Manuel Iori

List of Publications by Year
in descending order

102 papers	3,856 citations	147786 31 h-index	133244 59 g-index
104 all docs	104 docs citations	104 times ranked	2081 citing authors

#	Article	IF	Citations
1	An Exact Approach for the Vehicle Routing Problem with Two-Dimensional Loading Constraints. Transportation Science, 2007, 41, 253-264.	4.4	265
2	The bike sharing rebalancing problem: Mathematical formulations and benchmark instances. Omega, 2014, 45, 7-19.	5.9	259
3	A Tabu Search Algorithm for a Routing and Container Loading Problem. Transportation Science, 2006, 40, 342-350.	4.4	243
4	Bin packing and cutting stock problems: Mathematical models and exact algorithms. European Journal of Operational Research, 2016, 255, 1-20.	5.7	241
5	Ant colony optimization for the two-dimensional loading vehicle routing problem. Computers and Operations Research, 2009, 36, 655-673.	4.0	190
6	Routing problems with loading constraints. Top, 2010, 18, 4-27.	1.6	183
7	A Tabu search heuristic for the vehicle routing problem with twoâ€dimensional loading constraints. Networks, 2008, 51, 4-18.	2.7	167
8	Metaheuristics for vehicle routing problems with three-dimensional loading constraints. European Journal of Operational Research, 2010, 201, 751-759.	5.7	141
9	A destroy and repair algorithm for the Bike sharing Rebalancing Problem. Computers and Operations Research, 2016, 71, 149-162.	4.0	118
10	A heuristic algorithm for a single vehicle static bike sharing rebalancing problem. Computers and Operations Research, 2017, 79, 19-33.	4.0	117
11	The Bike sharing Rebalancing Problem with Stochastic Demands. Transportation Research Part B: Methodological, 2018, 118, 362-380.	5.9	95
12	Algorithms for the Bin Packing Problem with Conflicts. INFORMS Journal on Computing, 2010, 22, 401-415.	1.7	84
13	Combinatorial Benders' Cuts for the Strip Packing Problem. Operations Research, 2014, 62, 643-661.	1.9	76
14	A branchâ€andâ€cut algorithm for the pickup and delivery traveling salesman problem with LIFO loading. Networks, 2010, 55, 46-59.	2.7	69
15	Metaheuristics for the vehicle routing problem with loading constraints. Networks, 2007, 49, 294-307.	2.7	57
16	Exact solution techniques for two-dimensional cutting and packing. European Journal of Operational Research, 2021, 289, 399-415.	5.7	56
17	Chapter 6: Pickup-and-Delivery Problems for Goods Transportation. , 2014, , 161-191.		53
18	Heuristic and Exact Algorithms for the Identical Parallel Machine Scheduling Problem. INFORMS Journal on Computing, 2008, 20, 333-344.	1.7	52

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19	Minimizing CO2 emissions in a practical daily carpooling problem. Computers and Operations Research, 2017, 81, 40-50.	4.0	51
20	An analysis of drivers route choice behaviour using GPS data and optimal alternatives. Journal of Transport Geography, 2016, 51, 119-129.	5.0	45
21	Logic based Benders' decomposition for orthogonal stock cutting problems. Computers and Operations Research, 2017, 78, 290-298.	4.0	43
22	Enhanced Pseudo-polynomial Formulations for Bin Packing and Cutting Stock Problems. INFORMS Journal on Computing, 2020, 32, 101-119.	1.7	41
23	Heuristic and exact algorithms for the multi-pile vehicle routing problem. OR Spectrum, 2011, 33, 931-959.	3.4	40
24	Mathematical models for multicontainer loading problems. Omega, 2017, 66, 106-117.	5.9	40
25	BPPLIB: a library for bin packing and cutting stock problems. Optimization Letters, 2018, 12, 235-250.	1.6	40
26	The Meet-in-the-Middle Principle for Cutting and Packing Problems. INFORMS Journal on Computing, 2018, 30, 646-661.	1.7	40
27	Mathematical models and decomposition methods for the multiple knapsack problem. European Journal of Operational Research, 2019, 274, 886-899.	5.7	37
28	The Static Bike Sharing Rebalancing Problem with Forbidden Temporary Operations. Transportation Science, 2019, 53, 882-896.	4.4	36
29	A Branch-and-Cut Algorithm for the Double Traveling Salesman Problem with Multiple Stacks. INFORMS Journal on Computing, 2013, 25, 41-55.	1.7	35
30	A hybrid genetic algorithm for the two-dimensional single large object placement problem. European Journal of Operational Research, 2007, 183, 1150-1166.	5.7	34
31	Heuristic and Exact Algorithms for the Interval Min–Max Regret Knapsack Problem. INFORMS Journal on Computing, 2015, 27, 392-405.	1.7	34
32	Metaheuristic Algorithms for the Strip Packing Problem. Applied Optimization, 2003, , 159-179.	0.4	34
33	A rolling horizon algorithm for auto-carrier transportation. Transportation Research Part B: Methodological, 2015, 76, 68-80.	5.9	33
34	Exact algorithms for the double vehicle routing problem with multiple stacks. Computers and Operations Research, 2015, 63, 83-101.	4.0	32
35	The Bin Packing Problem with Precedence Constraints. Operations Research, 2012, 60, 1491-1504.	1.9	31
36	A branch-and-price algorithm for the temporal bin packing problem. Computers and Operations Research, 2020, 114, 104825.	4.0	31

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37	Rich vehicle routing with auxiliary depots and anticipated deliveries: An application to pharmaceutical distribution. Transportation Research, Part E: Logistics and Transportation Review, 2019, 129, 162-174.	7.4	29
38	The single-finger keyboard layout problem. Computers and Operations Research, 2009, 36, 3002-3012.	4.0	28
39	An annotated bibliography of combined routing and loading problems. Yugoslav Journal of Operations Research, 2013, 23, 311-326.	0.8	28
40	Branch-and-cut for the pickup and delivery traveling salesman problem with FIFO loading. Computers and Operations Research, 2010, 37, 970-980.	4.0	27
41	Friendly bin packing instances without Integer Round-up Property. Mathematical Programming, 2015, 150, 5-17.	2.4	27
42	Novel formulations and modeling enhancements for the dynamic berth allocation problem. European Journal of Operational Research, 2019, 278, 170-185.	5.7	27
43	Non-Elementary Formulations for Single Vehicle Routing Problems with Pickups and Deliveries. Operations Research, 2017, 65, 1597-1614.	1.9	26
44	A practical time slot management and routing problem for attended home services. Omega, 2018, 81, 208-219.	5.9	26
45	Enhanced arc-flow formulations to minimize weighted completion time on identical parallel machines. European Journal of Operational Research, 2019, 275, 67-79.	5.7	26
46	Knapsack problems â€" An overview of recent advances. Part II: Multiple, multidimensional, and quadratic knapsack problems. Computers and Operations Research, 2022, 143, 105693.	4.0	26
47	Shortest paths in piecewise continuous time-dependent networks. Operations Research Letters, 2008, 36, 688-691.	0.7	25
48	Optimization of a Real-World Auto-Carrier Transportation Problem. Transportation Science, 2015, 49, 402-419.	4.4	25
49	Metaheuristic algorithms for combinatorial optimization problems. 4or, 2005, 3, 163-166.	1.6	21
50	An aggregate label setting policy for the multi-objective shortest path problem. European Journal of Operational Research, 2010, 207, 1489-1496.	5.7	21
51	Personnel scheduling during Covid-19 pandemic. Optimization Letters, 2021, 15, 1385-1396.	1.6	21
52	An Adaptive Iterated Local Search for the Mixed Capacitated General Routing Problem. Transportation Science, 2016, 50, 1223-1238.	4.4	19
53	Mathematical formulations for scheduling jobs on identical parallel machines with family setup times and total weighted completion time minimization. European Journal of Operational Research, 2021, 289, 825-840.	5.7	18
54	Arc flow formulations based on dynamic programming: Theoretical foundations and applications. European Journal of Operational Research, 2022, 296, 3-21.	5.7	18

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55	Knapsack problems â€" An overview of recent advances. Part I: Single knapsack problems. Computers and Operations Research, 2022, 143, 105692.	4.0	18
56	Heuristic Algorithms and Scatter Search for the Cardinality Constrained Pâ",CmaxProblem. Journal of Heuristics, 2004, 10, 169-204.	1.4	17
57	Two-Phase Earthwork Optimization Model for Highway Construction. Journal of Construction Engineering and Management - ASCE, 2015, 141, .	3.8	16
58	Exact and heuristic algorithms for the interval min-max regret generalized assignment problem. Computers and Industrial Engineering, 2018, 125, 98-110.	6.3	14
59	Lower bounds and heuristic algorithms for the k_i-partitioning problem. European Journal of Operational Research, 2006, 171, 725-742.	5.7	13
60	A batching-move iterated local search algorithm for the bin packing problem with generalized precedence constraints. International Journal of Production Research, 2017, 55, 6288-6304.	7.5	13
61	Combinatorial Benders Decomposition for the Two-Dimensional Bin Packing Problem. INFORMS Journal on Computing, 2021, 33, 963-978.	1.7	13
62	Solution methods for scheduling problems with sequence-dependent deterioration and maintenance events. European Journal of Operational Research, 2021, 295, 823-837.	5.7	13
63	Lower and upper bounds for the Bin Packing Problem with Fragile Objects. Discrete Applied Mathematics, 2014, 163, 73-86.	0.9	10
64	Scheduling jobs with release dates on identical parallel machines by minimizing the total weighted completion time. Computers and Operations Research, 2020, 123, 105018.	4.0	10
65	Mathematical models and heuristic methods for the assembly line balancing problem with hierarchical worker assignment. International Journal of Production Research, 2022, 60, 2193-2211.	7.5	9
66	Exact algorithms for the bin packing problem with fragile objects. Discrete Optimization, 2013, 10, 210-223.	0.9	8
67	Mathematical models and decomposition algorithms for makespan minimization in plastic rolls production. Journal of the Operational Research Society, 2018, 69, 326-339.	3.4	8
68	2DPackLib: a two-dimensional cutting and packing library. Optimization Letters, 2022, 16, 471-480.	1.6	8
69	Exact solution of network flow models with strong relaxations. Mathematical Programming, 2023, 197, 813-846.	2.4	7
70	Training software for orthogonal packing problems. Computers and Industrial Engineering, 2017, 111, 139-147.	6.3	6
71	Mathematical Models and Search Algorithms for the Capacitated p-Center Problem. INFORMS Journal on Computing, 0, , .	1.7	6
72	Solution of minimum spanning forest problems with reliability constraints. Computers and Industrial Engineering, 2020, 142, 106365.	6.3	6

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73	A Decision Support System for Attended Home Services. Interfaces, 2020, 50, 137-152.	1.5	6
74	Branch-and-Cut and Iterated Local Search for the Weighted <i>k</i>-Traveling Repairman Problem: An Application to the Maintenance of Speed Cameras. Transportation Science, 2021, 55, 139-159.	4.4	6
75	A Decision Support System for Highway Construction: The Autostrada Pedemontana Lombarda. Interfaces, 2016, 46, 245-263.	1.5	4
76	Computational Simulation as an Organizational Prototyping Tool. Proceedings of the Design Society International Conference on Engineering Design, 2019, 1, 1105-1114.	0.6	4
77	The double traveling salesman problem with partial lastâ€inâ€firstâ€out loading constraints. International Transactions in Operational Research, 2022, 29, 2346-2373.	2.7	4
78	Scheduling of Parallel Print Machines with Sequence-Dependent Setup Costs: A Real-World Case Study. IFIP Advances in Information and Communication Technology, 2021, , 637-645.	0.7	4
79	Scatter Search Algorithms for Identical Parallel Machine Scheduling Problems. Studies in Computational Intelligence, 2008, , 41-59.	0.9	4
80	Solution of a Practical Pallet Building Problem with Visibility and Contiguity Constraints. , 2020, , .		4
81	A Decision Support System for a Multi-trip Vehicle Routing Problem with Trucks and Drivers Scheduling. , 2020, , .		4
82	Successful implementation of discrete event simulation: integrating design thinking and simulation approach in an emergency department. Production Planning and Control, 2023, 34, 1233-1247.	8.8	4
83	Optimal design of fair layouts. Flexible Services and Manufacturing Journal, 2013, 25, 443-461.	3.4	3
84	Scheduling cleaning activities on trains by minimizing idle times. Journal of Scheduling, 2017, 20, 493-506.	1.9	3
85	New Exact Techniques Applied to a Class of Network Flow Formulations. Lecture Notes in Computer Science, 2021, , 178-192.	1.3	3
86	An Integrated Task and Personnel Scheduling Problem to Optimize Distributed Services in Hospitals. , 2021, , .		3
87	Reactive GRASP-Based Algorithm for Pallet Building Problem with Visibility and Contiguity Constraints. Lecture Notes in Computer Science, 2020, , 651-665.	1.3	3
88	Models and algorithms for fair layout optimization problems. Annals of Operations Research, 2010, 179, 5-14.	4.1	2
89	Bin Packing Problem With General Precedence Constraints. IFAC-PapersOnLine, 2015, 48, 2027-2029.	0.9	2
90	An Iterated Dual Substitution Approach for Binary Integer Programming Problems Under the Min-Max Regret Criterion. INFORMS Journal on Computing, 2022, 34, 2523-2539.	1.7	2

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91	Rejoinder on: Routing problems with loading constraints. Top, 2010, 18, 41-42.	1.6	1
92	A note on exact and heuristic algorithms for the identical parallel machine scheduling problem. Journal of Heuristics, 2012, 18, 939-942.	1.4	1
93	Facing Implementation Barriers to Healthcare Simulation Studies. Springer Proceedings in Mathematics and Statistics, 2020, , 117-129.	0.2	1
94	A Variable Neighborhood Heuristic for Facility Locations in Fog Computing. Lecture Notes in Computer Science, 2021, , 28-42.	1.3	1
95	A Decision Support System to Evaluate Suppliers in the Context of Global Service Providers. , 2021, , .		1
96	Scheduling of Patients in Emergency Departments with a Variable Neighborhood Search. Lecture Notes in Computer Science, 2021, , 138-151.	1.3	1
97	Integrated Workforce Scheduling and Flexible Flow Shop Problem in the Meat Industry. IFIP Advances in Information and Communication Technology, 2021, , 594-602.	0.7	1
98	A Mixed Approach for Pallet Building Problem with Practical Constraints. Lecture Notes in Business Information Processing, 2021, , 122-139.	1.0	1
99	Mathematical models and heuristic algorithms for pallet building problems with practical constraints. Annals of Operations Research, 0, , 1.	4.1	1
100	An Iterated Local Search for a Pharmaceutical Storage Location Assignment Problem with Product-cell Incompatibility and Isolation Constraints. , 2022, , .		1
101	Formulação de fluxo em arcos para problemas de agrupamento capacitado. , 0, , .		0
102	Integer Linear Programming for the Tutor Allocation Problem: A practical case in a British University. Expert Systems With Applications, 2022, 187, 115967.	7.6	0