Aravind Srinivasan

List of Publications by Year
in descending order

44 papers	1,907 citations	430874 18 h-index	377865 34 g-index
44 all docs	44 docs citations	44 times ranked	1373 citing authors

#	Article	IF	Citations
1	Mobile Data Offloading through Opportunistic Communications and Social Participation. IEEE Transactions on Mobile Computing, 2012, 11, 821-834.	5.8	417
2	Chernoffâ€"Hoeffding Bounds for Applications with Limited Independence. SIAM Journal on Discrete Mathematics, 1995, 8, 223-250.	0.8	219
3	Randomized Distributed Edge Coloring via an Extension of the Chernoff--Hoeffding Bounds. SIAM Journal on Computing, 1997, 26, 350-368.	1.0	191
4	Approximation algorithms for partial covering problems. Journal of Algorithms, 2004, 53, 55-84.	0.9	154
5	Approximating theDomatic Number. SIAM Journal on Computing, 2002, 32, 172-195.	1.0	145
6	Improved bounds and algorithms for hypergraph 2-coloring. Random Structures and Algorithms, 2000, 16, 4-32.	1.1	112
7	Algorithmic aspects of capacity in wireless networks. , 2005, , .		109
8	Enabling energy-aware collaborative mobile data offloading for smartphones. , 2013, , .		69
9	Fast distributed algorithms for (weakly) connected dominating sets and linear-size skeletons. Journal of Computer and System Sciences, 2005, 71, 467-479.	1.2	58
10	Local balancing influences global structure in social networks. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 1751-1752.	7.1	46
11	Better Approximation Guarantees for Job-Shop Scheduling. SIAM Journal on Discrete Mathematics, 2001, 14, 67-92.	0.8	39
12	Title is missing!. Theory of Computing, 2012, 8, 533-565.	0.5	28
13	Approximation algorithms for the covering Steiner problem. Random Structures and Algorithms, 2002, 20, 465-482.	1.1	25
14	On the Energy Efficiency of Device Discovery in Mobile Opportunistic Networks: A Systematic Approach. IEEE Transactions on Mobile Computing, 2015, 14, 786-799.	5.8	24
15	Capacity of wireless networks under SINR interference constraints. Wireless Networks, 2011, 17, 1605-1624.	3.0	23
16	Improved Approximation Algorithms for the Partial Vertex Cover Problem. Lecture Notes in Computer Science, 2002, , 161-174.	1.3	22
17	Lift-and-round to improve weighted completion time on unrelated machines. , 2016, , .		21
18	Cost-Sharing Mechanisms for Network Design. Algorithmica, 2008, 50, 98-119.	1.3	20

#	Article	IF	Citations
19	Approximation Algorithms for Partial Covering Problems. Lecture Notes in Computer Science, 2001, , 225-236.	1.3	20
20	Resilient multicast using overlays. Performance Evaluation Review, 2003, 31, 102-113.	0.6	19
21	Integrality Ratio for Group Steiner Trees and Directed Steiner Trees. SIAM Journal on Computing, 2007, 36, 1494-1511.	1.0	19
22	Budgeted Allocations in the Full-Information Setting. Lecture Notes in Computer Science, 2008, , 247-253.	1.3	18
23	Your Friends Have More Friends Than You Do: Identifying Influential Mobile Users Through Random-Walk Sampling. IEEE/ACM Transactions on Networking, 2014, 22, 1389-1400.	3.8	16
24	Scheduling on Unrelated Machines under Tree-Like Precedence Constraints. Algorithmica, 2009, 55, 205-226.	1.3	14
25	New Constructive Aspects of the Lovasz Local Lemma. , 2010, , .		14
26	Scheduling on Unrelated Machines Under Tree-Like Precedence Constraints. Lecture Notes in Computer Science, 2005, , 146-157.	1.3	9
27	Improved Bounds in Stochastic Matching and Optimization. Algorithmica, 2018, 80, 3225-3252.	1.3	8
28	Title is missing!. Theory of Computing, 2006, 2, 53-64.	0.5	8
29	A new approximation technique for resourceâ€allocation problems. Random Structures and Algorithms, 2018, 52, 680-715.	1.1	7
30	The Randomized Coloring Procedure with Symmetry-Breaking. Lecture Notes in Computer Science, 2008, , 306-319.	1.3	7
31	On the Covering Steiner Problem. Lecture Notes in Computer Science, 2003, , 244-251.	1.3	5
32	Improved bounds and algorithms for hypergraph 2â€coloring. Random Structures and Algorithms, 2000, 16, 4-32.	1.1	4
33	An Improved Approximation Algorithm for Knapsack Median Using Sparsification. Algorithmica, 2018, 80, 1093-1114.	1.3	3
34	Algorithms to Approximate Column-Sparse Packing Problems. , 2018, , 311-330.		3
35	Algorithms to Approximate Column-sparse Packing Problems. ACM Transactions on Algorithms, 2020, 16, 1-32.	1.0	3
36	Minimum Weighted Completion Time. , 2008, , 544-546.		3

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37	Improved bounds and algorithms for graph cuts and network reliability. Random Structures and Algorithms, 2018, 52, 74-135.	1.1	2
38	When does a random Robin Hood win?. Theoretical Computer Science, 2003, 304, 477-484.	0.9	1
39	Approximation algorithms for channel allocation problems in broadcast networks. Networks, 2006, 47, 225-236.	2.7	1
40	A note on near-optimal coloring of shift hypergraphs. Random Structures and Algorithms, 2016, 48, 53-56.	1.1	1
41	Efficient computation of sparse structures. Random Structures and Algorithms, 2016, 49, 322-344.	1.1	0
42	Hierarchical scheduling algorithms with throughput guarantees and low delay. , 2018, , .		0
43	Partial resampling to approximate covering integer programsâ€. Random Structures and Algorithms, 2021, 58, 68-93.	1.1	0
44	Randomized Algorithms and Probabilistic Analysis in Wireless Networking. Lecture Notes in Computer Science, 2007, , 54-57.	1.3	0