

Mohammadtaghi Hajiaghayi

List of Publications by Citations

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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.

51
papers

1,225
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18
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34
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54
ext. papers

1,466
ext. citations

1
avg, IF

4.42
L-index

#	Paper	IF	Citations
51	Subexponential parameterized algorithms on bounded-genus graphs and H -minor-free graphs. <i>Journal of the ACM</i> , 2005 , 52, 866-893	2	201
50	Improved Approximation Algorithms for Minimum Weight Vertex Separators. <i>SIAM Journal on Computing</i> , 2008 , 38, 629-657	1.1	146
49	The Bidimensionality Theory and Its Algorithmic Applications. <i>Computer Journal</i> , 2007 , 51, 292-302	1.3	123
48	Linearity of grid minors in treewidth with applications through bidimensionality. <i>Combinatorica</i> , 2008 , 28, 19-36	0.9	86
47	Fixed-parameter algorithms for (k, r)-center in planar graphs and map graphs. <i>ACM Transactions on Algorithms</i> , 2005 , 1, 33-47	1.2	72
46	Improved approximation algorithms for minimum-weight vertex separators 2005 ,		50
45	Random MAX SAT, random MAX CUT, and their phase transitions. <i>Random Structures and Algorithms</i> , 2004 , 24, 502-545	0.8	48
44	Combination Can Be Hard: Approximability of the Unique Coverage Problem. <i>SIAM Journal on Computing</i> , 2008 , 38, 1464-1483	1.1	39
43	Approximation Schemes for Steiner Forest on Planar Graphs and Graphs of Bounded Treewidth. <i>Journal of the ACM</i> , 2011 , 58, 1-37	2	35
42	Exponential Speedup of Fixed-Parameter Algorithms for Classes of Graphs Excluding Single-Crossing Graphs as Minors. <i>Algorithmica</i> , 2005 , 41, 245-267	0.9	30
41	Submodular secretary problem and extensions. <i>ACM Transactions on Algorithms</i> , 2013 , 9, 1-23	1.2	29
40	Fixed-Parameter Tractability of Directed Multiway Cut Parameterized by the Size of the Cutset. <i>SIAM Journal on Computing</i> , 2013 , 42, 1674-1696	1.1	27
39	Designing FPT Algorithms for Cut Problems Using Randomized Contractions. <i>SIAM Journal on Computing</i> , 2016 , 45, 1171-1229	1.1	27
38	Approximation algorithms for classes of graphs excluding single-crossing graphs as minors. <i>Journal of Computer and System Sciences</i> , 2004 , 69, 166-195	1	26
37	The Bidimensional Theory of Bounded-Genus Graphs. <i>SIAM Journal on Discrete Mathematics</i> , 2006 , 20, 357-371	0.7	23
36	Subgraph isomorphism, log-bounded fragmentation, and graphs of (locally) bounded treewidth. <i>Journal of Computer and System Sciences</i> , 2007 , 73, 755-768	1	21
35	LP Rounding for k-Centers with Non-uniform Hard Capacities 2012 ,		20

34	Algorithmic Graph Minor Theory: Improved Grid Minor Bounds and Wagner's Contraction. <i>Algorithmica</i> , 2009 , 54, 142-180	0.9	19
33	Contraction decomposition in h-minor-free graphs and algorithmic applications 2011 ,		17
32	Node-Weighted Steiner Tree and Group Steiner Tree in Planar Graphs. <i>ACM Transactions on Algorithms</i> , 2014 , 10, 1-20	1.2	16
31	Fast Algorithms for Hard Graph Problems: Bidimensionality, Minors, and Local Treewidth. <i>Lecture Notes in Computer Science</i> , 2005 , 517-533	0.9	12
30	Scheduling to minimize gaps and power consumption. <i>Journal of Scheduling</i> , 2013 , 16, 151-160	1.6	11
29	Disjoint-Path Facility Location: Theory and Practice 2011 , 60-74		11
28	Designing FPT Algorithms for Cut Problems Using Randomized Contractions 2012 ,		10
27	Approximation algorithms via contraction decomposition. <i>Combinatorica</i> , 2010 , 30, 533-552	0.9	10
26	Stochastic Steiner Tree with Non-uniform Inflation. <i>Lecture Notes in Computer Science</i> , 2007 , 134-148	0.9	10
25	Prophet Secretary for Combinatorial Auctions and Matroids 2018 , 700-714		10
24	Approximation schemes for steiner forest on planar graphs and graphs of bounded treewidth 2010 ,		9
23	Quickly deciding minor-closed parameters in general graphs. <i>European Journal of Combinatorics</i> , 2007 , 28, 311-314	0.7	9
22	Prophet Secretary. <i>SIAM Journal on Discrete Mathematics</i> , 2017 , 31, 1685-1701	0.7	8
21	Improved Approximation Algorithms for Label Cover Problems. <i>Algorithmica</i> , 2011 , 61, 190-206	0.9	8
20	Tight Bounds for Planar Strongly Connected Steiner Subgraph with Fixed Number of Terminals (and Extensions) 2014 ,		7
19	Euclidean Prize-Collecting Steiner Forest. <i>Algorithmica</i> , 2012 , 62, 906-929	0.9	5
18	Low-Dimensional Embedding with Extra Information. <i>Discrete and Computational Geometry</i> , 2006 , 36, 609-632	0.6	5
17	1.5-Approximation for Treewidth of Graphs Excluding a Graph with One Crossing as a Minor. <i>Lecture Notes in Computer Science</i> , 2002 , 67-80	0.9	5

16	From Duels to Battlefields: Computing Equilibria of Blotto and Other Games. <i>Mathematics of Operations Research</i> , 2019 , 44, 1304-1325	1.5	4
15	A Tight Algorithm for Strongly Connected Steiner Subgraph on Two Terminals with Demands. <i>Algorithmica</i> , 2017 , 77, 1216-1239	0.9	3
14	Decomposition, Approximation, and Coloring of Odd-Minor-Free Graphs 2010 ,		3
13	Subgraph Isomorphism, log-Bounded Fragmentation and Graphs of (Locally) Bounded Treewidth. <i>Lecture Notes in Computer Science</i> , 2002 , 305-318	0.9	3
12	Tight Bounds for Planar Strongly Connected Steiner Subgraph with Fixed Number of Terminals (and Extensions). <i>SIAM Journal on Computing</i> , 2020 , 49, 318-364	1.1	2
11	Near-Optimal Disjoint-Path Facility Location Through Set Cover by Pairs. <i>Operations Research</i> , 2020 , 68, 896-926	2.3	2
10	The checkpoint problem. <i>Theoretical Computer Science</i> , 2012 , 452, 88-99	1.1	2
9	Plane Embeddings of Planar Graph Metrics. <i>Discrete and Computational Geometry</i> , 2007 , 38, 615-637	0.6	2
8	Fast approximation schemes for K_3 , 3-minor-free or K_5 -minor-free graphs. <i>Electronic Notes in Discrete Mathematics</i> , 2001 , 10, 137-142	0.3	2
7	The Bidimensional Theory of Bounded-Genus Graphs. <i>Lecture Notes in Computer Science</i> , 2004 , 191-203	0.9	2
6	A Tight Algorithm for Strongly Connected Steiner Subgraph on Two Terminals with Demands (Extended Abstract). <i>Lecture Notes in Computer Science</i> , 2014 , 159-171	0.9	2
5	Finding Large Matchings in Semi-Streaming 2016 ,		2
4	HyperCubeMap 2015 ,		1
3	The Checkpoint Problem. <i>Lecture Notes in Computer Science</i> , 2010 , 219-231	0.9	1
2	Algorithmic Graph Minor Theory: Improved Grid Minor Bounds and Wagner's Contraction. <i>Lecture Notes in Computer Science</i> , 2006 , 3-15	0.9	0
1	Inverse Feature Learning: Feature Learning Based on Representation Learning of Error. <i>IEEE Access</i> , 2020 , 8, 132937-132949	3.5	