Paolo Toth

List of Publications by Year
in descending order

65 papers	**6,625** citations	100601 **38** h-index	145109 **60** g-index
70 all docs	**70** docs citations	**70** times ranked	**3969** citing authors

#	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.	1.8	4
2	A Partial Allocation Local Search Matheuristic for Solving the School Bus Routing Problem with Bus Stop Selection. Mathematics, 2020, 8, 1214.	1.1	4
3	Robust Train Timetabling. Profiles in Operations Research, 2018, , 93-115.	0.3	8
4	An Iterated Local Search Algorithm for the Pollution Traveling Salesman Problem. AIRO Springer Series, 2018, , 83-91.	0.4	4
5	Train timetabling by skip-stop planning in highly congested lines. Transportation Research Part B: Methodological, 2017, 104, 149-174.	2.8	87
6	Timetable Optimization for High-Speed Trains at Chinese Railways. Electronic Notes in Discrete Mathematics, 2016, 55, 29-32.	0.4	3
7	The Time Dependent Traveling Salesman Planning Problem in Controlled Airspace. Transportation Research Part B: Methodological, 2016, 90, 38-55.	2.8	23
8	A Railway Timetable Rescheduling Approach for Handling Large-Scale Disruptions. Transportation Science, 2016, 50, 841-862.	2.6	134
9	A metaheuristic framework for Nonlinear Capacitated Covering Problems. Optimization Letters, 2016, 10, 169-180.	0.9	2
10	A three-level framework for performance-based railway timetabling. Transportation Research Part C: Emerging Technologies, 2016, 67, 62-83.	3.9	85
11	Improved rolling horizon approaches to the aircraft sequencing problem. Journal of Scheduling, 2015, 18, 435-447.	1.3	55
12	An overview of curriculum-based course timetabling. Top, 2015, 23, 313-349.	1.1	51
13	Rejoinder on: an overview of curriculum-based course timetabling. Top, 2015, 23, 366-368.	1.1	0
14	A tutorial on non-periodic train timetabling and platforming problems. EURO Journal on Transportation and Logistics, 2015, 4, 285-320.	1.3	46
15	Optimizing the Design of Water Distribution Networks Using Mathematical Optimization. Profiles in Operations Research, 2015, , 183-198.	0.3	1
16	Approaches to real world two-dimensional cutting problems. Omega, 2014, 47, 99-115.	3.6	31
17	A hybrid Granular Tabu Search algorithm for the Multi-Depot Vehicle Routing Problem. Journal of Heuristics, 2014, 20, 483-509.	1.1	100
18	An overview of recovery models and algorithms for real-time railway rescheduling. Transportation Research Part B: Methodological, 2014, 63, 15-37.	2.8	488

#	ARTICLE	IF	CITATIONS
19	State Space Reduced Dynamic Programming for the Aircraft Sequencing Problem with Constrained Position Shifting. Lecture Notes in Computer Science, 2014, , 267-279.	1.0	3
20	A note on the Bertsimas & Sim algorithm for robust combinatorial optimization problems. 4or, 2013, 11, 349-360.	1.0	28
21	Exact approaches for solving robust prize-collecting Steiner tree problems. European Journal of Operational Research, 2013, 229, 599-612.	3.5	11
22	A Lagrangian heuristic for a train-unit assignment problem. Discrete Applied Mathematics, 2013, 161, 1707-1718.	0.5	36
23	Finding cliques of maximum weight on a generalization of permutation graphs. Optimization Letters, 2013, 7, 289-296.	0.9	4
24	On integer polytopes with few nonzero vertices. Operations Research Letters, 2013, 41, 74-77.	0.5	9
25	A two-phase hybrid heuristic algorithm for the capacitated location-routing problem. Computers and Operations Research, 2013, 40, 70-79.	2.4	125
26	On the optimal design of water distribution networks: a practical MINLP approach. Optimization and Engineering, 2012, 13, 219-246.	1.3	162
27	An Integer Linear Programming based heuristic for the Capacitated m-Ring-Star Problem. European Journal of Operational Research, 2012, 217, 17-25.	3.5	27
28	Nominal and robust train timetabling problems. European Journal of Operational Research, 2012, 219, 727-737.	3.5	304
29	Aircraft Sequencing Problems via a Rolling Horizon Algorithm. Lecture Notes in Computer Science, 2012, , 273-284.	1.0	14
30	Models and Algorithms for the Train Unit Assignment Problem. Lecture Notes in Computer Science, 2012, , 24-35.	1.0	7
31	An exact approach for the Vertex Coloring Problem. Discrete Optimization, 2011, 8, 174-190.	0.6	87
32	Solving a real-world train-unit assignment problem. Mathematical Programming, 2010, 124, 207-231.	1.6	71
33	Exact algorithms for routing problems under vehicle capacity constraints. Annals of Operations Research, 2010, 175, 213-245.	2.6	120
34	Comments on: Routing problems with loading constraints. Top, 2010, 18, 39-40.	1.1	0
35	Non-cyclic train timetabling and comparability graphs. Operations Research Letters, 2010, 38, 179-184.	0.5	48
36	An ILP improvement procedure for the Open Vehicle Routing Problem. Computers and Operations Research, 2010, 37, 2106-2120.	2.4	74

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37	An electromagnetism metaheuristic for the unicost set covering problem. European Journal of Operational Research, 2010, 205, 290-300.	3.5	68
38	A heuristic procedure for the Capacitated m-Ring-Star problem. European Journal of Operational Research, 2010, 207, 1227-1234.	3.5	32
39	A Variable Neighborhood Search and its Application to a Ring Star Problem Generalization. Electronic Notes in Discrete Mathematics, 2010, 36, 343-350.	0.4	3
40	A survey on vertex coloring problems. International Transactions in Operational Research, 2010, 17, 1-34.	1.8	169
41	Algorithms for the Bin Packing Problem with Conflicts. INFORMS Journal on Computing, 2010, 22, 401-415.	1.0	84
42	Scheduling extra freight trains on railway networks. Transportation Research Part B: Methodological, 2010, 44, 215-231.	2.8	171
43	Models and heuristic algorithms for a weighted vertex coloring problem. Journal of Heuristics, 2009, 15, 503-526.	1.1	29
44	A column generation approach to train timetabling on a corridor. 4or, 2008, 6, 125-142.	1.0	116
45	A Metaheuristic Approach for the Vertex Coloring Problem. INFORMS Journal on Computing, 2008, 20, 302-316.	1.0	100
46	Chapter 3 Passenger Railway Optimization. Handbooks in Operations Research and Management Science, 2007, , 129-187.	0.6	111
47	Recent advances in vehicle routing exact algorithms. 4or, 2007, 5, 269-298.	1.0	71
48	An MINLP Solution Method for a Water Network Problem. Lecture Notes in Computer Science, 2006, , 696-707.	1.0	18
49	A Lagrangian heuristic algorithm for a real-world train timetabling problem. Discrete Applied Mathematics, 2006, 154, 738-753.	0.5	174
50	A new ILP-based refinement heuristic for Vehicle Routing Problems. Mathematical Programming, 2006, 105, 471-499.	1.6	92
51	A Set-Covering-Based Heuristic Approach for Bin-Packing Problems. INFORMS Journal on Computing, 2006, 18, 71-85.	1.0	77
52	The Granular Tabu Search and Its Application to the Vehicle-Routing Problem. INFORMS Journal on Computing, 2003, 15, 333-346.	1.0	404
53	Modeling and Solving the Train Timetabling Problem. Operations Research, 2002, 50, 851-861.	1.2	426
54	Algorithms for the Set Covering Problem. Annals of Operations Research, 2000, 98, 353-371.	2.6	296

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55	A Heuristic Method for the Set Covering Problem. Operations Research, 1999, 47, 730-743.	1.2	347
56	A Survey of Optimization Models for Train Routing and Scheduling. Transportation Science, 1998, 32, 380-404.	2.6	625
57	A Branch-and-Cut Algorithm for the Symmetric Generalized Traveling Salesman Problem. Operations Research, 1997, 45, 378-394.	1.2	385
58	A Polyhedral Approach to the Asymmetric Traveling Salesman Problem. Management Science, 1997, 43, 1520-1536.	2.4	77
59	Algorithms for railway crew management. Mathematical Programming, 1997, 79, 125-141.	1.6	140
60	A Branch-and-Bound Algorithm for the Capacitated Vehicle Routing Problem on Directed Graphs. Operations Research, 1994, 42, 846-859.	1.2	108
61	An Additive Bounding Procedure for Combinatorial Optimization Problems. Operations Research, 1989, 37, 319-328.	1.2	101
62	Algorithms and codes for the assignment problem. Annals of Operations Research, 1988, 13, 191-223.	2.6	112
63	A Railway Timetable Rescheduling Approach for Handling Large Scale Disruptions. SSRN Electronic Journal, 0, , .	0.4	6
64	An Effective Peak Period Heuristic for Railway Rolling Stock Planning. Transportation Science, 0, , .	2.6	2
65	The school bus routing problem with student choice: a bilevel approach and a simple and effective metaheuristic. International Transactions in Operational Research, 0, , .	1.8	5