

Tobias Friedrich

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

66

papers

864

citations

17

h-index

27

g-index

71

ext. papers

1,053

ext. citations

2

avg, IF

4.56

L-index

#	Paper	IF	Citations
66	The complexity of dependency detection and discovery in relational databases. <i>Theoretical Computer Science</i> , 2022 , 900, 79-96	1.1	1
65	Pareto optimization for subset selection with dynamic cost constraints. <i>Artificial Intelligence</i> , 2022 , 302, 103597	3.6	3
64	Accelerated Information Dissemination on Networks with Local and Global Edges. <i>Lecture Notes in Computer Science</i> , 2022 , 79-97	0.9	
63	Efficiently enumerating hitting sets of hypergraphs arising in data profiling. <i>Journal of Computer and System Sciences</i> , 2021 , 124, 192-192	1	
62	Solving Non-uniform Planted and Filtered Random SAT Formulas Greedily. <i>Lecture Notes in Computer Science</i> , 2021 , 188-206	0.9	
61	Evolutionary algorithms and submodular functions: benefits of heavy-tailed mutations. <i>Natural Computing</i> , 2021 , 20, 561-575	1.3	1
60	Memetic Genetic Algorithms for Time Series Compression by Piecewise Linear Approximation. <i>Lecture Notes in Computer Science</i> , 2020 , 592-604	0.9	
59	Hitting set enumeration with partial information for unique column combination discovery. <i>Proceedings of the VLDB Endowment</i> , 2020 , 13, 2270-2283	3.1	4
58	Greed is Good for Deterministic Scale-Free Networks. <i>Algorithmica</i> , 2020 , 82, 3338-3389	0.9	1
57	Analysis of the (1 + 1) EA on subclasses of linear functions under uniform and linear constraints. <i>Theoretical Computer Science</i> , 2020 , 832, 3-19	1.1	7
56	Reoptimization Time Analysis of Evolutionary Algorithms on Linear Functions Under Dynamic Uniform Constraints. <i>Algorithmica</i> , 2019 , 81, 828-857	0.9	10
55	On the Empirical Time Complexity of Scale-Free 3-SAT at the Phase Transition. <i>Lecture Notes in Computer Science</i> , 2019 , 117-134	0.9	1
54	Pareto Optimization for Subset Selection with Dynamic Cost Constraints. <i>Proceedings of the AAAI Conference on Artificial Intelligence</i> , 2019 , 33, 2354-2361	5	6
53	Efficiently Enumerating Hitting Sets of Hypergraphs Arising in Data Profiling 2019 , 130-143		7
52	Unbiasedness of estimation-of-distribution algorithms. <i>Theoretical Computer Science</i> , 2019 , 785, 46-59	1.1	1
51	Escaping Local Optima Using Crossover With Emergent Diversity. <i>IEEE Transactions on Evolutionary Computation</i> , 2018 , 22, 484-497	15.6	59
50	Efficient Embedding of Scale-Free Graphs in the Hyperbolic Plane. <i>IEEE/ACM Transactions on Networking</i> , 2018 , 26, 920-933	3.8	15

49	On the Diameter of Hyperbolic Random Graphs. <i>SIAM Journal on Discrete Mathematics</i> , 2018 , 32, 1314-1334	10
48	De-anonymization of Heterogeneous Random Graphs in Quasilinear Time. <i>Algorithmica</i> , 2018 , 80, 3397-3427	2
47	Heavy-Tailed Mutation Operators in Single-Objective Combinatorial Optimization. <i>Lecture Notes in Computer Science</i> , 2018 , 134-145	0.9 15
46	Cliques in Hyperbolic Random Graphs. <i>Algorithmica</i> , 2018 , 80, 2324-2344	0.9 7
45	Escaping large deceptive basins of attraction with heavy-tailed mutation operators 2018 ,	23
44	Sharpness of the Satisfiability Threshold for Non-uniform Random k-SAT. <i>Lecture Notes in Computer Science</i> , 2018 , 273-291	0.9 2
43	Minimizing Maximum (Weighted) Flow-Time on Related and Unrelated Machines. <i>Algorithmica</i> , 2017 , 77, 515-536	0.9 2
42	Improving local search in a minimum vertex cover solver for classes of networks 2017 ,	8
41	EDAs cannot be Balanced and Stable 2016 ,	20
40	Robustness of Ant Colony Optimization to Noise. <i>Evolutionary Computation</i> , 2016 , 24, 237-54	4.3 20
39	On the kernel size of clique cover reductions for random intersection graphs. <i>Journal of Discrete Algorithms</i> , 2015 , 34, 128-136	2
38	Robustness of Ant Colony Optimization to Noise 2015 ,	7
37	Parameterized clique on inhomogeneous random graphs. <i>Discrete Applied Mathematics</i> , 2015 , 184, 130-138	4
36	On the average-case complexity of parameterized clique. <i>Theoretical Computer Science</i> , 2015 , 576, 18-29	1.1 3
35	Maximizing Submodular Functions under Matroid Constraints by Evolutionary Algorithms. <i>Evolutionary Computation</i> , 2015 , 23, 543-58	4.3 28
34	Toward a unifying framework for evolutionary processes. <i>Journal of Theoretical Biology</i> , 2015 , 383, 28-43	3.3 19
33	The Benefit of Recombination in Noisy Evolutionary Search. <i>Lecture Notes in Computer Science</i> , 2015 , 140-150	0.9 19
32	. <i>IEEE Transactions on Evolutionary Computation</i> , 2014 , 18, 643-657	15.6 10

31	Generic Postprocessing via Subset Selection for Hypervolume and Epsilon-Indicator. <i>Lecture Notes in Computer Science</i> , 2014 , 518-527	0.9	19
30	Maximizing Submodular Functions under Matroid Constraints by Multi-objective Evolutionary Algorithms. <i>Lecture Notes in Computer Science</i> , 2014 , 922-931	0.9	10
29	De-anonymization of Heterogeneous Random Graphs in Quasilinear Time. <i>Lecture Notes in Computer Science</i> , 2014 , 197-208	0.9	6
28	Diameter and Broadcast Time of Random Geometric Graphs in Arbitrary Dimensions. <i>Algorithmica</i> , 2013 , 67, 65-88	0.9	18
27	Parameterized average-case complexity of the hypervolume indicator 2013 ,		6
26	Minimizing Maximum (Weighted) Flow-Time on Related and Unrelated Machines. <i>Lecture Notes in Computer Science</i> , 2013 , 13-24	0.9	3
25	Approximating the least hypervolume contributor: NP-hard in general, but fast in practice. <i>Theoretical Computer Science</i> , 2012 , 425, 104-116	1.1	42
24	Convergence of hypervolume-based archiving algorithms ii 2012 ,		5
23	Parameterized Clique on Scale-Free Networks. <i>Lecture Notes in Computer Science</i> , 2012 , 659-668	0.9	4
22	Smoothed analysis of balancing networks. <i>Random Structures and Algorithms</i> , 2011 , 39, 115-138	0.8	5
21	Convergence of hypervolume-based archiving algorithms I 2011 ,		6
20	Approximating covering problems by randomized search heuristics using multi-objective models. <i>Evolutionary Computation</i> , 2010 , 18, 617-33	4.3	70
19	An efficient algorithm for computing hypervolume contributions. <i>Evolutionary Computation</i> , 2010 , 18, 383-402	4.3	70
18	When to use bit-wise neutrality. <i>Natural Computing</i> , 2010 , 9, 283-294	1.3	1
17	Approximating the volume of unions and intersections of high-dimensional geometric objects. <i>Computational Geometry: Theory and Applications</i> , 2010 , 43, 601-610	0.4	67
16	Average-case analysis of incremental topological ordering. <i>Discrete Applied Mathematics</i> , 2010 , 158, 240-250		7
15	Quasirandom Rumor Spreading: An Experimental Analysis 2009 , 145-153		7
14	Near-perfect load balancing by randomized rounding 2009 ,		20

13	Analysis of diversity-preserving mechanisms for global exploration. <i>Evolutionary Computation</i> , 2009 , 17, 455-76	4.3	68
12	On the Effects of Adding Objectives to Plateau Functions. <i>IEEE Transactions on Evolutionary Computation</i> , 2009 , 13, 591-603	15.6	50
11	Quasirandom Rumor Spreading on Expanders. <i>Electronic Notes in Discrete Mathematics</i> , 2009 , 34, 243-247.	0.3	5
10	Quasirandom Rumor Spreading: Expanders, Push vs. Pull, and Robustness. <i>Lecture Notes in Computer Science</i> , 2009 , 366-377	0.9	38
9	An $O(n^{2.75})$ algorithm for incremental topological ordering. <i>ACM Transactions on Algorithms</i> , 2008 , 4, 1-14	1.2	5
8	On improving approximate solutions by evolutionary algorithms 2007 ,		2
7	Unbiased Matrix Rounding. <i>Electronic Notes in Discrete Mathematics</i> , 2007 , 28, 41-46	0.3	
6	Plateaus can be harder in multi-objective optimization 2007 ,		2
5	Average-Case Analysis of Online Topological Ordering 2007 , 464-475		1
4	An algorithm for online topological ordering. <i>Electronic Notes in Discrete Mathematics</i> , 2006 , 25, 7-12	0.3	4
3	Quasirandomness in Graphs. <i>Electronic Notes in Discrete Mathematics</i> , 2006 , 25, 61-64	0.3	
2	An $O(n^{2.75})$ Algorithm for Online Topological Ordering. <i>Lecture Notes in Computer Science</i> , 2006 , 53-64	0.9	5
1	Solving Vertex Cover in Polynomial Time on Hyperbolic Random Graphs. <i>Theory of Computing Systems</i> , 1	0.6	