

Ivana Ljubic

List of Publications by Year in descending order

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92
papers

2,065
citations

304602

22
h-index

289141

40
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96
all docs

96
docs citations

96
times ranked

1272
citing authors

#	ARTICLE	IF	CITATIONS
1	A tailored Benders decomposition approach for last-mile delivery with autonomous robots. <i>European Journal of Operational Research</i> , 2022, 299, 510-525.	3.5	30
2	Budgeting in International Humanitarian Organizations. <i>Manufacturing and Service Operations Management</i> , 2022, 24, 1562-1577.	2.3	8
3	Comparison of formulations for the Inventory Routing Problem. <i>European Journal of Operational Research</i> , 2022, 303, 997-1008.	3.5	13
4	Arc Routing with Electric Vehicles: Dynamic Charging and Speed-Dependent Energy Consumption. <i>Transportation Science</i> , 2022, 56, 1219-1237.	2.6	4
5	SOCP-Based Disjunctive Cuts for a Class of Integer Nonlinear Bilevel Programs. <i>Lecture Notes in Computer Science</i> , 2022, , 262-276.	1.0	1
6	The Generalized Reserve Set Covering Problem with Connectivity and Buffer Requirements. <i>European Journal of Operational Research</i> , 2021, 289, 1013-1029.	3.5	10
7	An exact method for assortment optimization under the nested logit model. <i>European Journal of Operational Research</i> , 2021, 291, 830-845.	3.5	10
8	Benders decomposition for a node-capacitated Virtual Network Function placement and routing problem. <i>Computers and Operations Research</i> , 2021, 130, 105227.	2.4	5
9	A Survey on Mixed-Integer Programming Techniques in Bilevel Optimization. <i>EURO Journal on Computational Optimization</i> , 2021, 9, 100007.	1.5	65
10	A branch-and-cut algorithm for the Edge Interdiction Clique Problem. <i>European Journal of Operational Research</i> , 2021, 294, 54-69.	3.5	12
11	Solving Steiner trees: Recent advances, challenges, and perspectives. <i>Networks</i> , 2021, 77, 177-204.	1.6	29
12	Exact approaches for the directed network design problem with relays. <i>Omega</i> , 2020, 91, 102005.	3.6	2
13	On integer and bilevel formulations for the k -vertex cut problem. <i>Mathematical Programming Computation</i> , 2020, 12, 133-164.	3.2	14
14	Preface: decomposition methods for hard optimization problems. <i>Annals of Operations Research</i> , 2020, 284, 483-485.	2.6	2
15	A polyhedral study of the diameter constrained minimum spanning tree problem. <i>Discrete Applied Mathematics</i> , 2020, 285, 364-379.	0.5	4
16	Location of Charging Stations in Electric Car Sharing Systems. <i>Transportation Science</i> , 2020, 54, 1408-1438.	2.6	38
17	The incremental connected facility location problem. <i>Computers and Operations Research</i> , 2019, 112, 104763.	2.4	7
18	Interdiction Games and Monotonicity, with Application to Knapsack Problems. <i>INFORMS Journal on Computing</i> , 2019, 31, 390-410.	1.0	50

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19	A new branch-and-bound algorithm for the maximum edge-weighted clique problem. European Journal of Operational Research, 2019, 278, 76-90.	3.5	19
20	The maximum clique interdiction problem. European Journal of Operational Research, 2019, 277, 112-127.	3.5	28
21	Benders decomposition for very large scale partial set covering and maximal covering location problems. European Journal of Operational Research, 2019, 275, 882-896.	3.5	62
22	Exact Approaches for Network Design Problems with Relays. INFORMS Journal on Computing, 2019, 31, 171-192.	1.0	8
23	Tighter MIP models for Barge Container Ship Routing. Omega, 2019, 82, 38-54.	3.6	23
24	Decomposition methods for the two-stage stochastic Steiner tree problem. Computational Optimization and Applications, 2018, 69, 713-752.	0.9	4
25	The connected facility location polytope. Discrete Applied Mathematics, 2018, 234, 151-167.	0.5	7
26	Outer approximation and submodular cuts for maximum capture facility location problems with random utilities. European Journal of Operational Research, 2018, 266, 46-56.	3.5	60
27	On the use of intersection cuts for bilevel optimization. Mathematical Programming, 2018, 172, 77-103.	1.6	47
28	A Dual Ascent-Based Branch-and-Bound Framework for the Prize-Collecting Steiner Tree and Related Problems. INFORMS Journal on Computing, 2018, 30, 402-420.	1.0	21
29	Redesigning Benders Decomposition for Large-Scale Facility Location. Management Science, 2017, 63, 2146-2162.	2.4	134
30	An algorithmic framework for the exact solution of tree-star problems. European Journal of Operational Research, 2017, 261, 54-66.	3.5	15
31	Thinning out Steiner trees: a node-based model for uniform edge costs. Mathematical Programming Computation, 2017, 9, 203-229.	3.2	64
32	A node-based ILP formulation for the node-weighted dominating Steiner problem. Networks, 2017, 69, 33-51.	1.6	3
33	An effective dynamic programming algorithm for the minimum-cost maximal knapsack packing problem. European Journal of Operational Research, 2017, 262, 438-448.	3.5	22
34	A New General-Purpose Algorithm for Mixed-Integer Bilevel Linear Programs. Operations Research, 2017, 65, 1615-1637.	1.2	109
35	Solving minimum-cost shared arborescence problems. European Journal of Operational Research, 2017, 258, 887-901.	3.5	2
36	Stochastic survivable network design problems: Theory and practice. European Journal of Operational Research, 2017, 256, 333-348.	3.5	8

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37	ILP heuristics and a new exact method for bi-objective 0/1 ILPs: Application to FTTx-network design. Computers and Operations Research, 2016, 72, 128-146.	2.4	14
38	A node-based layered graph approach for the Steiner tree problem with revenues, budget and hop-constraints. Mathematical Programming Computation, 2016, 8, 461-490.	3.2	7
39	Benders decomposition without separability: A computational study for capacitated facility location problems. European Journal of Operational Research, 2016, 253, 557-569.	3.5	101
40	Intersection Cuts for Bilevel Optimization. Lecture Notes in Computer Science, 2016, , 77-88.	1.0	23
41	A Computational Study of Exact Approaches for the Bi-Objective Prize-Collecting Steiner Tree Problem. INFORMS Journal on Computing, 2015, 27, 118-134.	1.0	15
42	The Recoverable Robust Two-Level Network Design Problem. INFORMS Journal on Computing, 2015, 27, 1-19.	1.0	14
43	The recoverable robust facility location problem. Transportation Research Part B: Methodological, 2015, 79, 93-120.	2.8	35
44	The Generalized Regenerator Location Problem. INFORMS Journal on Computing, 2015, 27, 204-220.	1.0	23
45	The two-level diameter constrained spanning tree problem. Mathematical Programming, 2015, 150, 49-78.	1.6	11
46	ILP and CP Formulations for the Lazy Bureaucrat Problem. Lecture Notes in Computer Science, 2015, , 255-270.	1.0	2
47	A Partition-Based Heuristic for the Steiner Tree Problem in Large Graphs. Lecture Notes in Computer Science, 2014, , 56-70.	1.0	4
48	A MIP-based approach to solve the prize-collecting local access network design problem. European Journal of Operational Research, 2014, 235, 727-739.	3.5	6
49	Hop constrained Steiner trees with multiple root nodes. European Journal of Operational Research, 2014, 236, 100-112.	3.5	20
50	On the Asymmetric Connected Facility Location Polytope. Lecture Notes in Computer Science, 2014, , 371-383.	1.0	6
51	A note on the Bertsimas & Sim algorithm for robust combinatorial optimization problems. 4or, 2013, 11, 349-360.	1.0	28
52	Lagrangian decompositions for the two-level FTTx network design problem. EURO Journal on Computational Optimization, 2013, 1, 221-252.	1.5	18
53	Exact approaches for solving robust prize-collecting Steiner tree problems. European Journal of Operational Research, 2013, 229, 599-612.	3.5	11
54	On the Two-Architecture Connected Facility Location Problem. Electronic Notes in Discrete Mathematics, 2013, 41, 359-366.	0.4	8

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55	Solving the bi-objective prize-collecting Steiner tree problem with the $\bar{\mu}$ -constraint method. Electronic Notes in Discrete Mathematics, 2013, 41, 181-188.	0.4	5
56	Stochastic Survivable Network Design Problems. Electronic Notes in Discrete Mathematics, 2013, 41, 245-252.	0.4	6
57	A cutting plane algorithm for the Capacitated Connected Facility Location Problem. Computational Optimization and Applications, 2013, 55, 647-674.	0.9	15
58	Enhanced formulations and branch-and-cut for the two level network design problem with transition facilities. European Journal of Operational Research, 2013, 225, 211-222.	3.5	13
59	Layered Graph Approaches to the Hop Constrained Connected Facility Location Problem. INFORMS Journal on Computing, 2013, 25, 256-270.	1.0	23
60	The Rooted Maximum Node-Weight Connected Subgraph Problem. Lecture Notes in Computer Science, 2013, , 300-315.	1.0	15
61	The Maximum Weight Connected Subgraph Problem. , 2013, , 245-270.		38
62	QTL Mapping Using a Memetic Algorithm with Modifications of BIC as Fitness Function. Statistical Applications in Genetics and Molecular Biology, 2012, 11, Article 2.	0.2	6
63	Variable Neighborhood Search for Solving the Balanced Location Problem. Electronic Notes in Discrete Mathematics, 2012, 39, 21-28.	0.4	4
64	Exact approaches to the single-source network loading problem. Networks, 2012, 59, 89-106.	1.6	23
65	On the Hop Constrained Steiner Tree Problem with Multiple Root Nodes. Lecture Notes in Computer Science, 2012, , 201-212.	1.0	2
66	MIP models for connected facility location: A theoretical and computational study. Computers and Operations Research, 2011, 38, 435-449.	2.4	69
67	MIP Modeling of Incremental Connected Facility Location. Lecture Notes in Computer Science, 2011, , 490-502.	1.0	5
68	The Two Level Network Design Problem with Secondary Hop Constraints. Lecture Notes in Computer Science, 2011, , 71-76.	1.0	1
69	A Heuristic Algorithm for a Prize-Collecting Local Access Network Design Problem. Lecture Notes in Computer Science, 2011, , 139-144.	1.0	0
70	The regenerator location problem. Networks, 2010, 55, 205-220.	1.6	30
71	Orientation-based models for $\{0,1,2\}$ -survivable network design: theory and practice. Mathematical Programming, 2010, 124, 413-439.	1.6	14
72	A branch-and-cut-price algorithm for vertex-biconnectivity augmentation. Networks, 2010, 56, 169-182.	1.6	5

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73	Modelling the Hop Constrained Connected Facility Location Problem on Layered Graphs. <i>Electronic Notes in Discrete Mathematics</i> , 2010, 36, 207-214.	0.4	9
74	Solving Two-Stage Stochastic Steiner Tree Problems by Two-Stage Branch-and-Cut. <i>Lecture Notes in Computer Science</i> , 2010, , 427-439.	1.0	7
75	Obtaining optimal k -cardinality trees fast. <i>Journal of Experimental Algorithmics</i> , 2009, 14, .	0.7	11
76	A GRASP Algorithm for the Connected Facility Location Problem. , 2008, , .		13
77	Strong Formulations for 2-Node-Connected Steiner Network Problems. <i>Lecture Notes in Computer Science</i> , 2008, , 190-200.	1.0	7
78	A Hybrid VNS for Connected Facility Location. , 2007, , 157-169.		20
79	An Algorithmic Framework for the Exact Solution of the Prize-Collecting Steiner Tree Problem. <i>Mathematical Programming</i> , 2006, 105, 427-449.	1.6	171
80	Combining a Memetic Algorithm with Integer Programming to Solve the Prize-Collecting Steiner Tree Problem. <i>Lecture Notes in Computer Science</i> , 2004, , 1304-1315.	1.0	29
81	A Memetic Algorithm for Minimum-Cost Vertex-Biconnectivity Augmentation of Graphs. <i>Journal of Heuristics</i> , 2003, 9, 401-427.	1.1	11
82	A Genetic Algorithm for the Index Selection Problem. <i>Lecture Notes in Computer Science</i> , 2003, , 280-290.	1.0	24
83	The Fractional Prize-Collecting Steiner Tree Problem on Trees. <i>Lecture Notes in Computer Science</i> , 2003, , 691-702.	1.0	17
84	Evolutionary local search for the edge-biconnectivity augmentation problem. <i>Information Processing Letters</i> , 2002, 82, 39-45.	0.4	12
85	A Memetic Algorithm for Vertex-Biconnectivity Augmentation. <i>Lecture Notes in Computer Science</i> , 2002, , 102-111.	1.0	6
86	A Genetic Algorithm for the Uncapacitated Network Design Problem. , 2002, , 329-336.		0
87	Solving the simple plant location problem by genetic algorithm. <i>RAIRO - Operations Research</i> , 2001, 35, 127-142.	1.0	135
88	An Evolutionary Algorithm with Stochastic Hill-Climbing for the Edge-Biconnectivity Augmentation Problem. <i>Lecture Notes in Computer Science</i> , 2001, , 20-29.	1.0	6
89	A Hybrid GA for the Edge-Biconnectivity Augmentation Problem. <i>Lecture Notes in Computer Science</i> , 2000, , 641-650.	1.0	8
90	A genetic algorithm for the biconnectivity augmentation problem. , 0, , .		5

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91	Casting Light on the Hidden Bilevel Combinatorial Structure of the Capacitated Vertex Separator Problem. Operations Research, 0, , .	1.2	4
92	Budgeting in International Humanitarian Organizations. SSRN Electronic Journal, 0, , .	0.4	0