Stefan Irnich

List of Publications by Year
in descending order

65 papers	2,270 citations	257357 24 h-index	276775 41 g-index
66 all docs	66 docs citations	66 times ranked	1509 citing authors

#	Article	IF	Citations
1	A matheuristic for a 2-echelon vehicle routing problem with capacitated satellites and reverse flows. European Journal of Operational Research, 2023, 305, 64-84.	3.5	6
2	A note on the linearity of Ratliff and Rosenthal's algorithm for optimal picker routing. Operations Research Letters, 2022, 50, 155-159.	0.5	4
3	New neighborhoods and an iterated local search algorithm for the generalized traveling salesman problem. EURO Journal on Computational Optimization, 2022, 10, 100029.	1.5	4
4	A branch-and-cut algorithm for the soft-clustered vehicle-routing problem. Discrete Applied Mathematics, 2021, 288, 218-234.	0.5	9
5	A branch-price-and-cut algorithm for the capacitated multiple vehicle traveling purchaser problem with unitary demand. Discrete Applied Mathematics, 2021, 288, 152-170.	0.5	9
6	Hybridizing large neighborhood search and exact methods for generalized vehicle routing problems with time windows. EURO Journal on Transportation and Logistics, 2021, 10, 100040.	1.3	7
7	Branch-Price-and-Cut for the Soft-Clustered Capacitated Arc-Routing Problem. Transportation Science, 2021, 55, 687-705.	2.6	3
8	The last-mile vehicle routing problem with delivery options. OR Spectrum, 2021, 43, 877-904.	2.1	26
9	A Branch-and-Price Framework for Decomposing Graphs into Relaxed Cliques. INFORMS Journal on Computing, 2021, 33, 1070-1090.	1.0	2
10	Branch-cut-and-price for scheduling deliveries with time windows in a direct shipping network. Journal of Scheduling, 2020, 23, 363-377.	1.3	6
11	Exact solution of the soft-clustered vehicle-routing problem. European Journal of Operational Research, 2020, 280, 164-178.	3.5	20
12	Strategic Planning for Integrated Mobility-on-Demand and Urban Public Bus Networks. Transportation Science, 2020, 54, 1616-1639.	2.6	24
13	Routing electric vehicles with a single recharge per route. Networks, 2020, 76, 187-205.	1.6	11
14	Variable Fixing for Two-Arc Sequences in Branch-Price-and-Cut Algorithms on Path-Based Models. Transportation Science, 2020, 54, 1170-1188.	2.6	12
15	The Split Delivery Vehicle Routing Problem with Time Windows and Customer Inconvenience Constraints. Transportation Science, 2019, 53, 1067-1084.	2.6	21
16	Branch-and-Cut-and-Price for the Vehicle Routing Problem with Time Windows and Convex Node Costs. Transportation Science, 2019, 53, 1409-1426.	2.6	13
17	Nested branch-and-price-and-cut for vehicle routing problems with multiple resource interdependencies. European Journal of Operational Research, 2019, 276, 549-565.	3.5	8
18	Stabilized branch-price-and-cut for the commodity-constrained split delivery vehicle routing problem. European Journal of Operational Research, 2019, 278, 91-104.	3.5	19

#	Article	IF	Citations
19	Optimal booking control in revenue management with two substitutable resources. Mathematical Methods of Operations Research, 2019, 89, 189-222.	0.4	5
20	Branch-and-Cut for the Split Delivery Vehicle Routing Problem with Time Windows. Transportation Science, 2019, 53, 442-462.	2.6	26
21	Combined column-and-row-generation for the optimal communication spanning tree problem. Computers and Operations Research, 2018, 93, 113-122.	2.4	7
22	Large multiple neighborhood search for the clustered vehicle-routing problem. European Journal of Operational Research, 2018, 270, 118-131.	3.5	47
23	Maximum weight relaxed cliques and Russian Doll Search revisited. Discrete Applied Mathematics, 2018, 234, 131-138.	0.5	12
24	Branch-and-Price-and-Cut for the Active-Passive Vehicle-Routing Problem. Transportation Science, 2018, 52, 300-319.	2.6	32
25	Bidirectional labeling in column-generation algorithms for pickup-and-delivery problems. European Journal of Operational Research, 2018, 266, 521-530.	3.5	31
26	Schedule-Based Integrated Intercity Bus Line Planning via Branch-and-Cut. Transportation Science, 2018, 52, 882-897.	2.6	11
27	Branch-and-Price-and-Cut for the Truck-and-Trailer Routing Problem with Time Windows. Transportation Science, 2018, 52, 1174-1190.	2.6	33
28	Stabilized branch-and-price algorithms for vector packing problems. European Journal of Operational Research, 2018, 271, 401-419.	3.5	16
29	Dynamic Programming for the Minimum Tour Duration Problem. Transportation Science, 2017, 51, 549-565.	2.6	24
30	Asymmetry matters: Dynamic half-way points in bidirectional labeling for solving shortest path problems with resource constraints faster. European Journal of Operational Research, 2017, 261, 530-539.	3.5	46
31	Stabilized column generation for the temporal knapsack problem using dual-optimal inequalities. OR Spectrum, 2017, 39, 541-556.	2.1	10
32	An Exact Method for Vehicle Routing and Truck Driver Scheduling Problems. Transportation Science, 2017, 51, 737-754.	2.6	43
33	A new compact formulation for the discrete p-dispersion problem. European Journal of Operational Research, 2017, 256, 62-67.	3.5	36
34	Exact Algorithms for Electric Vehicle-Routing Problems with Time Windows. Operations Research, 2016, 64, 1388-1405.	1.2	304
35	Branch-and-price-and-cut for a service network design and hub location problem. European Journal of Operational Research, 2016, 255, 935-947.	3.5	36
36	Dual Inequalities for Stabilized Column Generation Revisited. INFORMS Journal on Computing, 2016, 28, 175-194.	1.0	29

#	ARTICLE	IF	CITATIONS
37	Branch-price-and-cut algorithms for the pickup and delivery problem with time windows and multiple stacks. European Journal of Operational Research, 2016, 250, 782-793.	3.5	37
38	Cut-First Branch-and-Price Second for the Capacitated Arc-Routing Problem. Operations Research Proceedings: Papers of the Annual Meeting = Vorträge Der Jahrestagung / DGOR, 2016, , 501-506.	0.1	0
39	In-Depth Analysis of Pricing Problem Relaxations for the Capacitated Arc-Routing Problem. Transportation Science, 2015, 49, 369-383.	2.6	15
40	Two-phase branch-and-cut for the mixed capacitated general routing problem. European Journal of Operational Research, 2015, 243, 17-29.	3.5	17
41	Chapter 9: The Capacitated Arc Routing Problem: Exact Algorithms. , 2015, , 183-221.		6
42	Effective Handling of Dynamic Time Windows and Its Application to Solving the Dial-a-Ride Problem. Transportation Science, 2015, 49, 335-354.	2.6	51
43	Chapter 1: The Family of Vehicle Routing Problems. , 2014, , 1-33.		46
44	Chapter 9: Four Variants of the Vehicle Routing Problem. , 2014, , 241-271.		29
45	Formulations for an inventory routing problem. International Transactions in Operational Research, 2014, 21, 353-374.	1.8	66
46	Solving elementary shortest-path problems as mixed-integer programs. OR Spectrum, 2014, 36, 281-296.	2.1	15
47	The shortest-path problem with resource constraints with -loop elimination and its application to the capacitated arc-routing problem. European Journal of Operational Research, 2014, 238, 415-426.	3.5	21
48	Cut-First Branch-and-Price-Second for the Capacitated Arc-Routing Problem. Operations Research, 2012, 60, 1167-1182.	1.2	50
49	A note on symmetry reduction for circular traveling tournament problems. European Journal of Operational Research, 2011, 210, 452-456.	3.5	7
50	A new branch-and-price algorithm for the traveling tournament problem. European Journal of Operational Research, 2010, 204, 218-228.	3.5	24
51	Path-Reduced Costs for Eliminating Arcs in Routing and Scheduling. INFORMS Journal on Computing, 2010, 22, 297-313.	1.0	47
52	Undirected postman problems with zigzagging option: A cutting-plane approach. Computers and Operations Research, 2008, 35, 3998-4009.	2.4	5
53	Solution of real-world postman problems. European Journal of Operational Research, 2008, 190, 52-67.	3.5	43
54	Vehicle Routing Problems with Inter-Tour Resource Constraints. Operations Research/ Computer Science Interfaces Series, 2008, , 421-444.	0.3	15

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55	A Unified Modeling and Solution Framework for Vehicle Routing and Local Search-Based Metaheuristics. INFORMS Journal on Computing, 2008, 20, 270-287.	1.0	50
56	Resource extension functions: properties, inversion, and generalization to segments. OR Spectrum, 2007, 30, 113-148.	2.1	86
57	The Shortest-Path Problem with Resource Constraints and$k$-Cycle Elimination for$k≥$ 3. INFORMS Journal on Computing, 2006, 18, 391-406.	1.0	148
58	Sequential search and its application to vehicle-routing problems. Computers and Operations Research, 2006, 33, 2405-2429.	2.4	72
59	A Note on Postman Problems with Zigzag Service. Infor, 2005, 43, 33-39.	0.5	9
60	A Note on Single Alternating Cycle Neighborhoods for the TSP. Journal of Heuristics, 2005, 11, 135-146.	1.1	10
61	Local Search for Vehicle Routing and Scheduling Problems: Review and Conceptual Integration. Journal of Heuristics, 2005, 11, 267-306.	1.1	86
62	Shortest Path Problems with Resource Constraints. , 2005, , 33-65.		279
63	Finding all k-cliques in k-partite graphs, an application in textile engineering. Computers and Operations Research, 2002, 29, 13-31.	2.4	26
64	A multi-depot pickup and delivery problem with a single hub and heterogeneous vehicles. European Journal of Operational Research, 2000, 122, 310-328.	3.5	51
65	Bin packing with lexicographic objectives for loading weight- and volume-constrained trucks in a direct-shipping system. OR Spectrum, 0, , 1.	2.1	4