

# Valentina Cacchiani

## List of Publications by Year in descending order

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Version: 2024-02-01

52  
papers

2,436  
citations

318942

23  
h-index

274796

44  
g-index

54  
all docs

54  
docs citations

54  
times ranked

1569  
citing authors

#	ARTICLE	IF	CITATIONS
1	A matheuristic algorithm for the pollution and energy minimization traveling salesman problems. <i>International Transactions in Operational Research</i> , 2023, 30, 655-687.	1.8	4
2	An iterative heuristic for passenger-centric train timetabling with integrated adaption times. <i>Computers and Operations Research</i> , 2022, 142, 105740.	2.4	5
3	Knapsack problems " An overview of recent advances. Part I: Single knapsack problems. <i>Computers and Operations Research</i> , 2022, 143, 105692.	2.4	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. <i>Computers and Operations Research</i> , 2021, 136, 105484.	2.4	17
6	Heuristic approaches for flight retiming in an integrated airline scheduling problem of a regional carrier. <i>Omega</i> , 2020, 91, 102028.	3.6	32
7	Models and algorithms for the Traveling Salesman Problem with Time-dependent Service times. <i>European Journal of Operational Research</i> , 2020, 283, 825-843.	3.5	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. <i>Transportation Research Part B: Methodological</i> , 2020, 136, 1-29.	2.8	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. <i>European Journal of Operational Research</i> , 2019, 279, 824-839.	3.5	25
11	Energy-Efficient Train Control. <i>AIRO Springer Series</i> , 2019, , 57-68.	0.4	0
12	Robust Train Timetabling. <i>Profiles in Operations Research</i> , 2018, , 93-115.	0.3	8
13	Robust Train Timetabling and Stop Planning with Uncertain Passenger Demand. <i>Electronic Notes in Discrete Mathematics</i> , 2018, 69, 213-220.	0.4	19
14	A study on the optimal aircraft location for human organ transportation activities. <i>Transportation Research Procedia</i> , 2018, 30, 314-323.	0.8	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. <i>AIRO Springer Series</i> , 2018, , 83-91.	0.4	4
17	Optimal Solutions to a Real-World Integrated Airline Scheduling Problem. <i>Transportation Science</i> , 2017, 51, 250-268.	2.6	43
18	A Branch-and-Bound Algorithm for the Knapsack Problem with Conflict Graph. <i>INFORMS Journal on Computing</i> , 2017, 29, 457-473.	1.0	40

#	ARTICLE	IF	CITATIONS
19	Train timetabling by skip-stop planning in highly congested lines. <i>Transportation Research Part B: Methodological</i> , 2017, 104, 149-174.	2.8	87
20	A branch-and-bound based heuristic algorithm for convex multi-objective MINLPs. <i>European Journal of Operational Research</i> , 2017, 260, 920-933.	3.5	15
21	Timetable Optimization for High-Speed Trains at Chinese Railways. <i>Electronic Notes in Discrete Mathematics</i> , 2016, 55, 29-32.	0.4	3
22	Single-commodity robust network design with finite and Hose demand sets. <i>Mathematical Programming</i> , 2016, 157, 297-342.	1.6	18
23	Approaches to a real-world Train Timetabling Problem in a railway node. <i>Omega</i> , 2016, 58, 97-110.	3.6	68
24	A Railway Timetable Rescheduling Approach for Handling Large-Scale Disruptions. <i>Transportation Science</i> , 2016, 50, 841-862.	2.6	134
25	A three-level framework for performance-based railway timetabling. <i>Transportation Research Part C: Emerging Technologies</i> , 2016, 67, 62-83.	3.9	85
26	An overview of curriculum-based course timetabling. <i>Top</i> , 2015, 23, 313-349.	1.1	51
27	Rejoinder on: an overview of curriculum-based course timetabling. <i>Top</i> , 2015, 23, 366-368.	1.1	0
28	A tutorial on non-periodic train timetabling and platforming problems. <i>EURO Journal on Transportation and Logistics</i> , 2015, 4, 285-320.	1.3	46
29	The table placement problem: a research challenge at the EWI 2007. <i>Top</i> , 2014, 22, 208-226.	1.1	1
30	Single-commodity robust network design problem: Complexity, instances and heuristic solutions. <i>European Journal of Operational Research</i> , 2014, 238, 711-723.	3.5	8
31	An overview of recovery models and algorithms for real-time railway rescheduling. <i>Transportation Research Part B: Methodological</i> , 2014, 63, 15-37.	2.8	488
32	A set-covering based heuristic algorithm for the periodic vehicle routing problem. <i>Discrete Applied Mathematics</i> , 2014, 163, 53-64.	0.5	74
33	A heuristic approach for an integrated fleet-assignment, aircraft-routing and crew-pairing problem. <i>Electronic Notes in Discrete Mathematics</i> , 2013, 41, 391-398.	0.4	12
34	A Lagrangian heuristic for a train-unit assignment problem. <i>Discrete Applied Mathematics</i> , 2013, 161, 1707-1718.	0.5	36
35	Finding cliques of maximum weight on a generalization of permutation graphs. <i>Optimization Letters</i> , 2013, 7, 289-296.	0.9	4
36	On integer polytopes with few nonzero vertices. <i>Operations Research Letters</i> , 2013, 41, 74-77.	0.5	9

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37	A hybrid approach to beam angle optimization in intensity-modulated radiation therapy. <i>Computers and Operations Research</i> , 2013, 40, 2187-2197.	2.4	46
38	A new lower bound for curriculum-based course timetabling. <i>Computers and Operations Research</i> , 2013, 40, 2466-2477.	2.4	32
39	A Lagrangian Heuristic for Robustness, with an Application to Train Timetabling. <i>Transportation Science</i> , 2012, 46, 124-133.	2.6	82
40	Railway Rolling Stock Planning: Robustness Against Large Disruptions. <i>Transportation Science</i> , 2012, 46, 217-232.	2.6	71
41	Nominal and robust train timetabling problems. <i>European Journal of Operational Research</i> , 2012, 219, 727-737.	3.5	304
42	Models and Algorithms for Robust Network Design with Several Traffic Scenarios. <i>Lecture Notes in Computer Science</i> , 2012, , 261-272.	1.0	5
43	Models and Algorithms for the Train Unit Assignment Problem. <i>Lecture Notes in Computer Science</i> , 2012, , 24-35.	1.0	7
44	A multistart heuristic for the equality generalized traveling salesman problem. <i>Networks</i> , 2011, 57, 231-239.	1.6	10
45	Solving a real-world train-unit assignment problem. <i>Mathematical Programming</i> , 2010, 124, 207-231.	1.6	71
46	Non-cyclic train timetabling and comparability graphs. <i>Operations Research Letters</i> , 2010, 38, 179-184.	0.5	48
47	Scheduling extra freight trains on railway networks. <i>Transportation Research Part B: Methodological</i> , 2010, 44, 215-231.	2.8	171
48	Models and algorithms for combinatorial optimization problems arising in railway applications. <i>4or</i> , 2009, 7, 109-112.	1.0	14
49	A column generation approach to train timetabling on a corridor. <i>4or</i> , 2008, 6, 125-142.	1.0	116
50	A Railway Timetable Rescheduling Approach for Handling Large Scale Disruptions. <i>SSRN Electronic Journal</i> , 0, , .	0.4	6
51	An Effective Peak Period Heuristic for Railway Rolling Stock Planning. <i>Transportation Science</i> , 0, , .	2.6	2
52	An Iterative Heuristic for Passenger-Centric Train Timetabling with Integrated Adaption Times. <i>SSRN Electronic Journal</i> , 0, , .	0.4	2