	1.0	3

#	Article	IF	Citations
55	Optimization algorithms for large networks. Lecture Notes in Computer Science, 1994, , 1-9.	1.3	2