Maxim Sviridenko

List of Publications by Year
in descending order

59	2,116	448610	312153
papers	citations	19 h-index	41 g-index

64	64	64	1412
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Energy-efficient scheduling and routing via randomized rounding. Journal of Scheduling, 2018, 21, 35-51.	1.3	14
2	Integrated Supply Chain Management via Randomized Rounding. INFORMS Journal on Computing, 2018, 30, 124-136.	1.0	0
3	Solving Optimization Problems with Diseconomies of Scale via Decoupling. Journal of the ACM, 2018, 65, 1-27.	1.8	7
4	Maximizing Polynomials Subject to Assignment Constraints. ACM Transactions on Algorithms, 2017, 13, 1-15.	0.9	0
5	Submodular Stochastic Probing on Matroids. Mathematics of Operations Research, 2016, 41, 1022-1038.	0.8	23
6	No-Wait Flowshop Scheduling Is as Hard as Asymmetric Traveling Salesman Problem. Mathematics of Operations Research, 2016, 41, 247-254.	0.8	3
7	Polynomial-Time Approximation Schemes for Circle and Other Packing Problems. Algorithmica, 2016, 76, 536-568.	1.0	8
8	Concentration inequalities for nonlinear matroid intersection. Random Structures and Algorithms, 2015, 46, 541-571.	0.6	1
9	Approximation algorithms for the joint replenishment problem with deadlines. Journal of Scheduling, 2015, 18, 545-560.	1.3	8
10	New Approximations for Broadcast Scheduling via Variants of Î±-point Rounding. , 2015, , .		1
11	Preemptive and non-preemptive generalized min sum set cover. Mathematical Programming, 2014, 145, 377.	1.6	7
12	Maximum Quadratic Assignment Problem. ACM Transactions on Algorithms, 2014, 10, 1-18.	0.9	6
13	Polynomial-Time Approximation Schemes for Circle Packing Problems. Lecture Notes in Computer Science, 2014, , 713-724.	1.0	6
14	Integrated Supply Chain Management via Randomized Rounding. Lecture Notes in Computer Science, 2014, , 562-573.	1.0	1
15	Matroid Matching: The Power of Local Search. SIAM Journal on Computing, 2013, 42, 357-379.	0.8	15
16	A Harmonic Algorithm for the 3D Strip Packing Problem. SIAM Journal on Computing, 2013, 42, 579-592.	0.8	13
17	Online Make-to-Order Joint Replenishment Model: Primal-Dual Competitive Algorithms. Operations Research, 2013, 61, 1014-1029.	1.2	29
18	An Efficient Polynomial-Time Approximation Scheme for the Joint Replenishment Problem. Lecture Notes in Computer Science, 2013, , 314-323.	1.0	7

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19	Approximation Algorithms for the Joint Replenishment Problem with Deadlines. Lecture Notes in Computer Science, 2013, , 135-147.	1.0	4
20	A Complete 4-parametric complexity classification of short shop scheduling problems. Journal of Scheduling, 2012, 15, 427-446.	1.3	9
21	Tight Approximation Algorithms for Maximum Separable Assignment Problems. Mathematics of Operations Research, 2011, 36, 416-431.	0.8	51
22	Sum edge coloring of multigraphs via configuration LP. ACM Transactions on Algorithms, 2011, 7, 1-21.	0.9	3
23	Maximizing Polynomials Subject to Assignment Constraints. Lecture Notes in Computer Science, 2011, , 510-520.	1.0	0
24	Submodular Maximization over Multiple Matroids via Generalized Exchange Properties. Mathematics of Operations Research, 2010, 35, 795-806.	0.8	93
25	Matroid matching. , 2010, , .		8
26	A New Approximation Method for Set Covering Problems, with Applications to Multidimensional Bin Packing. SIAM Journal on Computing, 2010, 39, 1256-1278.	0.8	54
27	Maximizing Nonmonotone Submodular Functions under Matroid or Knapsack Constraints. SIAM Journal on Discrete Mathematics, 2010, 23, 2053-2078.	0.4	112
28	Maximum Quadratic Assignment Problem: Reduction from Maximum Label Cover and LP-Based Approximation Algorithm. Lecture Notes in Computer Science, 2010, , 594-604.	1.0	8
29	A Structural Lemma in 2-Dimensional Packing, and Its Implications on Approximability. Lecture Notes in Computer Science, 2009, , 77-86.	1.0	17
30	Non-monotone submodular maximization under matroid and knapsack constraints. , 2009, , .		121
31	Approximating the minimum quadratic assignment problems. ACM Transactions on Algorithms, 2009, 6, 1-10.	0.9	17
32	Tight Bounds for Permutation Flow Shop Scheduling. Mathematics of Operations Research, 2009, 34, 417-427.	0.8	19
33	Improved approximation algorithms for metric maximum ATSP and maximum 3-cycle cover problems. Operations Research Letters, 2009, 37, 176-180.	0.5	3
34	On the Maximum Quadratic Assignment Problem. Mathematics of Operations Research, 2009, 34, 859-868.	0.8	16
35	Complete Complexity Classification of Short Shop Scheduling. Lecture Notes in Computer Science, 2009, , 227-236.	1.0	1
36	High-multiplicity cyclic job shop scheduling. Operations Research Letters, 2008, 36, 574-578.	0.5	8

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37	Improved Approximation Algorithms for Broadcast Scheduling. SIAM Journal on Computing, 2008, 38, 1157-1174.	0.8	17
38	A Constant Approximation Algorithm for the One-Warehouse Multiretailer Problem. Management Science, 2008, 54, 763-776.	2.4	73
39	Approximation Algorithms for the Capacitated Multi-Item Lot-Sizing Problem via Flow-Cover Inequalities. Mathematics of Operations Research, 2008, 33, 461-474.	0.8	25
40	Tight Bounds for Permutation Flow Shop Scheduling. , 2008, , 154-168.		5
41	Two-dimensional bin packing with one-dimensional resource augmentation. Discrete Optimization, 2007, 4, 143-153.	0.6	7
42	Machine scheduling with resource dependent processing times. Mathematical Programming, 2007, 110, 209-228.	1.6	53
43	Improved approximation algorithms for multidimensional bin packing problems. , 2006, , .		55
44	Tight approximation algorithms for maximum general assignment problems. , 2006, , .		145
45	Job Shop Scheduling with Unit Processing Times. Mathematics of Operations Research, 2006, 31, 381-389.	0.8	13
46	Approximation algorithms for shop scheduling problems with minsum objective: A correction. Journal of Scheduling, 2006, 9, 569-570.	1.3	1
47	Bin Packing in Multiple Dimensions: Inapproximability Results and Approximation Schemes. Mathematics of Operations Research, 2006, 31, 31-49.	0.8	100
48	Minimizing Makespan in No-Wait Job Shops. Mathematics of Operations Research, 2005, 30, 817-831.	0.8	22
49	Approximation algorithms for asymmetric TSP by decomposing directed regular multigraphs. Journal of the ACM, 2005, 52, 602-626.	1.8	124
50	Approximations for Maximum Transportation with Permutable Supply Vector and Other Capacitated Star Packing Problems. Algorithmica, 2004, 39, 175-187.	1.0	12
51	A note on maximizing a submodular set function subject to a knapsack constraint. Operations Research Letters, 2004, 32, 41-43.	0.5	449
52	Makespan Minimization in Job Shops: A Linear Time Approximation Scheme. SIAM Journal on Discrete Mathematics, 2003, 16, 288-300.	0.4	32
53	A 5/8 Approximation Algorithm for the Maximum Asymmetric TSP. SIAM Journal on Discrete Mathematics, 2003, 17, 237-248.	0.4	14
54	An Improved Approximation Algorithm for the Metric Uncapacitated Facility Location Problem. Lecture Notes in Computer Science, 2002, , 240-257.	1.0	97

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55	Approximation algorithms for shop scheduling problems with minsum objective. Journal of Scheduling, 2002, 5, 287-305.	1.3	41
56	A (2+Îµ)-approximation algorithm for the generalized preemptive open shop problem with minsum objective. Journal of Algorithms, 2002, 45, 202-212.	0.9	23
57	Approximations for Maximum Transportation Problem with Permutable Supply Vector and Other Capacitated Star Packing Problems. Lecture Notes in Computer Science, 2002, , 280-287.	1.0	2
58	Approximating the maximum quadratic assignment problem. Information Processing Letters, 2001, 77, 13-16.	0.4	32
59	A 0.5-Approximation Algorithm for MAX DICUT with Given Sizes of Parts. SIAM Journal on Discrete Mathematics, 2001, 14, 246-255.	0.4	24