

Mohammadtaghi Hajiaghayi

List of Publications by Year in descending order

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53
papers

1,732
citations

430442

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54
all docs

54
docs citations

54
times ranked

650
citing authors

#	ARTICLE	IF	CITATIONS
1	Subexponential parameterized algorithms on bounded-genus graphs and H -minor-free graphs. <i>Journal of the ACM</i> , 2005, 52, 866-893.	1.8	263
2	Improved Approximation Algorithms for Minimum Weight Vertex Separators. <i>SIAM Journal on Computing</i> , 2008, 38, 629-657.	0.8	190
3	The Bidimensionality Theory and Its Algorithmic Applications. <i>Computer Journal</i> , 2007, 51, 292-302.	1.5	158
4	Linearity of grid minors in treewidth with applications through bidimensionality. <i>Combinatorica</i> , 2008, 28, 19-36.	0.6	111
5	Fixed-parameter algorithms for (k, r) -center in planar graphs and map graphs. <i>ACM Transactions on Algorithms</i> , 2005, 1, 33-47.	0.9	103
6	Improved approximation algorithms for minimum-weight vertex separators. , 2005, , .		65
7	Random MAX SAT, random MAX CUT, and their phase transitions. <i>Random Structures and Algorithms</i> , 2004, 24, 502-545.	0.6	62
8	Exponential Speedup of Fixed-Parameter Algorithms for Classes of Graphs Excluding Single-Crossing Graphs as Minors. <i>Algorithmica</i> , 2005, 41, 245-267.	1.0	56
9	Approximation algorithms for classes of graphs excluding single-crossing graphs as minors. <i>Journal of Computer and System Sciences</i> , 2004, 69, 166-195.	0.9	55
10	Approximation Schemes for Steiner Forest on Planar Graphs and Graphs of Bounded Treewidth. <i>Journal of the ACM</i> , 2011, 58, 1-37.	1.8	51
11	Submodular secretary problem and extensions. <i>ACM Transactions on Algorithms</i> , 2013, 9, 1-23.	0.9	46
12	Combination Can Be Hard: Approximability of the Unique Coverage Problem. <i>SIAM Journal on Computing</i> , 2008, 38, 1464-1483.	0.8	45
13	Fixed-Parameter Tractability of Directed Multiway Cut Parameterized by the Size of the Cutset. <i>SIAM Journal on Computing</i> , 2013, 42, 1674-1696.	0.8	39
14	Designing FPT Algorithms for Cut Problems Using Randomized Contractions. <i>SIAM Journal on Computing</i> , 2016, 45, 1171-1229.	0.8	39
15	The Bidimensional Theory of Bounded-Genus Graphs. <i>SIAM Journal on Discrete Mathematics</i> , 2006, 20, 357-371.	0.4	30
16	Subgraph isomorphism, log-bounded fragmentation, and graphs of (locally) bounded treewidth. <i>Journal of Computer and System Sciences</i> , 2007, 73, 755-768.	0.9	27
17	Prophet Secretary for Combinatorial Auctions and Matroids. , 2018, , 700-714.		27
18	LP Rounding for k -Centers with Non-uniform Hard Capacities. , 2012, , .		26

#	ARTICLE	IF	CITATIONS
19	Prophet Secretary. SIAM Journal on Discrete Mathematics, 2017, 31, 1685-1701.	0.4	26
20	Contraction decomposition in h-minor-free graphs and algorithmic applications. , 2011, , .		25
21	Algorithmic Graph Minor Theory: Improved Grid Minor Bounds and Wagner's Contraction. Algorithmica, 2009, 54, 142-180.	1.0	24
22	Fast Algorithms for Hard Graph Problems: Bidimensionality, Minors, and Local Treewidth. Lecture Notes in Computer Science, 2005, , 517-533.	1.0	23
23	Node-Weighted Steiner Tree and Group Steiner Tree in Planar Graphs. ACM Transactions on Algorithms, 2014, 10, 1-20.	0.9	21
24	Designing FPT Algorithms for Cut Problems Using Randomized Contractions. , 2012, , .		18
25	Improved Approximation Algorithms for Label Cover Problems. Algorithmica, 2011, 61, 190-206.	1.0	17
26	From Duels to Battlefields: Computing Equilibria of Blotto and Other Games. Mathematics of Operations Research, 2019, 44, 1304-1325.	0.8	17
27	Scheduling to minimize gaps and power consumption. Journal of Scheduling, 2013, 16, 151-160.	1.3	16
28	Approximation algorithms via contraction decomposition. Combinatorica, 2010, 30, 533-552.	0.6	15
29	Approximation schemes for steiner forest on planar graphs and graphs of bounded treewidth. , 2010, , .		14
30	Disjoint-Path Facility Location: Theory and Practice. , 2011, , 60-74.		12
31	Quickly deciding minor-closed parameters in general graphs. European Journal of Combinatorics, 2007, 28, 311-314.	0.5	11
32	Stochastic Steiner Tree with Non-uniform Inflation. Lecture Notes in Computer Science, 2007, , 134-148.	1.0	10
33	Low-Dimensional Embedding with Extra Information. Discrete and Computational Geometry, 2006, 36, 609-632.	0.4	8
34	Tight Bounds for Planar Strongly Connected Steiner Subgraph with Fixed Number of Terminals (and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5		
35	Finding Large Matchings in Semi-Streaming. , 2016, , .		8
36	Near-Optimal Disjoint-Path Facility Location Through Set Cover by Pairs. Operations Research, 2020, 68, 896-926.	1.2	7

#	ARTICLE	IF	CITATIONS
37	Bidimensionality. , 2008, , 88-90.		7
38	Euclidean Prize-Collecting Steiner Forest. <i>Algorithmica</i> , 2012, 62, 906-929.	1.0	6
39	A Tight Algorithm for Strongly Connected Steiner Subgraph on Two Terminals with Demands. <i>Algorithmica</i> , 2017, 77, 1216-1239.	1.0	5
40	Tight Bounds for Planar Strongly Connected Steiner Subgraph with Fixed Number of Terminals (and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.8	5
41	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.	1.0	5
42	Plane Embeddings of Planar Graph Metrics. <i>Discrete and Computational Geometry</i> , 2007, 38, 615-637.	0.4	4
43	Decomposition, Approximation, and Coloring of Odd-Minor-Free Graphs. , 2010, , .		4
44	The Bidimensional Theory of Bounded-Genus Graphs. <i>Lecture Notes in Computer Science</i> , 2004, , 191-203.	1.0	4
45	Algorithmic Graph Minor Theory: Improved Grid Minor Bounds and Wagnerâ€™s Contraction. <i>Lecture Notes in Computer Science</i> , 2006, , 3-15.	1.0	4
46	Fast approximation schemes for K3, 3-minor-free or K5-minor-free graphs. <i>Electronic Notes in Discrete Mathematics</i> , 2001, 10, 137-142.	0.4	3
47	Subgraph Isomorphism, log-Bounded Fragmentation and Graphs of (Locally) Bounded Treewidth. <i>Lecture Notes in Computer Science</i> , 2002, , 305-318.	1.0	3
48	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.	1.0	3
49	The checkpoint problem. <i>Theoretical Computer Science</i> , 2012, 452, 88-99.	0.5	2
50	Approximation Schemes for Planar Graph Problems. , 2008, , 59-62.		1
51	HyperCubeMap. , 2015, , .		1
52	The Checkpoint Problem. <i>Lecture Notes in Computer Science</i> , 2010, , 219-231.	1.0	1
53	Inverse Feature Learning: Feature Learning Based on Representation Learning of Error. <i>IEEE Access</i> , 2020, 8, 132937-132949.	2.6	0