

# Andras Frank

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/555909/publications.pdf>

Version: 2024-02-01

74  
papers

2,352  
citations

201385

27  
h-index

214527

47  
g-index

76  
all docs

76  
docs citations

76  
times ranked

606  
citing authors

#	ARTICLE	IF	CITATIONS
1	An application of simultaneous diophantine approximation in combinatorial optimization. <i>Combinatorica</i> , 1987, 7, 49-65.	0.6	239
2	Augmenting Graphs to Meet Edge-Connectivity Requirements. <i>SIAM Journal on Discrete Mathematics</i> , 1992, 5, 25-53.	0.4	203
3	A weighted matroid intersection algorithm. <i>Journal of Algorithms</i> , 1981, 2, 328-336.	0.9	145
4	Generalized polymatroids and submodular flows. <i>Mathematical Programming</i> , 1988, 42, 489-563.	1.6	123
5	An application of submodular flows. <i>Linear Algebra and Its Applications</i> , 1989, 114-115, 329-348.	0.4	104
6	On decomposing a hypergraph into $k$ connected sub-hypergraphs. <i>Discrete Applied Mathematics</i> , 2003, 131, 373-383.	0.5	104
7	Minimal Edge-Coverings of Pairs of Sets. <i>Journal of Combinatorial Theory Series B</i> , 1995, 65, 73-110.	0.6	89
8	On chain and antichain families of a partially ordered set. <i>Journal of Combinatorial Theory Series B</i> , 1980, 29, 176-184.	0.6	85
9	Edge-disjoint paths in planar graphs. <i>Journal of Combinatorial Theory Series B</i> , 1985, 39, 164-178.	0.6	76
10	Disjoint paths in a rectilinear grid. <i>Combinatorica</i> , 1982, 2, 361-371.	0.6	73
11	On the orientation of graphs. <i>Journal of Combinatorial Theory Series B</i> , 1980, 28, 251-261.	0.6	69
12	On Kuhn's Hungarian Method? A tribute from Hungary. <i>Naval Research Logistics</i> , 2005, 52, 2-5.	1.4	69
13	How to make a digraph strongly connected. <i>Combinatorica</i> , 1981, 1, 145-153.	0.6	59
14	Algorithms for routing around a rectangle. <i>Discrete Applied Mathematics</i> , 1992, 40, 363-378.	0.5	57
15	A Primal-Dual Algorithm for Submodular Flows. <i>Mathematics of Operations Research</i> , 1985, 10, 251-262.	0.8	54
16	Preserving and Increasing Local Edge-Connectivity in Mixed Graphs. <i>SIAM Journal on Discrete Mathematics</i> , 1995, 8, 155-178.	0.4	50
17	An Algorithm for Submodular Functions on Graphs. <i>North-Holland Mathematics Studies</i> , 1982, , 97-120.	0.2	48
18	On a theorem of Mader. <i>Discrete Mathematics</i> , 1992, 101, 49-57.	0.4	47

#	ARTICLE	IF	CITATIONS
19	Conservative weightings and ear-decompositions of graphs. <i>Combinatorica</i> , 1993, 13, 65-81.	0.6	47
20	Finding feasible vectors of Edmonds-Giles polyhedra. <i>Journal of Combinatorial Theory Series B</i> , 1984, 36, 221-239.	0.6	44
21	On the orientation of graphs and hypergraphs. <i>Discrete Applied Mathematics</i> , 2003, 131, 385-400.	0.5	44
22	On sparse subgraphs preserving connectivity properties. <i>Journal of Graph Theory</i> , 1993, 17, 275-281.	0.5	37
23	Rooted $k$ -connections in digraphs. <i>Discrete Applied Mathematics</i> , 2009, 157, 1242-1254.	0.5	36
24	Increasing the rooted-connectivity of a digraph by one. <i>Mathematical Programming</i> , 1999, 84, 565-576.	1.6	33
25	On Integer Multiflow Maximization. <i>SIAM Journal on Discrete Mathematics</i> , 1997, 10, 158-170.	0.4	31
26	Covering directed and odd cuts. <i>Mathematical Programming Studies</i> , 1984, , 99-112.	0.8	30
27	An algorithm for source location in directed graphs. <i>Operations Research Letters</i> , 2005, 33, 221-230.	0.5	30
28	Restricted $t$ -matchings in bipartite graphs. <i>Discrete Applied Mathematics</i> , 2003, 131, 337-346.	0.5	27
29	Submodular functions in graph theory. <i>Discrete Mathematics</i> , 1993, 111, 231-243.	0.4	23
30	Covering symmetric supermodular functions by graphs. <i>Mathematical Programming</i> , 1999, 84, 483-503.	1.6	23
31	Constructive characterizations for packing and covering with trees. <i>Discrete Applied Mathematics</i> , 2003, 131, 347-371.	0.5	19
32	Applications of submodular functions. , 1993, , 85-136.		18
33	Graph Orientations with Edge-connection and Parity Constraints. <i>Combinatorica</i> , 2002, 22, 47-70.	0.6	16
34	Note on the path-matching formula. <i>Journal of Graph Theory</i> , 2002, 41, 110-119.	0.5	15
35	On circuit decomposition of planar Eulerian graphs. <i>Journal of Combinatorial Theory Series B</i> , 1990, 50, 245-253.	0.6	13
36	An orientation theorem with parity conditions. <i>Discrete Applied Mathematics</i> , 2001, 115, 37-47.	0.5	12

#	ARTICLE	IF	CITATIONS
37	Combined connectivity augmentation and orientation problems. Discrete Applied Mathematics, 2003, 131, 401-419.	0.5	11
38	A note on $k$ -strongly connected orientations of an undirected graph. Discrete Mathematics, 1982, 39, 103-104.	0.4	10
39	Node-Capacitated Ring Routing. Mathematics of Operations Research, 2002, 27, 372-383.	0.8	10
40	Edge-Connection of Graphs, Digraphs, and Hypergraphs. Bolyai Society Mathematical Studies, 2006, , 93-141.	0.3	10
41	A Survey on Covering Supermodular Functions. , 2009, , 87-126.		9
42	On a class of balanced hypergraphs. Discrete Mathematics, 1977, 20, 11-20.	0.4	8
43	Directed vertex-connectivity augmentation. Mathematical Programming, 1999, 84, 537-553.	1.6	8
44	Finding Minimum Generators of Path Systems. Journal of Combinatorial Theory Series B, 1999, 75, 237-244.	0.6	8
45	Connectivity augmentation of networks: structures and algorithms. Mathematical Programming, 1999, 84, 439-441.	1.6	7
46	An algorithm to increase the node-connectivity of a digraph by one. Discrete Optimization, 2008, 5, 677-684.	0.6	6
47	Supermodularity in Unweighted Graph Optimization I: Branchings and Matchings. Mathematics of Operations Research, 2018, 43, 726-753.	0.8	6
48	An algorithm for node-capacitated ring routing. Operations Research Letters, 2007, 35, 385-391.	0.5	5
49	A note on degree-constrained subgraphs. Discrete Mathematics, 2008, 308, 2647-2648.	0.4	5
50	Parity Constrained $k$ -Edge-Connected Orientations. Lecture Notes in Computer Science, 1999, , 191-201.	1.0	5
51	Submodular Flows. , 1984, , 147-165.		5
52	Minimum multiway cuts in trees. Discrete Applied Mathematics, 1998, 87, 67-75.	0.5	4
53	Simple push-relabel algorithms for matroids and submodular flows. Japan Journal of Industrial and Applied Mathematics, 2012, 29, 419-439.	0.5	4
54	Connections in Combinatorial Optimization. Discrete Applied Mathematics, 2012, 160, 1875.	0.5	4

#	ARTICLE	IF	CITATIONS
55	A Discrete Convex Min-Max Formula for Box-TDI Polyhedra. <i>Mathematics of Operations Research</i> , 2022, 47, 1026-1047.	0.8	4
56	Decreasing minimization on M-convex sets: background and structures. <i>Mathematical Programming</i> , 2022, 195, 977-1025.	1.6	4
57	A note on packing paths in planar graphs. <i>Mathematical Programming</i> , 1995, 70, 201-209.	1.6	3
58	Supermodularity in Unweighted Graph Optimization II: Matroidal Term Rank Augmentation. <i>Mathematics of Operations Research</i> , 2018, 43, 754-762.	0.8	3
59	Packing paths in planar graphs. <i>Combinatorica</i> , 1990, 10, 325-331.	0.6	2
60	Characterizing and recognizing generalized polymatroids. <i>Mathematical Programming</i> , 2014, 146, 245-273.	1.6	2
61	Supermodularity in Unweighted Graph Optimization III: Highly Connected Digraphs. <i>Mathematics of Operations Research</i> , 2018, 43, 763-780.	0.8	2
62	A simple algorithm and min-max formula for the inverse arborescence problem. <i>Discrete Applied Mathematics</i> , 2021, 295, 85-93.	0.5	2
63	Decreasing minimization on M-convex sets: algorithms and applications. <i>Mathematical Programming</i> , 0, , 1.	1.6	2
64	Two Arc-Disjoint Paths in Eulerian Digraphs. <i>SIAM Journal on Discrete Mathematics</i> , 1998, 11, 557-589.	0.4	1
65	A constrained independent set problem for matroids. <i>Operations Research Letters</i> , 2004, 32, 23-26.	0.5	1
66	Independent arborescences in directed graphs. <i>Discrete Mathematics</i> , 2013, 313, 453-459.	0.4	1
67	Sink-Stable Sets of Digraphs. <i>SIAM Journal on Discrete Mathematics</i> , 2014, 28, 1651-1674.	0.4	1
68	An Extension of a Theorem of Henneberg and Laman. <i>Lecture Notes in Computer Science</i> , 2001, , 145-159.	1.0	1
69	Decreasing minimization on base-polyhedra: relation between discrete and continuous cases. <i>Japan Journal of Industrial and Applied Mathematics</i> , 0, , .	0.5	1
70	EDGE-CONNECTIVITIES OF GRAPHS AND DIGRAPHS. <i>Electronic Notes in Discrete Mathematics</i> , 2000, 5, 126-129.	0.4	0
71	Balanced list edge-colourings of bipartite graphs. <i>Electronic Notes in Discrete Mathematics</i> , 2010, 36, 837-842.	0.4	0
72	Tree-compositions and orientations. <i>Operations Research Letters</i> , 2013, 41, 336-342.	0.5	0

#	ARTICLE	IF	CITATIONS
73	Combined Connectivity Augmentation and Orientation Problems. Lecture Notes in Computer Science, 2001, , 130-144.	1.0	0
74	Fair integral submodular flows. Discrete Applied Mathematics, 2022, 320, 416-434.	0.5	0