

Oleg A Prokopyev

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.

71
papers

1,012
citations

18
h-index

29
g-index

76
ext. papers

1,208
ext. citations

2.3
avg, IF

4.69
L-index

#	Paper	IF	Citations
71	The equitable dispersion problem. <i>European Journal of Operational Research</i> , 2009 , 197, 59-67	5.6	75
70	An integer programming framework for critical elements detection in graphs. <i>Journal of Combinatorial Optimization</i> , 2014 , 28, 233-273	0.9	65
69	A new linearization technique for multi-quadratic 0-1 programming problems. <i>Operations Research Letters</i> , 2004 , 32, 517-522	1	62
68	Stochastic Operating Room Scheduling for High-Volume Specialties Under Block Booking. <i>INFORMS Journal on Computing</i> , 2013 , 25, 682-692	2.4	57
67	Critical nodes for distance-based connectivity and related problems in graphs. <i>Networks</i> , 2015 , 66, 170-195	1.9	54
66	Seizure warning algorithm based on optimization and nonlinear dynamics. <i>Mathematical Programming</i> , 2004 , 101, 365	2.1	50
65	Electroencephalogram (EEG) time series classification: Applications in epilepsy. <i>Annals of Operations Research</i> , 2006 , 148, 227-250	3.2	47
64	Feature Selection for Consistent Biclustering via Fractional 0-1 Programming. <i>Journal of Combinatorial Optimization</i> , 2005 , 10, 7-21	0.9	37
63	Scheduling Preventive Maintenance as a Function of an Imperfect Inspection Interval. <i>IEEE Transactions on Reliability</i> , 2015 , 64, 983-997	4.6	35
62	Optimizing the Societal Benefits of the Annual Influenza Vaccine: A Stochastic Programming Approach. <i>Operations Research</i> , 2011 , 59, 1131-1143	2.3	33
61	On complexity of unconstrained hyperbolic 0-1 programming problems. <i>Operations Research Letters</i> , 2005 , 33, 312-318	1	33
60	Exact MIP-based approaches for finding maximum quasi-cliques and dense subgraphs. <i>Computational Optimization and Applications</i> , 2016 , 64, 177-214	1.4	24
59	Lower Bound Improvement and Forcing Rule for Quadratic Binary Programming. <i>Computational Optimization and Applications</i> , 2006 , 33, 187-208	1.4	24
58	Sequential Shortest Path Interdiction with Incomplete Information. <i>Decision Analysis</i> , 2016 , 13, 68-98	1.2	23
57	Checking solvability of systems of interval linear equations and inequalities via mixed integer programming. <i>European Journal of Operational Research</i> , 2009 , 199, 117-121	5.6	22
56	Global equilibrium search applied to the unconstrained binary quadratic optimization problem. <i>Optimization Methods and Software</i> , 2008 , 23, 129-140	1.3	22
55	Fractional 0-1 programming: applications and algorithms. <i>Journal of Global Optimization</i> , 2017 , 69, 255-282	2.5	21

54	A note on linearized reformulations for a class of bilevel linear integer problems. <i>Annals of Operations Research</i> , 2019 , 272, 99-117	3.2	19
53	A simple technique to improve linearized reformulations of fractional (hyperbolic) 0-1 programming problems. <i>Operations Research Letters</i> , 2016 , 44, 479-486	1	17
52	The bilevel knapsack problem with stochastic right-hand sides. <i>Operations Research Letters</i> , 2010 , 38, 328-333	1	16
51	Finding groups with maximum betweenness centrality. <i>Optimization Methods and Software</i> , 2017 , 32, 369-399	1.3	15
50	On a Level-Set Characterization of the Value Function of an Integer Program and Its Application to Stochastic Programming. <i>Operations Research</i> , 2013 , 61, 498-511	2.3	15
49	On algorithm portfolios and restart strategies. <i>Operations Research Letters</i> , 2011 , 39, 49-52	1	15
48	Wildfire fuel management: Network-based models and optimization of prescribed burning. <i>European Journal of Operational Research</i> , 2018 , 264, 774-796	5.6	14
47	On maximum degree-based α -quasi-clique problem: Complexity and exact approaches. <i>Networks</i> , 2018 , 71, 136-152	1.6	13
46	Finding maximum subgraphs with relatively large vertex connectivity. <i>European Journal of Operational Research</i> , 2014 , 239, 349-362	5.6	13
45	Exact solution approach for a class of nonlinear bilevel knapsack problems. <i>Journal of Global Optimization</i> , 2015 , 61, 291-310	1.5	11
44	Two-stage quadratic integer programs with stochastic right-hand sides. <i>Mathematical Programming</i> , 2012 , 133, 121-158	2.1	11
43	Sequential Interdiction with Incomplete Information and Learning. <i>Operations Research</i> , 2019 , 67, 72-89	2.3	10
42	Optimal planning of life-depleting maintenance activities. <i>IIE Transactions</i> , 2014 , 46, 636-652		10
41	Optimal planning of unpunctual preventive maintenance. <i>IIE Transactions</i> , 2017 , 49, 127-143	3.3	9
40	Exact solution approaches for bilevel assignment problems. <i>Computational Optimization and Applications</i> , 2016 , 64, 215-242	1.4	9
39	On a class of bilevel linear mixed-integer programs in adversarial settings. <i>Journal of Global Optimization</i> , 2018 , 71, 91-113	1.5	8
38	Solving the Order-Preserving Submatrix Problem via Integer Programming. <i>INFORMS Journal on Computing</i> , 2010 , 22, 387-400	2.4	8
37	Solving weighted MAX-SAT via global equilibrium search. <i>Operations Research Letters</i> , 2008 , 36, 434-438	1	8

36	On provably best construction heuristics for hard combinatorial optimization problems. <i>Networks</i> , 2016 , 67, 238-245	1.6	8
35	Solving Stochastic and Bilevel Mixed-Integer Programs via a Generalized Value Function. <i>Operations Research</i> , 2019 , 67, 1659-1677	2.3	7
34	The Surgical Patient Routing Problem: A Central Planner Approach. <i>INFORMS Journal on Computing</i> , 2016 , 28, 657-673	2.4	7
33	A global optimization algorithm for solving the minimum multiple ratio spanning tree problem. <i>Journal of Global Optimization</i> , 2013 , 56, 1029-1043	1.5	6
32	Optimal Design of the Seasonal Influenza Vaccine with Manufacturing Autonomy. <i>INFORMS Journal on Computing</i> , 2018 , 30, 371-387	2.4	6
31	On exact solution approaches for the longest induced path problem. <i>European Journal of Operational Research</i> , 2019 , 278, 546-562	5.6	5
30	Critical arcs detection in influence networks. <i>Networks</i> , 2018 , 71, 412-431	1.6	5
29	On Maximum Speedup Ratio of Restart Algorithm Portfolios. <i>INFORMS Journal on Computing</i> , 2013 , 25, 222-229	2.4	5
28	Finding checkerboard patterns via fractional 0-1 programming. <i>Journal of Combinatorial Optimization</i> , 2010 , 20, 1-26	0.9	5
27	Fractional 0-1 programs: links between mixed-integer linear and conic quadratic formulations. <i>Journal of Global Optimization</i> , 2019 , 75, 273-339	1.5	4
26	A note on constraint aggregation and value functions for two-stage stochastic integer programs. <i>Discrete Optimization</i> , 2015 , 15, 37-45	1	4
25	On Bilevel Optimization with Inexact Follower. <i>Decision Analysis</i> , 2020 , 17, 74-95	1.2	4
24	On characterization of maximal independent sets via quadratic optimization. <i>Journal of Heuristics</i> , 2013 , 19, 629-644	1.9	4
23	A short note on solvability of systems of interval linear equations. <i>Linear and Multilinear Algebra</i> , 2011 , 59, 707-710	0.7	4
22	Finding influential groups in networked systems: The most degree-central clique problem. <i>Omega</i> , 2021 , 101, 102262	7.2	4
21	A simple greedy heuristic for linear assignment interdiction. <i>Annals of Operations Research</i> , 2017 , 249, 39-53	3.2	3
20	Finding Critical Links for Closeness Centrality. <i>INFORMS Journal on Computing</i> , 2019 , 31, 367-389	2.4	3
19	Optimal Implantable Cardioverter Defibrillator (ICD) Generator Replacement. <i>INFORMS Journal on Computing</i> , 2014 , 26, 599-615	2.4	3

18	Managing patient backlog in a surgical suite that uses a block-booking scheduling system 2011 ,		3
17	A Mixed-Integer Fractional Optimization Approach to Best Subset Selection. <i>INFORMS Journal on Computing</i> ,	2.4	3
16	Optimal Age-Replacement in Anticipation of Time-Dependent, Unpunctual Policy Implementation. <i>IEEE Transactions on Reliability</i> , 2021 , 70, 1177-1192	4.6	3
15	Network-Based Techniques in EEG Data Analysis and Epileptic Brain Modeling. <i>Springer Optimization and Its Applications</i> , 2007 , 559-573	0.4	3
14	Robustness of solutions to critical node detection problems with imperfect data: a computational study. <i>Optimization Methods and Software</i> , 2017 , 32, 250-273	1.3	2
13	On the maximum small-world subgraph problem. <i>European Journal of Operational Research</i> , 2020 , 280, 818-831	5.6	2
12	On exact solution approaches for bilevel quadratic 0-1 knapsack problem. <i>Annals of Operations Research</i> , 2021 , 298, 555-572	3.2	2
11	On Robust Fractional 0-1 Programming. <i>INFORMS Journal on Optimization</i> , 2020 , 2, 96-133	1.6	1
10	On greedy and strategic evaders in sequential interdiction settings with incomplete information. <i>Omega</i> , 2020 , 92, 102161	7.2	1
9	On bilevel minimum and bottleneck spanning tree problems. <i>Networks</i> , 2019 , 74, 251-273	1.6	0
8	Solving a class of feature selection problems via fractional 0-1 programming. <i>Annals of Operations Research</i> , 2021 , 303, 265-295	3.2	0
7	On integer programming models for the maximum 2-club problem and its robust generalizations in sparse graphs. <i>European Journal of Operational Research</i> , 2021 , 297, 86-86	5.6	0
6	Fractional 0-1 programming and submodularity. <i>Journal of Global Optimization</i> ,1	1.5	
5	Restart Strategies 2015 , 1-16		
4	Operations Research Techniques in Wildfire Fuel Management. <i>Springer Optimization and Its Applications</i> , 2017 , 119-135	0.4	
3	Optimization Letters Best Paper Award for 2019. <i>Optimization Letters</i> , 2021 , 15, 1-2	1.1	
2	Restart Strategies 2018 , 205-220		
1	Exact solution approaches for a class of bilevel fractional programs. <i>Optimization Letters</i> ,1	1.1	

