## Valentina Cacchiani

List of Publications by Year in descending order

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VALENTINA CACCHIANI

#	Article	IF	CITATIONS
1	A matheuristic algorithm for the pollution and energy minimization traveling salesman problems. International Transactions in Operational Research, 2023, 30, 655-687.	2.7	4
2	An iterative heuristic for passenger-centric train timetabling with integrated adaption times. Computers and Operations Research, 2022, 142, 105740.	4.0	5
3	Knapsack problems — An overview of recent advances. Part I: Single knapsack problems. Computers and Operations Research, 2022, 143, 105692.	4.0	18
4	Scalable Multi-objective Optimization of Reliable Latency-constrained Optical Transport Networks. , 2021, , .		0
5	An Integer Linear Programming model for integrated train stop planning and timetabling with time-dependent passenger demand. Computers and Operations Research, 2021, 136, 105484.	4.0	17
6	Heuristic approaches for flight retiming in an integrated airline scheduling problem of a regional carrier. Omega, 2020, 91, 102028.	5.9	32
7	Models and algorithms for the Traveling Salesman Problem with Time-dependent Service times. European Journal of Operational Research, 2020, 283, 825-843.	5.7	18
8	Unmanned Aerial Base Stations for NB-IoT: Trajectory Design and Performance Analysis. , 2020, , .		6
9	Robust optimization models for integrated train stop planning and timetabling with passenger demand uncertainty. Transportation Research Part B: Methodological, 2020, 136, 1-29.	5.9	62
10	A Branch-and-Cut-and-Price algorithm for the Multi-trip Separate Pickup and Delivery Problem with Time Windows at Customers and Facilities. European Journal of Operational Research, 2019, 279, 824-839.	5.7	25
11	Energy-Efficient Train Control. AIRO Springer Series, 2019, , 57-68.	0.6	0
12	Robust Train Timetabling. Profiles in Operations Research, 2018, , 93-115.	0.4	8
13	Robust Train Timetabling and Stop Planning with Uncertain Passenger Demand. Electronic Notes in Discrete Mathematics, 2018, 69, 213-220.	0.4	19
14	A study on the optimal aircraft location for human organ transportation activities. Transportation Research Procedia, 2018, 30, 314-323.	1.5	5
15	Path Optimization for Unmanned Aerial Base Stations with Limited Radio Resources. , 2018, , .		4
16	An Iterated Local Search Algorithm for the Pollution Traveling Salesman Problem. AIRO Springer Series, 2018, , 83-91.	0.6	4
17	Optimal Solutions to a Real-World Integrated Airline Scheduling Problem. Transportation Science, 2017, 51, 250-268.	4.4	43
18	A Branch-and-Bound Algorithm for the Knapsack Problem with Conflict Graph. INFORMS Journal on Computing, 2017, 29, 457-473.	1.7	40

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19	Train timetabling by skip-stop planning in highly congested lines. Transportation Research Part B: Methodological, 2017, 104, 149-174.	5.9	87
20	A branch-and-bound based heuristic algorithm for convex multi-objective MINLPs. European Journal of Operational Research, 2017, 260, 920-933.	5.7	15
21	Timetable Optimization for High-Speed Trains at Chinese Railways. Electronic Notes in Discrete Mathematics, 2016, 55, 29-32.	0.4	3
22	Single-commodity robust network design with finite and Hose demand sets. Mathematical Programming, 2016, 157, 297-342.	2.4	18
23	Approaches to a real-world Train Timetabling Problem in a railway node. Omega, 2016, 58, 97-110.	5.9	68
24	A Railway Timetable Rescheduling Approach for Handling Large-Scale Disruptions. Transportation Science, 2016, 50, 841-862.	4.4	134
25	A three-level framework for performance-based railway timetabling. Transportation Research Part C: Emerging Technologies, 2016, 67, 62-83.	7.6	85
26	An overview of curriculum-based course timetabling. Top, 2015, 23, 313-349.	1.6	51
27	Rejoinder on: an overview of curriculum-based course timetabling. Top, 2015, 23, 366-368.	1.6	Ο
28	A tutorial on non-periodic train timetabling and platforming problems. EURO Journal on Transportation and Logistics, 2015, 4, 285-320.	2.2	46
29	The table placement problem: a research challenge at the EWI 2007. Top, 2014, 22, 208-226.	1.6	1
30	Single-commodity robust network design problem: Complexity, instances and heuristic solutions. European Journal of Operational Research, 2014, 238, 711-723.	5.7	8
31	An overview of recovery models and algorithms for real-time railway rescheduling. Transportation Research Part B: Methodological, 2014, 63, 15-37.	5.9	488
32	A set-covering based heuristic algorithm for the periodic vehicle routing problem. Discrete Applied Mathematics, 2014, 163, 53-64.	0.9	74
33	A heuristic approach for an integrated fleet-assignment, aircraft-routing and crew-pairing problem. Electronic Notes in Discrete Mathematics, 2013, 41, 391-398.	0.4	12
34	A Lagrangian heuristic for a train-unit assignment problem. Discrete Applied Mathematics, 2013, 161, 1707-1718.	0.9	36
35	Finding cliques of maximum weight on a generalization of permutation graphs. Optimization Letters, 2013, 7, 289-296.	1.6	4
36	On integer polytopes with few nonzero vertices. Operations Research Letters, 2013, 41, 74-77.	0.7	9

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#	Article	IF	CITATIONS
37	A hybrid approach to beam angle optimization in intensity-modulated radiation therapy. Computers and Operations Research, 2013, 40, 2187-2197.	4.0	46
38	A new lower bound for curriculum-based course timetabling. Computers and Operations Research, 2013, 40, 2466-2477.	4.0	32
39	A Lagrangian Heuristic for Robustness, with an Application to Train Timetabling. Transportation Science, 2012, 46, 124-133.	4.4	82
40	Railway Rolling Stock Planning: Robustness Against Large Disruptions. Transportation Science, 2012, 46, 217-232.	4.4	71
41	Nominal and robust train timetabling problems. European Journal of Operational Research, 2012, 219, 727-737.	5.7	304
42	Models and Algorithms for Robust Network Design with Several Traffic Scenarios. Lecture Notes in Computer Science, 2012, , 261-272.	1.3	5
43	Models and Algorithms for the Train Unit Assignment Problem. Lecture Notes in Computer Science, 2012, , 24-35.	1.3	7
44	A multistart heuristic for the equality generalized traveling salesman problem. Networks, 2011, 57, 231-239.	2.7	10
45	Solving a real-world train-unit assignment problem. Mathematical Programming, 2010, 124, 207-231.	2.4	71
46	Non-cyclic train timetabling and comparability graphs. Operations Research Letters, 2010, 38, 179-184.	0.7	48
47	Scheduling extra freight trains on railway networks. Transportation Research Part B: Methodological, 2010, 44, 215-231.	5.9	171
48	Models and algorithms for combinatorial optimization problems arising in railway applications. 4or, 2009, 7, 109-112.	1.6	14
49	A column generation approach to train timetabling on a corridor. 4or, 2008, 6, 125-142.	1.6	116
50	A Railway Timetable Rescheduling Approach for Handling Large Scale Disruptions. SSRN Electronic Journal, 0, , .	0.4	6
51	An Effective Peak Period Heuristic for Railway Rolling Stock Planning. Transportation Science, 0, , .	4.4	2
52	An Iterative Heuristic for Passenger-Centric Train Timetabling with Integrated Adaption Times. SSRN Electronic Journal, 0, , .	0.4	2