

Roberto Battiti

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

70
papers

4,856
citations

24
h-index

69
g-index

75
ext. papers

5,661
ext. citations

3.4
avg, IF

5.96
L-index

#	Paper	IF	Citations
70	RoomTetris in room committing: why the role of minimum-length-of-stay requirements should be revisited. <i>International Journal of Contemporary Hospitality Management</i> , 2021 , ahead-of-print,	7.5	2
69	RoomTetris: an optimal procedure for committing rooms to reservations in hotels. <i>Journal of Hospitality and Tourism Technology</i> , 2020 , 11, 589-602	4.2	1
68	Combining intelligent heuristics with simulators in hotel revenue management. <i>Annals of Mathematics and Artificial Intelligence</i> , 2020 , 88, 71-90	0.8	3
67	Reactive Search Optimization: Learning While Optimizing. <i>Profiles in Operations Research</i> , 2019 , 479-511	1	1
66	A reactive self-tuning scheme for multilevel graph partitioning. <i>Applied Mathematics and Computation</i> , 2018 , 318, 227-244	2.7	3
65	Feature Selection Based on the Neighborhood Entropy. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2018 , 29, 6313-6322	10.3	16
64	A Telescopic Binary Learning Machine for Training Neural Networks. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2017 , 28, 665-677	10.3	1
63	GENOPT 2016: Design of a generalization-based challenge in global optimization 2016 ,		3
62	CoRSO (Collaborative Reactive Search Optimization): Blending Combinatorial and Continuous Local Search. <i>Informatica</i> , 2016 , 27, 299-322	2.9	3
61	Extreme Reactive Portfolio (XRP): Tuning an Algorithm Population for Global Optimization. <i>Lecture Notes in Computer Science</i> , 2016 , 60-74	0.9	
60	X-MIFS: Exact Mutual Information for feature selection 2016 ,		3
59	A flexible cluster-oriented alternative clustering algorithm for choosing from the Pareto front of solutions. <i>Machine Learning</i> , 2015 , 98, 57-91	4	3
58	Hybridization of decomposition and local search for multiobjective optimization. <i>IEEE Transactions on Cybernetics</i> , 2014 , 44, 1808-20	10.2	156
57	Active learning of Pareto fronts. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2014 , 25, 506-19	10.3	25
56	Discovering Non-redundant Overlapping Biclusters on Gene Expression Data 2013 ,		4
55	Learning and intelligent optimization (LION). <i>Proceedings of the VLDB Endowment</i> , 2013 , 6, 1176-1177	3.1	6
54	MOEA/D-ACO: a multiobjective evolutionary algorithm using decomposition and AntColony. <i>IEEE Transactions on Cybernetics</i> , 2013 , 43, 1845-59	10.2	214

53	A Repeated Local Search Algorithm for BiClustering of Gene Expression Data. <i>Lecture Notes in Computer Science</i> , 2013 , 281-296	0.9	2
52	Reactive Business Intelligence: Combining the Power of Optimization with Machine Learning 2013 , 2815-2848		
51	A Cluster-Oriented Genetic Algorithm for Alternative Clustering 2012 ,		3
50	Active Learning of Combinatorial Features for Interactive Optimization. <i>Lecture Notes in Computer Science</i> , 2011 , 336-350	0.9	1
49	R-EVO: A Reactive Evolutionary Algorithm for the Maximum Clique Problem. <i>IEEE Transactions on Evolutionary Computation</i> , 2011 , 15, 770-782	15.6	16
48	An Investigation of Reinforcement Learning for Reactive Search Optimization 2011 , 131-160		3
47	Reactive Search Optimization: Learning While Optimizing. <i>Profiles in Operations Research</i> , 2010 , 543-571	1	21
46	Reactive and dynamic local search for max-clique: Engineering effective building blocks. <i>Computers and Operations Research</i> , 2010 , 37, 534-542	4.6	10
45	Special issue on learning and intelligent optimization. <i>Annals of Mathematics and Artificial Intelligence</i> , 2010 , 60, 1-2	0.8	1
44	Brain-Computer Evolutionary Multiobjective Optimization: A Genetic Algorithm Adapting to the Decision Maker. <i>IEEE Transactions on Evolutionary Computation</i> , 2010 , 14, 671-687	15.6	92
43	Grapheur: A Software Architecture for Reactive and Interactive Optimization. <i>Lecture Notes in Computer Science</i> , 2010 , 232-246	0.9	3
42	An On/Off Lattice Approach to Protein Structure Prediction from Contact Maps. <i>Lecture Notes in Computer Science</i> , 2010 , 368-379	0.9	1
41	Reactive Search and Intelligent Optimization. <i>Operations Research/ Computer Science Interfaces Series</i> , 2009 ,	0.3	44
40	An efficient weak secrecy scheme for network coding data dissemination in VANET 2008 ,		6
39	RASH: A Self-adaptive Random Search Method. <i>Studies in Computational Intelligence</i> , 2008 , 95-117	0.8	5
38	Learning While Optimizing an Unknown Fitness Surface. <i>Lecture Notes in Computer Science</i> , 2008 , 25-40	0.9	4
37	On Effectively Finding Maximal Quasi-cliques in Graphs. <i>Lecture Notes in Computer Science</i> , 2008 , 41-55	0.9	33
36	Achieving Optimal Performance by Using the IEEE 802.11 MAC Protocol With Service Differentiation Enhancements. <i>IEEE Transactions on Vehicular Technology</i> , 2007 , 56, 1374-1387	6.8	17

35	Supporting service differentiation with enhancements of the IEEE 802.11 MAC protocol: Models and analysis. <i>Science in China Series F: Information Sciences</i> , 2007 , 50, 732-746		2
34	On partitioning of hypergraphs. <i>Discrete Mathematics</i> , 2007 , 307, 1737-1753	0.7	1
33	Achieving optimal performance in IEEE 802.11 wireless LANs with the combination of link adaptation and adaptive backoff. <i>Computer Networks</i> , 2007 , 51, 1574-1600	5.4	9
32	An Algorithm Portfolio for the Sub-graph Isomorphism Problem 2007 , 106-120		6
31	Reactive Search. <i>Chapman & Hall/CRC Computer and Information Science Series</i> , 2007 , 21-1-21-17		3
30	Performance analysis of a service-dependent handoff scheme in voice/data integrated cellular mobile systems. <i>Computer Networks</i> , 2006 , 50, 707-730	5.4	11
29	The gregarious particle swarm optimizer (G-PSO) 2006 ,		40
28	Dynamic Self-management of Autonomic Systems: The Reputation, Quality and Credibility (RQC) Scheme. <i>Lecture Notes in Computer Science</i> , 2005 , 165-178	0.9	4
27	Statistical learning theory for location fingerprinting in wireless LANs. <i>Computer Networks</i> , 2005 , 47, 825-845	5.4	332
26	Wireless LANs: From WarChalking to Open Access Networks. <i>Mobile Networks and Applications</i> , 2005 , 10, 275-287	2.9	19
25	Analysis of the IEEE 802.11 DCF with Service Differentiation Support in Non-saturation Conditions. <i>Lecture Notes in Computer Science</i> , 2004 , 64-73	0.9	5
24	Achieving Maximum Throughput and Service Differentiation by Enhancing the IEEE 802.11 MAC Protocol. <i>Lecture Notes in Computer Science</i> , 2004 , 285-300	0.9	4
23	Performance Analysis of an Enhanced IEEE 802.11 Distributed Coordination Function Supporting Service Differentiation. <i>Lecture Notes in Computer Science</i> , 2003 , 152-161	0.9	19
22	A Multistart Randomized Greedy Algorithm for Traffic Grooming on Mesh Logical Topologies. <i>IFIP Advances in Information and Communication Technology</i> , 2003 , 417-430	0.5	3
21	Load Balancing in WDM Networks through Adaptive Routing Table Changes. <i>Lecture Notes in Computer Science</i> , 2002 , 289-300	0.9	2
20	Cellular Channel Assignment: A New Localized and Distributed Strategy. <i>Mobile Networks and Applications</i> , 2001 , 6, 493-500	2.9	9
19	A randomized saturation degree heuristic for channel assignment in cellular radio networks. <i>IEEE Transactions on Vehicular Technology</i> , 2001 , 50, 364-374	6.8	36
18	Reactive Local Search for the Maximum Clique Problem1. <i>Algorithmica</i> , 2001 , 29, 610-637	0.9	143

17	Reactive Search for Traffic Grooming in WDM Networks. <i>Lecture Notes in Computer Science</i> , 2001 , 56-66	0.9	6
16	Reactive local search techniques for the maximum k-conjunctive constraint satisfaction problem (MAX-k-CCSP). <i>Discrete Applied Mathematics</i> , 1999 , 96-97, 3-27	1	3
15	Assigning codes in wireless networks: bounds and scaling properties. <i>Wireless Networks</i> , 1999 , 5, 195-209	2.5	47
14	Greedy, prohibition, and reactive heuristics for graph partitioning. <i>IEEE Transactions on Computers</i> , 1999 , 48, 361-385	2.5	58
13	Approximate Algorithms and Heuristics for MAX-SAT		25
12	Reactive search, a history-sensitive heuristic for MAX-SAT. <i>Journal of Experimental Algorithmics</i> , 1997 , 2, 2	1.1	50
11	The continuous reactive tabu search: Blending combinatorial optimization and stochastic search for global optimization. <i>Annals of Operations Research</i> , 1996 , 63, 151-188	3.2	58
10	Local search with memory: benchmarking RTS. <i>OR Spectrum</i> , 1995 , 17, 67-86	1.9	27
9	Training neural nets with the reactive tabu search. <i>IEEE Transactions on Neural Networks</i> , 1995 , 6, 1185-200		67
8	The Reactive Tabu Search. <i>ORSA Journal on Computing</i> , 1994 , 6, 126-140		534
7	Democracy in neural nets: Voting schemes for classification. <i>Neural Networks</i> , 1994 , 7, 691-707	9.1	222
6	Learning with first, second, and no derivatives: A case study in high energy physics. <i>Neurocomputing</i> , 1994 , 6, 181-206	5.4	30
5	Using mutual information for selecting features in supervised neural net learning. <i>IEEE Transactions on Neural Networks</i> , 1994 , 5, 537-50		1468
4	First- and Second-Order Methods for Learning: Between Steepest Descent and Newton's Method. <i>Neural Computation</i> , 1992 , 4, 141-166	2.9	772
3	Parallel biased search for combinatorial optimization: genetic algorithms and TABU. <i>Microprocessors and Microsystems</i> , 1992 , 16, 351-367	2.4	69
2	Real-time multi-scale vision on multi-computers. <i>Concurrency and Computation: Practice and Experience</i> , 1991 , 3, 55-87		1
1	Computing optical flow across multiple scales: An adaptive coarse-to-fine strategy. <i>International Journal of Computer Vision</i> , 1991 , 6, 133-145	10.6	62