Roberto Battiti

List of Publications by Citations

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	Using mutual information for selecting features in supervised neural net learning. *IEEE Transactions on Neural Networks*, **1994**, 5, 537-50		1468
69	First- and Second-Order Methods for Learning: Between Steepest Descent and Newton's Method. *Neural Computation*, **1992**, 4, 141-166	2.9	772
68	The Reactive Tabu Search. *ORSA Journal on Computing*, **1994**, 6, 126-140		534
67	Statistical learning theory for location fingerprinting in wireless LANs. *Computer Networks*, **2005**, 47, 825-845	5.4	332
66	Democracy in neural nets: Voting schemes for classification. *Neural Networks*, **1994**, 7, 691-707	9.1	222
65	MOEA/D-ACO: a multiobjective evolutionary algorithm using decomposition and AntColony. *IEEE Transactions on Cybernetics*, **2013**, 43, 1845-59	10.2	214
64	Hybridization of decomposition and local search for multiobjective optimization. *IEEE Transactions on Cybernetics*, **2014**, 44, 1808-20	10.2	156
63	Reactive Local Search for the Maximum Clique Problem1. *Algorithmica*, **2001**, 29, 610-637	0.9	143
62	Brain Computer Evolutionary Multiobjective Optimization: A Genetic Algorithm Adapting to the Decision Maker. *IEEE Transactions on Evolutionary Computation*, **2010**, 14, 671-687	15.6	92
61	Parallel biased search for combinatorial optimization: genetic algorithms and TABU. *Microprocessors and Microsystems*, **1992**, 16, 351-367	2.4	69
60	Training neural nets with the reactive tabu search. *IEEE Transactions on Neural Networks*, **1995**, 6, 1185-200		67
59	Computing optical flow across multiple scales: An adaptive coarse-to-fine strategy. *International Journal of Computer Vision*, **1991**, 6, 133-145	10.6	62
58	Greedy, prohibition, and reactive heuristics for graph partitioning. *IEEE Transactions on Computers*, **1999**, 48, 361-385	2.5	58
57	The continuous reactive tabu search: Blending combinatorial optimization and stochastic search for global optimization. *Annals of Operations Research*, **1996**, 63, 151-188	3.2	58
56	Reactive search, a history-sensitive heuristic for MAX-SAT. *Journal of Experimental Algorithmics*, **1997**, 2, 2	1.1	50
55	Assigning codes in wireless networks: bounds and scaling properties. *Wireless Networks*, **1999**, 5, 195-209	2.5	47
54	Reactive Search and Intelligent Optimization. *Operations Research/ Computer Science Interfaces Series*, **2009**,	0.3	44

No.	Reference	IF	Cit.
53	The gregarious particle swarm optimizer (G-PSO) **2006**,		40
52	A randomized saturation degree heuristic for channel assignment in cellular radio networks. *IEEE Transactions on Vehicular Technology*, **2001**, 50, 364-374	6.8	36
51	On Effectively Finding Maximal Quasi-cliques in Graphs. *Lecture Notes in Computer Science*, **2008**, 41-55	0.9	33
50	Learning with first, second, and no derivatives: A case study in high energy physics. *Neurocomputing*, **1994**, 6, 181-206	5.4	30
49	Local search with memory: benchmarking RTS. *OR Spectrum*, **1995**, 17, 67-86	1.9	27
48	Active learning of Pareto fronts. *IEEE Transactions on Neural Networks and Learning Systems*, **2014**, 25, 506-19	10.3	25
47	Approximate Algorithms and Heuristics for MAX-SAT **1998**, 77-148		25
46	Reactive Search Optimization: Learning While Optimizing. *Profiles in Operations Research*, **2010**, 543-571	1	21
45	Performance Analysis of an Enhanced IEEE 802.11 Distributed Coordination Function Supporting Service Differentiation. *Lecture Notes in Computer Science*, **2003**, 152-161	0.9	19
44	Wireless LANs: From WarChalking to Open Access Networks. *Mobile Networks and Applications*, **2005**, 10, 275-287	2.9	19
43	Achieving Optimal Performance by Using the IEEE 802.11 MAC Protocol With Service Differentiation Enhancements. *IEEE Transactions on Vehicular Technology*, **2007**, 56, 1374-1387	6.8	17
42	R-EVO: A Reactive Evolutionary Algorithm for the Maximum Clique Problem. *IEEE Transactions on Evolutionary Computation*, **2011**, 15, 770-782	15.6	16
41	Feature Selection Based on the Neighborhood Entropy. *IEEE Transactions on Neural Networks and Learning Systems*, **2018**, 29, 6313-6322	10.3	16
40	Performance analysis of a service-dependent handoff scheme in voice/data integrated cellular mobile systems. *Computer Networks*, **2006**, 50, 707-730	5.4	11
39	Reactive and dynamic local search for max-clique: Engineering effective building blocks. *Computers and Operations Research*, **2010**, 37, 534-542	4.6	10
38	Achieving optimal performance in IEEE 802.11 wireless LANs with the combination of link adaptation and adaptive backoff. *Computer Networks*, **2007**, 51, 1574-1600	5.4	9
37	Cellular Channel Assignment: A New Localized and Distributed Strategy. *Mobile Networks and Applications*, **2001**, 6, 493-500	2.9	9
36	Learning and intelligent optimization (LION). *Proceedings of the VLDB Endowment*, **2013**, 6, 1176-1177	3.1	6

35	An efficient weak secrecy scheme for network coding data dissemination in VANET **2008**,		6
34	An Algorithm Portfolio for the Sub-graph Isomorphism Problem **2007**, 106-120		6
33	Reactive Search for Traffic Grooming in WDM Networks. *Lecture Notes in Computer Science*, **2001**, 56-66	0.9	6
32	Analysis of the IEEE 802.11 DCF with Service Differentiation Support in Non-saturation Conditions. *Lecture Notes in Computer Science*, **2004**, 64-73	0.9	5
31	RASH: A Self-adaptive Random Search Method. *Studies in Computational Intelligence*, **2008**, 95-117	0.8	5
30	Discovering Non-redundant Overlapping Biclusters on Gene Expression Data **2013**,		4
29	Dynamic Self-management of Autonomic Systems: The Reputation, Quality and Credibility (RQC) Scheme. *Lecture Notes in Computer Science*, **2005**, 165-178	0.9	4
28	Achieving Maximum Throughput and Service Differentiation by Enhancing the IEEE 802.11 MAC Protocol. *Lecture Notes in Computer Science*, **2004**, 285-300	0.9	4
27	Learning While Optimizing an Unknown Fitness Surface. *Lecture Notes in Computer Science*, **2008**, 25-40	0.9	4
26	A flexible cluster-oriented alternative clustering algorithm for choosing from the Pareto front of solutions. *Machine Learning*, **2015**, 98, 57-91	4	3
25	A reactive self-tuning scheme for multilevel graph partitioning. *Applied Mathematics and Computation*, **2018**, 318, 227-244	2.7	3
24	GENOPT 2016: Design of a generalization-based challenge in global optimization **2016**,		3
23	A Cluster-Oriented Genetic Algorithm for Alternative Clustering **2012**,		3
22	Reactive local search techniques for the maximum k-conjunctive constraint satisfaction problem (MAX-k-CCSP). *Discrete Applied Mathematics*, **1999**, 96-97, 3-27	1	3
21	CoRSO (Collaborative Reactive Search Optimization): Blending Combinatorial and Continuous Local Search. *Informatica*, **2016**, 27, 299-322	2.9	3
20	Reactive Search. *Chapman & Hall/CRC Computer and Information Science Series*, **2007**, 21-1-21-17		3
19	Grapheur: A Software Architecture for Reactive and Interactive Optimization. *Lecture Notes in Computer Science*, **2010**, 232-246	0.9	3
18	An Investigation of Reinforcement Learning for Reactive Search Optimization **2011**, 131-160		3

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17	X-MIFS: Exact Mutual Information for feature selection **2016**,		3
16	Combining intelligent heuristics with simulators in hotel revenue management. *Annals of Mathematics and Artificial Intelligence*, **2020**, 88, 71-90	0.8	3
15	A Multistart Randomized Greedy Algorithm for Traffic Grooming on Mesh Logical Topologies. *IFIP Advances in Information and Communication Technology*, **2003**, 417-430	0.5	3
14	Supporting service differentiation with enhancements of the IEEE 802.11 MAC protocol: Models and analysis. *Science in China Series F: Information Sciences*, **2007**, 50, 732-746		2
13	Load Balancing in WDM Networks through Adaptive Routing Table Changes. *Lecture Notes in Computer Science*, **2002**, 289-300	0.9	2
12	A Repeated Local Search Algorithm for BiClustering of Gene Expression Data. *Lecture Notes in Computer Science*, **2013**, 281-296	0.9	2
11	RoomTetris in room committing: why the role of minimum-length-of-stay requirements should be revisited. *International Journal of Contemporary Hospitality Management*, **2021**, ahead-of-print,	7.5	2
10	A Telescopic Binary Learning Machine for Training Neural Networks. *IEEE Transactions on Neural Networks and Learning Systems*, **2017**, 28, 665-677	10.3	1
9	RoomTetris: an optimal procedure for committing rooms to reservations in hotels. *Journal of Hospitality and Tourism Technology*, **2020**, 11, 589-602	4.2	1
8	Active Learning of Combinatorial Features for Interactive Optimization. *Lecture Notes in Computer Science*, **2011**, 336-350	0.9	1
7	Special issue on learning and intelligent optimization. *Annals of Mathematics and Artificial Intelligence*, **2010**, 60, 1-2	0.8	1
6	On partitioning of hypergraphs. *Discrete Mathematics*, **2007**, 307, 1737-1753	0.7	1
5	Real-time multi-scale vision on multi-computers. *Concurrency and Computation: Practice and Experience*, **1991**, 3, 55-87		1
4	An On/Off Lattice Approach to Protein Structure Prediction from Contact Maps. *Lecture Notes in Computer Science*, **2010**, 368-379	0.9	1
3	Reactive Search Optimization: Learning While Optimizing. *Profiles in Operations Research*, **2019**, 479-511	1	1
2	Extreme Reactive Portfolio (XRP): Tuning an Algorithm Population for Global Optimization. *Lecture Notes in Computer Science*, **2016**, 60-74	0.9	
1	Reactive Business Intelligence: Combining the Power of Optimization with Machine Learning **2013**, 2815-2848		