Ivana Ljubic

List of Publications by Year
in descending order

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92	2,065	304368	288905
papers	citations	22 h-index	40 g-index

96	96	96	1272
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	An Algorithmic Framework for the Exact Solution of the Prize-Collecting Steiner Tree Problem. Mathematical Programming, 2006, 105, 427-449.	1.6	171
2	Solving the simple plant location problem by genetic algorithm. RAIRO - Operations Research, 2001, 35, 127-142.	1.0	135
3	Redesigning Benders Decomposition for Large-Scale Facility Location. Management Science, 2017, 63, 2146-2162.	2.4	134
4	A New General-Purpose Algorithm for Mixed-Integer Bilevel Linear Programs. Operations Research, 2017, 65, 1615-1637.	1.2	109
5	Benders decomposition without separability: A computational study for capacitated facility location problems. European Journal of Operational Research, 2016, 253, 557-569.	3.5	101
6	MIP models for connected facility location: A theoretical and computational study. Computers and Operations Research, 2011, 38, 435-449.	2.4	69
7	A Survey on Mixed-Integer Programming Techniques in Bilevel Optimization. EURO Journal on Computational Optimization, 2021, 9, 100007.	1.5	65
8	Thinning out Steiner trees: a node-based model for uniform edge costs. Mathematical Programming Computation, 2017, 9, 203-229.	3.2	64
9	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
10	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
11	Interdiction Games and Monotonicity, with Application to Knapsack Problems. INFORMS Journal on Computing, 2019, 31, 390-410.	1.0	50
12	On the use of intersection cuts for bilevel optimization. Mathematical Programming, 2018, 172, 77-103.	1.6	47
13	Location of Charging Stations in Electric Car Sharing Systems. Transportation Science, 2020, 54, 1408-1438.	2.6	38
14	The Maximum Weight Connected Subgraph Problem. , 2013, , 245-270.		38
15	The recoverable robust facility location problem. Transportation Research Part B: Methodological, 2015, 79, 93-120.	2.8	35
16	The regenerator location problem. Networks, 2010, 55, 205-220.	1.6	30
17	A tailored Benders decomposition approach for last-mile delivery with autonomous robots. European Journal of Operational Research, 2022, 299, 510-525.	3.5	30
18	Solving Steiner trees: Recent advances, challenges, and perspectives. Networks, 2021, 77, 177-204.	1.6	29

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19	Combining a Memetic Algorithm with Integer Programming to Solve the Prize-Collecting Steiner Tree Problem. Lecture Notes in Computer Science, 2004, , 1304-1315.	1.0	29
20	A note on the Bertsimas & Sim algorithm for robust combinatorial optimization problems. 4or, 2013, 11, 349-360.	1.0	28
21	The maximum clique interdiction problem. European Journal of Operational Research, 2019, 277, 112-127.	3.5	28
22	A Genetic Algorithm for the Index Selection Problem. Lecture Notes in Computer Science, 2003, , 280-290.	1.0	24
23	Exact approaches to the singleâ€source network loading problem. Networks, 2012, 59, 89-106.	1.6	23
24	Layered Graph Approaches to the Hop Constrained Connected Facility Location Problem. INFORMS Journal on Computing, 2013, 25, 256-270.	1.0	23
25	The Generalized Regenerator Location Problem. INFORMS Journal on Computing, 2015, 27, 204-220.	1.0	23
26	Tighter MIP models for Barge Container Ship Routing. Omega, 2019, 82, 38-54.	3.6	23
27	Intersection Cuts for Bilevel Optimization. Lecture Notes in Computer Science, 2016, , 77-88.	1.0	23
28	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
29	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
30	Hop constrained Steiner trees with multiple root nodes. European Journal of Operational Research, 2014, 236, 100-112.	3.5	20
31	A Hybrid VNS for Connected Facility Location. , 2007, , 157-169.		20
32	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
33	Lagrangian decompositions for the two-level FTTx network design problem. EURO Journal on Computational Optimization, 2013, 1, 221-252.	1.5	18
34	The Fractional Prize-Collecting Steiner Tree Problem on Trees. Lecture Notes in Computer Science, 2003, , 691-702.	1.0	17
35	A cutting plane algorithm for the Capacitated Connected Facility Location Problem. Computational Optimization and Applications, 2013, 55, 647-674.	0.9	15
36	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

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37	An algorithmic framework for the exact solution of tree-star problems. European Journal of Operational Research, 2017, 261, 54-66.	3.5	15
38	The Rooted Maximum Node-Weight Connected Subgraph Problem. Lecture Notes in Computer Science, 2013, , 300-315.	1.0	15
39	Orientation-based models for {0,1,2}-survivable network design: theory and practice. Mathematical Programming, 2010, 124, 413-439.	1.6	14
40	The Recoverable Robust Two-Level Network Design Problem. INFORMS Journal on Computing, 2015, 27, 1-19.	1.0	14
41	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
42	On integer and bilevel formulations for the k-vertex cut problem. Mathematical Programming Computation, 2020, 12, 133-164.	3.2	14
43	A GRASP Algorithm for the Connected Facility Location Problem. , 2008, , .		13
44	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
45	Comparison of formulations for the Inventory Routing Problem. European Journal of Operational Research, 2022, 303, 997-1008.	3.5	13
46	Evolutionary local search for the edge-biconnectivity augmentation problem. Information Processing Letters, 2002, 82, 39-45.	0.4	12
47	A branch-and-cut algorithm for the Edge Interdiction Clique Problem. European Journal of Operational Research, 2021, 294, 54-69.	3.5	12
48	A Memetic Algorithm for Minimum-Cost Vertex-Biconnectivity Augmentation of Graphs. Journal of Heuristics, 2003, 9, 401-427.	1.1	11
49	Obtaining optimal k -cardinality trees fast. Journal of Experimental Algorithmics, 2009, 14, .	0.7	11
50	Exact approaches for solving robust prize-collecting Steiner tree problems. European Journal of Operational Research, 2013, 229, 599-612.	3.5	11
51	The two-level diameter constrained spanning tree problem. Mathematical Programming, 2015, 150, 49-78.	1.6	11
52	The Generalized Reserve Set Covering Problem with Connectivity and Buffer Requirements. European Journal of Operational Research, 2021, 289, 1013-1029.	3.5	10
53	An exact method for assortment optimization under the nested logit model. European Journal of Operational Research, 2021, 291, 830-845.	3.5	10
54	Modelling the Hop Constrained Connected Facility Location Problem on Layered Graphs. Electronic Notes in Discrete Mathematics, 2010, 36, 207-214.	0.4	9

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55	On the Two-Architecture Connected Facility Location Problem. Electronic Notes in Discrete Mathematics, 2013, 41, 359-366.	0.4	8
56	Stochastic survivable network design problems: Theory and practice. European Journal of Operational Research, 2017, 256, 333-348.	3.5	8
57	Exact Approaches for Network Design Problems with Relays. INFORMS Journal on Computing, 2019, 31, 171-192.	1.0	8
58	A Hybrid GA for the Edge-Biconnectivity Augmentation Problem. Lecture Notes in Computer Science, 2000, , 641-650.	1.0	8
59	Budgeting in International Humanitarian Organizations. Manufacturing and Service Operations Management, 2022, 24, 1562-1577.	2.3	8
60	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
61	The connected facility location polytope. Discrete Applied Mathematics, 2018, 234, 151-167.	0.5	7
62	The incremental connected facility location problem. Computers and Operations Research, 2019, 112, 104763.	2.4	7
63	Strong Formulations for 2-Node-Connected Steiner Network Problems. Lecture Notes in Computer Science, 2008, , 190-200.	1.0	7
64	Solving Two-Stage Stochastic Steiner Tree Problems by Two-Stage Branch-and-Cut. Lecture Notes in Computer Science, 2010, , 427-439.	1.0	7
65	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
66	Stochastic Survivable Network Design Problems. Electronic Notes in Discrete Mathematics, 2013, 41, 245-252.	0.4	6
67	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
68	A Memetic Algorithm for Vertex-Biconnectivity Augmentation. Lecture Notes in Computer Science, 2002, , 102-111.	1.0	6
69	On the Asymmetric Connected Facility Location Polytope. Lecture Notes in Computer Science, 2014, , 371-383.	1.0	6
70	An Evolutionary Algorithm with Stochastic Hill-Climbing for the Edge-Biconnectivity Augmentation Problem. Lecture Notes in Computer Science, 2001, , 20-29.	1.0	6
71	A genetic algorithm for the biconnectivity augmentation problem. , 0, , .		5
72	A branchâ€andâ€cutâ€andâ€price algorithm for vertexâ€biconnectivity augmentation. Networks, 2010, 56, 169-182.	1.6	5

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73	Solving the bi-objective prize-collecting Steiner tree problem with the Ïµ-constraint method. Electronic Notes in Discrete Mathematics, 2013, 41, 181-188.	0.4	5
74	Benders decomposition for a node-capacitated Virtual Network Function placement and routing problem. Computers and Operations Research, 2021, 130, 105227.	2.4	5
75	MIP Modeling of Incremental Connected Facility Location. Lecture Notes in Computer Science, 2011, , 490-502.	1.0	5
76	Variable Neighborhood Search for Solving the Balanced Location Problem. Electronic Notes in Discrete Mathematics, 2012, 39, 21-28.	0.4	4
77	A Partition-Based Heuristic for the Steiner Tree Problem in Large Graphs. Lecture Notes in Computer Science, 2014, , 56-70.	1.0	4
78	Decomposition methods for the two-stage stochastic Steiner tree problem. Computational Optimization and Applications, 2018, 69, 713-752.	0.9	4
79	A polyhedral study of the diameter constrained minimum spanning tree problem. Discrete Applied Mathematics, 2020, 285, 364-379.	0.5	4
80	Casting Light on the Hidden Bilevel Combinatorial Structure of the Capacitated Vertex Separator Problem. Operations Research, 0, , .	1.2	4
81	Arc Routing with Electric Vehicles: Dynamic Charging and Speed-Dependent Energy Consumption. Transportation Science, 2022, 56, 1219-1237.	2.6	4
82	A nodeâ€based ILP formulation for the nodeâ€weighted dominating Steiner problem. Networks, 2017, 69, 33-51.	1.6	3
83	Solving minimum-cost shared arborescence problems. European Journal of Operational Research, 2017, 258, 887-901.	3.5	2
84	Exact approaches for the directed network design problem with relays. Omega, 2020, 91, 102005.	3.6	2
85	Preface: decomposition methods for hard optimization problems. Annals of Operations Research, 2020, 284, 483-485.	2.6	2
86	ILP and CP Formulations for the Lazy Bureaucrat Problem. Lecture Notes in Computer Science, 2015, , 255-270.	1.0	2
87	On the Hop Constrained Steiner Tree Problem with Multiple Root Nodes. Lecture Notes in Computer Science, 2012, , 201-212.	1.0	2
88	The Two Level Network Design Problem with Secondary Hop Constraints. Lecture Notes in Computer Science, 2011, , 71-76.	1.0	1
89	SOCP-Based Disjunctive Cuts forÂaÂClass ofÂInteger Nonlinear Bilevel Programs. Lecture Notes in Computer Science, 2022, , 262-276.	1.0	1
90	A Genetic Algorithm for the Uncapacitated Network Design Problem. , 2002, , 329-336.		0

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91	A Heuristic Algorithm for a Prize-Collecting Local Access Network Design Problem. Lecture Notes in Computer Science, 2011, , 139-144.	1.0	0
92	Budgeting in International Humanitarian Organizations. SSRN Electronic Journal, 0, , .	0.4	0