Mohammad Reza Bonyadi

List of Publications by Year
in descending order

42 papers	1,473 citations	687220 13 h-index	501076 28 g-index
42 all docs	42 docs citations	42 times ranked	1371 citing authors

#	Article	IF	Citations
1	Particle Swarm Optimization for Single Objective Continuous Space Problems: A Review. Evolutionary Computation, 2017, 25, 1-54.	2.3	517
2	Analysis of Stability, Local Convergence, and Transformation Sensitivity of a Variant of the Particle Swarm Optimization Algorithm. IEEE Transactions on Evolutionary Computation, 2016, 20, 370-385.	7.5	113
3	The travelling thief problem: The first step in the transition from theoretical problems to realistic problems. , 2013, , .		90
4	A comprehensive benchmark set and heuristics for the traveling thief problem. , 2014, , .		76
5	Stability Analysis of the Particle Swarm Optimization Without Stagnation Assumption. IEEE Transactions on Evolutionary Computation, 2016, 20, 814-819.	7.5	73
6	A locally convergent rotationally invariant particle swarm optimization algorithm. Swarm Intelligence, 2014, 8, 159-198.	1.3	64
7	An analysis of the velocity updating rule of the particle swarm optimization algorithm. Journal of Heuristics, 2014, 20, 417-452.	1.1	51
8	Integer Convolutional Neural Network for Seizure Detection. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2018, 8, 849-857.	2.7	51
9	Supervised learning in automatic channel selection for epileptic seizure detection. Expert Systems With Applications, 2017, 86, 199-207.	4.4	49
10	Socially inspired algorithms for the travelling thief problem. , 2014, , .		40
11	A hybrid particle swarm with a time-adaptive topology for constrained optimization. Swarm and Evolutionary Computation, 2014, 18, 22-37.	4.5	40
12	Parallel evolutionary algorithm for single and multi-objective optimisation: Differential evolution and constraints handling. Applied Soft Computing Journal, 2017, 61, 995-1012.	4.1	31
13	Impacts of coefficients on movement patterns in the particle swarm optimization algorithm. IEEE Transactions on Evolutionary Computation, 2016, , 1-1.	7.5	29
14	A Theoretical Guideline for Designing an Effective Adaptive Particle Swarm. IEEE Transactions on Evolutionary Computation, 2020, 24, 57-68.	7.5	27
15	A Bipartite Genetic Algorithm for Multi-processor Task Scheduling. International Journal of Parallel Programming, 2009, 37, 462-487.	1.1	24
16	FUSCD - Future Smart Car Driver. , 2019, , .		24
17	Identification of potential locations for well placement in developed coalbed methane reservoirs. International Journal of Coal Geology, 2014, 131, 250-262.	1.9	22
18	A hybrid particle swarm with velocity mutation for constraint optimization problems. , 2013, , .		20

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19	SPSO 2011. , 2014, , .		14
20	An Immune-based Genetic Algorithm with Reduced Search Space Coding for Multiprocessor Task Scheduling Problem. International Journal of Parallel Programming, 2012, 40, 225-257.	1.1	12
21	A Protocol for Digital Signature Based on the Elliptic Curve Discrete Logarithm Problem. Journal of Applied Sciences, 2008, 8, 1919-1925.	0.1	9
22	A new discrete electromagnetism-based meta-heuristic for solving the multidimensional knapsack problem using genetic operators. Operational Research, 2012, 12, 229-252.	1.3	8
23	A dynamic max-min ant system for solving the travelling salesman problem. International Journal of Bio-Inspired Computation, 2010, 2, 422.	0.6	7
24	Solving a real-world wheat blending problem using a hybrid evolutionary algorithm. , 2013, , .		7
25	On the edge of feasibility: A case study of the particle swarm optimizer. , 2014, , .		7
26	Optimal-Margin Evolutionary Classifier. IEEE Transactions on Evolutionary Computation, 2019, 23, 885-898.	7.5	7
27	EVOR. , 2014, , .		6
28	Evolutionary Computation for Real-World Problems. Studies in Computational Intelligence, 2016, , 1-24.	0.7	6
29	Ahura: A Heuristic-Based Racer for the Open Racing Car Simulator. IEEE Transactions on Games, 2017, 9, 290-304.	1.7	6
30	Solving Traveling Salesman Problem Using Combinational Evolutionary Algorithm. , 2007, , 37-44.		6
31	A fast particle swarm optimization algorithm for the multidimensional knapsack problem. , 2012, , .		5
32	Optimization of Distributions Differences for Classification. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 511-523.	7.2	5
33	Beyond the Edge of Feasibility: Analysis of Bottlenecks. Lecture Notes in Computer Science, 2014, , 431-442.	1.0	5
34	A genetic based disk scheduling method to decrease makespan and missed tasks. Information Systems, 2010, 35, 791-803.	2.4	4
35	Hardware design of a new genetic based disk scheduling method. Real-Time Systems, 2011, 47, 41-71.	1.1	4
36	A Hybrid Evolutionary Algorithm for Wheat Blending Problem. Scientific World Journal, The, 2014, 2014, 1-13.	0.8	4

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37	Locating Potentially Disjoint Feasible Regions of a Search Space with a Particle Swarm Optimizer. Infosys Science Foundation Series, 2015, , 205-230.	0.3	3
38	A Hybrid Multiprocessor Task Scheduling Method Based on Immune Genetic Algorithm. , 2008, , .		3
39	A NONUNIFORM HIGH-QUALITY IMAGE COMPRESSION METHOD TO PRESERVE USER-SPECIFIED COMPRESSION RATIO. International Journal of Image and Graphics, 2011, 11, 355-375.	1.2	2
40	Self-Punishment and Reward Backfill for Deep Q-Learning. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 8086-8093.	7.2	2
41	DEM: A discrete electromagnetism-like mechanism for solving discrete problems. , 2009, , .		0
42	Evaluation of IFN-Gamma and HSP70 Level in the Saliva of Behcetâ€™s Disease Patients With Active Oral Lesions. Dental Journal of Hamadan University of Medical Sciences, 2019, 11, 120-124.	0.1	0