

Maxim Sviridenko

List of Publications by Year in descending order

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59
papers

2,116
citations

394390

19
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276858

41
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64
all docs

64
docs citations

64
times ranked

1216
citing authors

#	ARTICLE	IF	CITATIONS
1	A note on maximizing a submodular set function subject to a knapsack constraint. <i>Operations Research Letters</i> , 2004, 32, 41-43.	0.7	449
2	Tight approximation algorithms for maximum general assignment problems. , 2006, , .		145
3	Approximation algorithms for asymmetric TSP by decomposing directed regular multigraphs. <i>Journal of the ACM</i> , 2005, 52, 602-626.	2.2	124
4	Non-monotone submodular maximization under matroid and knapsack constraints. , 2009, , .		121
5	Maximizing Nonmonotone Submodular Functions under Matroid or Knapsack Constraints. <i>SIAM Journal on Discrete Mathematics</i> , 2010, 23, 2053-2078.	0.8	112
6	Bin Packing in Multiple Dimensions: Inapproximability Results and Approximation Schemes. <i>Mathematics of Operations Research</i> , 2006, 31, 31-49.	1.3	100
7	An Improved Approximation Algorithm for the Metric Uncapacitated Facility Location Problem. <i>Lecture Notes in Computer Science</i> , 2002, , 240-257.	1.3	97
8	Submodular Maximization over Multiple Matroids via Generalized Exchange Properties. <i>Mathematics of Operations Research</i> , 2010, 35, 795-806.	1.3	93
9	A Constant Approximation Algorithm for the One-Warehouse Multiretailer Problem. <i>Management Science</i> , 2008, 54, 763-776.	4.1	73
10	Improved approximation algorithms for multidimensional bin packing problems. , 2006, , .		55
11	A New Approximation Method for Set Covering Problems, with Applications to Multidimensional Bin Packing. <i>SIAM Journal on Computing</i> , 2010, 39, 1256-1278.	1.0	54
12	Machine scheduling with resource dependent processing times. <i>Mathematical Programming</i> , 2007, 110, 209-228.	2.4	53
13	Tight Approximation Algorithms for Maximum Separable Assignment Problems. <i>Mathematics of Operations Research</i> , 2011, 36, 416-431.	1.3	51
14	Approximation algorithms for shop scheduling problems with minsum objective. <i>Journal of Scheduling</i> , 2002, 5, 287-305.	1.9	41
15	Approximating the maximum quadratic assignment problem. <i>Information Processing Letters</i> , 2001, 77, 13-16.	0.6	32
16	Makespan Minimization in Job Shops: A Linear Time Approximation Scheme. <i>SIAM Journal on Discrete Mathematics</i> , 2003, 16, 288-300.	0.8	32
17	Online Make-to-Order Joint Replenishment Model: Primal-Dual Competitive Algorithms. <i>Operations Research</i> , 2013, 61, 1014-1029.	1.9	29
18	Approximation Algorithms for the Capacitated Multi-Item Lot-Sizing Problem via Flow-Cover Inequalities. <i>Mathematics of Operations Research</i> , 2008, 33, 461-474.	1.3	25

#	ARTICLE	IF	CITATIONS
19	A 0.5-Approximation Algorithm for MAX DICUT with Given Sizes of Parts. SIAM Journal on Discrete Mathematics, 2001, 14, 246-255.	0.8	24
20	A $(2+\hat{\mu})$ -approximation algorithm for the generalized preemptive open shop problem with minsum objective. Journal of Algorithms, 2002, 45, 202-212.	0.9	23
21	Submodular Stochastic Probing on Matroids. Mathematics of Operations Research, 2016, 41, 1022-1038.	1.3	23
22	Minimizing Makespan in No-Wait Job Shops. Mathematics of Operations Research, 2005, 30, 817-831.	1.3	22
23	Tight Bounds for Permutation Flow Shop Scheduling. Mathematics of Operations Research, 2009, 34, 417-427.	1.3	19
24	Improved Approximation Algorithms for Broadcast Scheduling. SIAM Journal on Computing, 2008, 38, 1157-1174.	1.0	17
25	A Structural Lemma in 2-Dimensional Packing, and Its Implications on Approximability. Lecture Notes in Computer Science, 2009, , 77-86.	1.3	17
26	Approximating the minimum quadratic assignment problems. ACM Transactions on Algorithms, 2009, 6, 1-10.	1.0	17
27	On the Maximum Quadratic Assignment Problem. Mathematics of Operations Research, 2009, 34, 859-868.	1.3	16
28	Matroid Matching: The Power of Local Search. SIAM Journal on Computing, 2013, 42, 357-379.	1.0	15
29	A 5/8 Approximation Algorithm for the Maximum Asymmetric TSP. SIAM Journal on Discrete Mathematics, 2003, 17, 237-248.	0.8	14
30	Energy-efficient scheduling and routing via randomized rounding. Journal of Scheduling, 2018, 21, 35-51.	1.9	14
31	Job Shop Scheduling with Unit Processing Times. Mathematics of Operations Research, 2006, 31, 381-389.	1.3	13
32	A Harmonic Algorithm for the 3D Strip Packing Problem. SIAM Journal on Computing, 2013, 42, 579-592.	1.0	13
33	Approximations for Maximum Transportation with Permutable Supply Vector and Other Capacitated Star Packing Problems. Algorithmica, 2004, 39, 175-187.	1.3	12
34	A Complete 4-parametric complexity classification of short shop scheduling problems. Journal of Scheduling, 2012, 15, 427-446.	1.9	9
35	High-multiplicity cyclic job shop scheduling. Operations Research Letters, 2008, 36, 574-578.	0.7	8
36	Matroid matching. , 2010, , .		8

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37	Approximation algorithms for the joint replenishment problem with deadlines. Journal of Scheduling, 2015, 18, 545-560.	1.9	8
38	Polynomial-Time Approximation Schemes for Circle and Other Packing Problems. Algorithmica, 2016, 76, 536-568.	1.3	8
39	Maximum Quadratic Assignment Problem: Reduction from Maximum Label Cover and LP-Based Approximation Algorithm. Lecture Notes in Computer Science, 2010, , 594-604.	1.3	8
40	Two-dimensional bin packing with one-dimensional resource augmentation. Discrete Optimization, 2007, 4, 143-153.	0.9	7
41	Preemptive and non-preemptive generalized min sum set cover. Mathematical Programming, 2014, 145, 377.	2.4	7
42	Solving Optimization Problems with Diseconomies of Scale via Decoupling. Journal of the ACM, 2018, 65, 1-27.	2.2	7
43	An Efficient Polynomial-Time Approximation Scheme for the Joint Replenishment Problem. Lecture Notes in Computer Science, 2013, , 314-323.	1.3	7
44	Maximum Quadratic Assignment Problem. ACM Transactions on Algorithms, 2014, 10, 1-18.	1.0	6
45	Polynomial-Time Approximation Schemes for Circle Packing Problems. Lecture Notes in Computer Science, 2014, , 713-724.	1.3	6
46	Tight Bounds for Permutation Flow Shop Scheduling. , 2008, , 154-168.		5
47	Approximation Algorithms for the Joint Replenishment Problem with Deadlines. Lecture Notes in Computer Science, 2013, , 135-147.	1.3	4
48	Improved approximation algorithms for metric maximum ATSP and maximum 3-cycle cover problems. Operations Research Letters, 2009, 37, 176-180.	0.7	3
49	Sum edge coloring of multigraphs via configuration LP. ACM Transactions on Algorithms, 2011, 7, 1-21.	1.0	3
50	No-Wait Flowshop Scheduling Is as Hard as Asymmetric Traveling Salesman Problem. Mathematics of Operations Research, 2016, 41, 247-254.	1.3	3
51	Approximations for Maximum Transportation Problem with Permutable Supply Vector and Other Capacitated Star Packing Problems. Lecture Notes in Computer Science, 2002, , 280-287.	1.3	2
52	Approximation algorithms for shop scheduling problems with minsum objective: A correction. Journal of Scheduling, 2006, 9, 569-570.	1.9	1
53	Concentration inequalities for nonlinear matroid intersection. Random Structures and Algorithms, 2015, 46, 541-571.	1.1	1
54	New Approximations for Broadcast Scheduling via Variants of $\hat{\pm}$ -point Rounding. , 2015, , .		1

#	ARTICLE	IF	CITATIONS
55	Complete Complexity Classification of Short Shop Scheduling. Lecture Notes in Computer Science, 2009, , 227-236.	1.3	1
56	Integrated Supply Chain Management via Randomized Rounding. Lecture Notes in Computer Science, 2014, , 562-573.	1.3	1
57	Maximizing Polynomials Subject to Assignment Constraints. ACM Transactions on Algorithms, 2017, 13, 1-15.	1.0	0
58	Integrated Supply Chain Management via Randomized Rounding. INFORMS Journal on Computing, 2018, 30, 124-136.	1.7	0
59	Maximizing Polynomials Subject to Assignment Constraints. Lecture Notes in Computer Science, 2011, , 510-520.	1.3	0