

Vittorio Maniezzo

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2979204/publications.pdf>

Version: 2024-02-01

70
papers

12,229
citations

257101

24
h-index

123241

61
g-index

75
all docs

75
docs citations

75
times ranked

7325
citing authors

#	ARTICLE	IF	CITATIONS
1	Ant system: optimization by a colony of cooperating agents. IEEE Transactions on Systems, Man, and Cybernetics, 1996, 26, 29-41.	5.5	8,864
2	The ant system applied to the quadratic assignment problem. IEEE Transactions on Knowledge and Data Engineering, 1999, 11, 769-778.	4.0	511
3	Genetic evolution of the topology and weight distribution of neural networks. IEEE Transactions on Neural Networks, 1994, 5, 39-53.	4.8	378
4	An Exact Algorithm for the Resource-Constrained Project Scheduling Problem Based on a New Mathematical Formulation. Management Science, 1998, 44, 714-729.	2.4	274
5	Exact and Approximate Nondeterministic Tree-Search Procedures for the Quadratic Assignment Problem. INFORMS Journal on Computing, 1999, 11, 358-369.	1.0	248
6	An Exact Method for the Car Pooling Problem Based on Lagrangean Column Generation. Operations Research, 2004, 52, 422-439.	1.2	208
7	Heuristics from Nature for Hard Combinatorial Optimization Problems. International Transactions in Operational Research, 1996, 3, 1-21.	1.8	207
8	An ANTS heuristic for the frequency assignment problem. Future Generation Computer Systems, 2000, 16, 927-935.	4.9	137
9	A distributed geographic information system for the daily car pooling problem. Computers and Operations Research, 2004, 31, 2263-2278.	2.4	118
10	A variable neighborhood search for the capacitated arc routing problem with intermediate facilities. Journal of Heuristics, 2008, 14, 405-423.	1.1	97
11	A decision support system for urban waste management. European Journal of Operational Research, 1998, 109, 330-341.	3.5	95
12	Matheuristics: Optimization, Simulation and Control. Lecture Notes in Computer Science, 2009, , 171-177.	1.0	91
13	Exact methods based on node-routing formulations for undirected arc-routing problems. Networks, 2006, 47, 52-60.	1.6	84
14	Ant Colony Optimization. Studies in Fuzziness and Soft Computing, 2004, , 101-121.	0.6	80
15	A Bionomic Approach to the Capacitated p-Median Problem. Journal of Heuristics, 1998, 4, 263-280.	1.1	66
16	Metaheuristics for High School Timetabling. Computational Optimization and Applications, 1998, 9, 275-298.	0.9	65
17	Genetic algorithms and highly constrained problems: The time-table case. , 1990, , 55-59.		58
18	Decision support for siting problems. Decision Support Systems, 1998, 23, 273-284.	3.5	57

#	ARTICLE	IF	CITATIONS
19	Benders decomposition, Lagrangean relaxation and metaheuristic design. Journal of Heuristics, 2009, 15, 283-312.	1.1	53
20	A new method for solving capacitated location problems based on a set partitioning approach. Computers and Operations Research, 2002, 29, 365-386.	2.4	48
21	Algodesk: An experimental comparison of eight evolutionary heuristics applied to the Quadratic Assignment Problem. European Journal of Operational Research, 1995, 81, 188-204.	3.5	47
22	Ant Colony Optimization: An Overview. Operations Research/ Computer Science Interfaces Series, 2002, , 469-492.	0.3	47
23	Algorithms for nesting with defects. Discrete Applied Mathematics, 2014, 163, 17-33.	0.5	38
24	An ANTS Heuristic for the Long " Term Car Pooling Problem. Studies in Fuzziness and Soft Computing, 2004, , 411-430.	0.6	29
25	A set covering based matheuristic for a real-world city logistics problem. International Transactions in Operational Research, 2015, 22, 169-195.	1.8	28
26	Materialization of fragmented views in multidimensional databases. Data and Knowledge Engineering, 2004, 49, 325-351.	2.1	25
27	An Ant-Based Framework for Very Strongly Constrained Problems. Lecture Notes in Computer Science, 2002, , 222-227.	1.0	23
28	The project scheduling problem with irregular starting time costs. Operations Research Letters, 1999, 25, 175-182.	0.5	19
29	Applying Ant Colony Optimization to the Capacitated Arc Routing Problem. Lecture Notes in Computer Science, 2004, , 420-421.	1.0	18
30	Matheuristics: using mathematics for heuristic design. 4or, 2022, 20, 173-208.	1.0	15
31	VERY STRONGLY CONSTRAINED PROBLEMS: AN ANT COLONY OPTIMIZATION APPROACH. Cybernetics and Systems, 2008, 39, 395-424.	1.6	14
32	Air quality simulation through cellular automata. Environmental Software, 1992, 7, 131-141.	0.3	13
33	A Heuristic Procedure For the Multi-mode Project Scheduling Problem Based on Benders's™ Decomposition. Profiles in Operations Research, 1999, , 179-196.	0.3	13
34	Special issue on mathematical contributions to "metaheuristics editorial. Journal of Heuristics, 2009, 15, 197-199.	1.1	13
35	Integrating expert systems and decision-support systems: principles and practice. Knowledge-Based Systems, 1991, 4, 172-176.	4.0	12
36	Decomposition Techniques as Metaheuristic Frameworks. Annals of Information Systems, 2009, , 135-158.	0.5	11

#	ARTICLE	IF	CITATIONS
37	An Ant Approach to Membership Overlay Design. Lecture Notes in Computer Science, 2004, , 37-48.	1.0	9
38	Using GPU Computing for Solving the Two-Dimensional Guillotine Cutting Problem. INFORMS Journal on Computing, 2016, 28, 540-552.	1.0	8
39	Route relaxations on GPU for vehicle routing problems. European Journal of Operational Research, 2017, 258, 456-466.	3.5	8
40	Stochastic premarshalling of block stacking warehouses. Omega, 2021, 102, 102336.	3.6	7
41	A Genetic/Tabu Thresholding Hybrid Algorithm for the Process Allocation Problem. Journal of Heuristics, 1997, 3, 91-110.	1.1	6
42	Cellular Automata and Roundabout Traffic Simulation. Lecture Notes in Computer Science, 2004, , 202-210.	1.0	6
43	A Fully Distributed Lagrangean Solution for a Peer-to-Peer Overlay Network Design Problem. INFORMS Journal on Computing, 2011, 23, 90-104.	1.0	6
44	Edge-Based Transfer Learning for Classroom Occupancy Detection in a Smart Campus Context. Sensors, 2022, 22, 3692.	2.1	6
45	Modelling the student in Pitagora 2.0. User Modeling and User-Adapted Interaction, 1995, 4, 233-251.	2.9	5
46	An Ant System Heuristic for the Two-Dimensional Finite Bin Packing Problem: preliminary results. Mathematics in Industry, 2005, , 233-247.	0.1	5
47	A PSYCHOGENETIC ALGORITHM FOR BEHAVIORAL SEQUENCE LEARNING. International Journal on Artificial Intelligence Tools, 2007, 16, 195-217.	0.7	5
48	Preface to the Special Issue on Matheuristics and Metaheuristics. International Transactions in Operational Research, 2020, 27, 5-8.	1.8	5
49	The Generalized Assignment Problem. EURO Advanced Tutorials on Operational Research, 2021, , 3-33.	0.6	5
50	Client-side Computational Optimization. ACM Transactions on Mathematical Software, 2019, 45, 1-16.	1.6	4
51	An ANTS Algorithm for Optimizing the Materialization of Fragmented Views in Data Warehouses: Preliminary Results. Lecture Notes in Computer Science, 2001, , 80-89.	1.0	4
52	The Ant Colony Optimization Paradigm for Combinatorial Optimization. Natural Computing Series, 2003, , 539-557.	2.2	4
53	Metaheuristic search techniques for multi-objective and stochastic problems: a history of the inventions of Walter J. Gutjahr in the past 22 years. Central European Journal of Operations Research, 2018, 26, 331-356.	1.1	3
54	An Adaptive Memory-Based Approach Based on Partial Enumeration. Lecture Notes in Computer Science, 2008, , 12-24.	1.0	3

#	ARTICLE	IF	CITATIONS
55	Mode determination in noisy bimodal images by histogram comparison. Pattern Recognition Letters, 1995, 16, 1237-1248.	2.6	2
56	Parallel simulation of a cellular pollution model. Applied Mathematics and Computation, 1996, 79, 27-41.	1.4	2
57	Preface to the Special Issue on Matheuristics: Model-Based Metaheuristics. International Transactions in Operational Research, 2015, 22, 1-1.	1.8	2
58	Membership overlay design optimization with resource constraints (accelerated on GPU). Journal of Parallel and Distributed Computing, 2019, 133, 286-296.	2.7	2
59	Machine learning and combinatorial optimization, editorial. OR Spectrum, 2021, 43, 603-605.	2.1	2
60	Regional Traffic Assignment by ACO. Lecture Notes in Computer Science, 2008, , 409-410.	1.0	1
61	Modeling Distributed MQTT Systems Using Multicommodity Flow Analysis. Electronics (Switzerland), 2022, 11, 1498.	1.8	1
62	A Decision Support System Distributed on the Internet. Journal of Decision Systems, 1997, 6, 353-368.	2.2	0
63	GRID-based services for optimized freight distribution. , 2006, , .		0
64	Real world finite capacity planning: a partial enumeration " based optimizer. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 2023-2028.	0.4	0
65	Special issue on "Matheuristics": International Transactions in Operational Research, 2016, 23, 993-994.	1.8	0
66	Special issue on "Matheuristics": International Transactions in Operational Research, 2016, 23, 1231-1232.	1.8	0
67	Population-Based Metaheuristics. EURO Advanced Tutorials on Operational Research, 2021, , 95-130.	0.6	0
68	Single Solution Metaheuristics. EURO Advanced Tutorials on Operational Research, 2021, , 61-94.	0.6	0
69	Corridor Method. EURO Advanced Tutorials on Operational Research, 2021, , 179-187.	0.6	0
70	Soft Variable Fixing in Path Relinking: An Application to ACO Codes. Lecture Notes in Computer Science, 2010, , 576-577.	1.0	0