

Yossi Azar

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.

73
papers

1,633
citations

24
h-index

38
g-index

75
ext. papers

1,907
ext. citations

1.2
avg, IF

4.27
L-index

#	Paper	IF	Citations
73	On-line routing of virtual circuits with applications to load balancing and machine scheduling. <i>Journal of the ACM</i> , 1997 , 44, 486-504	2	223
72	Spectral analysis of data 2001 ,		131
71	Approximation schemes for scheduling on parallel machines. <i>Journal of Scheduling</i> , 1998 , 1, 55-66	1.6	130
70	New Approximation Guarantees for Minimum-Weight k-Trees and Prize-Collecting Salesmen. <i>SIAM Journal on Computing</i> , 1998 , 28, 254-262	1.1	78
69	On-line load balancing with applications to machine scheduling and virtual circuit routing 1993 ,		70
68	The Online Set Cover Problem. <i>SIAM Journal on Computing</i> , 2009 , 39, 361-370	1.1	58
67	On-line load balancing. <i>Theoretical Computer Science</i> , 1994 , 130, 73-84	1.1	47
66	On-Line Load Balancing of Temporary Tasks. <i>Journal of Algorithms</i> , 1997 , 22, 93-110		42
65	Tradeoffs in worst-case equilibria. <i>Theoretical Computer Science</i> , 2006 , 361, 200-209	1.1	42
64	All-norm approximation algorithms. <i>Journal of Algorithms</i> , 2004 , 52, 120-133		40
63	On-line generalized Steiner problem. <i>Theoretical Computer Science</i> , 2004 , 324, 313-324	1.1	38
62	Maximizing throughput in multi-queue switches. <i>Algorithmica</i> , 2006 , 45, 69-90	0.9	35
61	Optimal oblivious routing in polynomial time. <i>Journal of Computer and System Sciences</i> , 2004 , 69, 383-394		34
60	On-line steiner trees in the Euclidean plane. <i>Discrete and Computational Geometry</i> , 1993 , 10, 113-121	0.6	33
59	Tight Comparison Bounds on the Complexity of Parallel Sorting. <i>SIAM Journal on Computing</i> , 1987 , 16, 458-464	1.1	32
58	The zero-one principle for switching networks 2004 ,		31
57	Combinatorial Algorithms for the Unsplittable Flow Problem. <i>Algorithmica</i> , 2006 , 44, 49-66	0.9	29

56	Management of Multi-Queue Switches in QoS Networks. <i>Algorithmica</i> , 2005 , 43, 81-96	0.9	29
55	Online load balancing of temporary tasks. <i>Lecture Notes in Computer Science</i> , 1993 , 119-130	0.9	28
54	The Price of Routing Unsplittable Flow. <i>SIAM Journal on Computing</i> , 2013 , 42, 160-177	1.1	27
53	An improved algorithm for CIOQ switches. <i>ACM Transactions on Algorithms</i> , 2006 , 2, 282-295	1.2	27
52	On-line machine covering. <i>Journal of Scheduling</i> , 1998 , 1, 67-77	1.6	26
51	Approximating Probability Distributions Using Small Sample Spaces. <i>Combinatorica</i> , 1998 , 18, 151-171	0.9	25
50	Minimizing the Flow Time Without Migration. <i>SIAM Journal on Computing</i> , 2002 , 31, 1370-1382	1.1	24
49	Management of multi-queue switches in QoS networks 2003 ,		23
48	Biased random walks. <i>Combinatorica</i> , 1996 , 16, 1-18	0.9	19
47	On Two Dimensional Packing. <i>Journal of Algorithms</i> , 1997 , 25, 290-310		18
46	Parallel selection. <i>Discrete Applied Mathematics</i> , 1990 , 27, 49-58	1	18
45	Optimal Coordination Mechanisms for Unrelated Machine Scheduling. <i>Operations Research</i> , 2015 , 63, 489-500	2.3	17
44	Truthful Approximation Mechanisms for Scheduling Selfish Related Machines. <i>Theory of Computing Systems</i> , 2007 , 40, 423-436	0.6	17
43	Competitive Routing of Virtual Circuits with Unknown Duration. <i>Journal of Computer and System Sciences</i> , 2001 , 62, 385-397	1	15
42	Fair versus Unrestricted Bin Packing. <i>Algorithmica</i> , 2002 , 34, 181-196	0.9	15
41	Sorting, Approximate Sorting, and Searching in Rounds. <i>SIAM Journal on Discrete Mathematics</i> , 1988 , 1, 269-280	0.7	15
40	Collaborate with strangers to find own preferences 2005 ,		14
39	Online Algorithms for Covering and Packing Problems with Convex Objectives 2016 ,		14

38	On-line competitive algorithms for call admission in optical networks. <i>Lecture Notes in Computer Science</i> , 1996 , 431-444	0.9	13
37	Maximizing Throughput in Multi-queue Switches. <i>Lecture Notes in Computer Science</i> , 2004 , 53-64	0.9	13
36	Minimizing Total Flow Time and Total Completion Time with Immediate Dispatching. <i>Algorithmica</i> , 2007 , 47, 253-268	0.9	12
35	Efficient Submodular Function Maximization under Linear Packing Constraints. <i>Lecture Notes in Computer Science</i> , 2012 , 38-50	0.9	12
34	Tractable near-optimal policies for crawling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 8099-8103	11.5	11
33	Beating the Logarithmic Lower Bound: Randomized Preemptive Disjoint Paths and Call Control Algorithms. <i>Journal of Scheduling</i> , 2003 , 6, 113-129	1.6	11
32	Online service with delay 2017 ,		10
31	Polylogarithmic Bounds on the Competitiveness of Min-cost Perfect Matching with Delays 2017 ,		10
30	Independent Sets in Hypergraphs with Applications to Routing Via Fixed Paths. <i>Lecture Notes in Computer Science</i> , 1999 , 16-27	0.9	8
29	Tight complexity bounds for parallel comparison sorting 1986 ,		8
28	Tell Me Who I Am: An Interactive Recommendation System. <i>Theory of Computing Systems</i> , 2009 , 45, 261-279	0.6	6
27	Lower Bounds for Insertion Methods for TSP. <i>Combinatorics Probability and Computing</i> , 1994 , 3, 285-292	0.6	6
26	Maximum bipartite flow in networks with adaptive channel width. <i>Theoretical Computer Science</i> , 2011 , 412, 2577-2587	1.1	5
25	Resource augmentation in load balancing. <i>Journal of Scheduling</i> , 2000 , 3, 249-258	1.6	5
24	Lower Bounds for Threshold and Symmetric Functions in Parallel Computation. <i>SIAM Journal on Computing</i> , 1992 , 21, 329-338	1.1	5
23	Truthful mechanism design via correlated tree rounding. <i>Mathematical Programming</i> , 2017 , 163, 445-469	2.1	4
22	Truthful unsplittable flow for large capacity networks 2007 ,		4
21	An improved algorithm for online machine minimization. <i>Operations Research Letters</i> , 2018 , 46, 128-133	1	4

20	On-Line Load Balancing of Temporary Tasks on Identical Machines. <i>SIAM Journal on Discrete Mathematics</i> , 2004 , 18, 347-352	0.7	3
19	Truthful Mechanism Design via Correlated Tree Rounding 2015 ,		2
18	Make-to-Order Integrated Scheduling and Distribution 2016 ,		2
17	Collaborate with Strangers to Find Own Preferences. <i>Theory of Computing Systems</i> , 2008 , 42, 27-41	0.6	2
16	. <i>Theory of Computing</i> , 2005 , 1, 105-117	1.1	2
15	Serving in the Dark should be done Non-Uniformly. <i>Lecture Notes in Computer Science</i> , 2015 , 91-102	0.9	2
14	Scheduling with Deadlines and Buffer Management with Processing Requirements. <i>Algorithmica</i> , 2017 , 78, 1246-1262	0.9	1
13	How to Allocate Goods in an Online Market?. <i>Algorithmica</i> , 2016 , 74, 589-601	0.9	1
12	2-Approximation algorithm for a generalization of scheduling on unrelated parallel machines. <i>Information Processing Letters</i> , 2018 , 139, 39-43	0.8	1
11	Buffer Management for Colored Packets with Deadlines. <i>Theory of Computing Systems</i> , 2011 , 49, 738-756.6		1
10	Truthful unsplittable flow for large capacity networks. <i>ACM Transactions on Algorithms</i> , 2010 , 6, 1-20	1.2	1
9	A Preemptive Algorithm for Maximizing Disjoint Paths on Trees. <i>Algorithmica</i> , 2010 , 57, 517-537	0.9	1
8	On-line scheduling with precedence constraints. <i>Discrete Applied Mathematics</i> , 2002 , 119, 169-180	1	1
7	Improved Online Algorithm for Weighted Flow Time 2018 ,		1
6	Approximation schemes for scheduling on parallel machines 1998 , 1, 55		1
5	Deterministic Min-Cost Matching with Delays. <i>Theory of Computing Systems</i> , 2020 , 64, 572-592	0.6	0
4	On-line restricted assignment of temporary tasks with unknown durations. <i>Information Processing Letters</i> , 2003 , 85, 67-72	0.8	0
3	Maximizing job benefits on-line. <i>Journal of Scheduling</i> , 2001 , 4, 287-296	1.6	

2	Maximum Bipartite Flow in Networks with Adaptive Channel Width. <i>Lecture Notes in Computer Science</i> , 2009 , 351-362	0.9
1	The Price of Bounded Preemption. <i>ACM Transactions on Parallel Computing</i> , 2021 , 8, 1-21	1.4