Abdel-Rahman Hedar

List of Publications by Year
in descending order

63 papers	1,136 citations	777949 13 h-index	466096 32 g-index
66 all docs	66 docs citations	66 times ranked	918 citing authors

#	Article	IF	Citations
1	Immune System Programming: A Machine Learning Approach Based on Artificial Immune Systems Enhanced by Local Search. Electronics (Switzerland), 2022, 11, 982.	1.8	2
2	Wireless Sensor Networks Management Using Differential Evolution and Minimum Dominating Sets. , 2021, , .		0
3	Hybrid Machine Learning for Solar Radiation Prediction in Reduced Feature Spaces. Energies, 2021, 14, 7970.	1.6	10
4	Simulated Annealing with Exploratory Sensing for Global Optimization. Algorithms, 2020, 13, 230.	1.2	3
5	Estimation of Distribution Algorithms with Fuzzy Sampling for Stochastic Programming Problems. Applied Sciences (Switzerland), 2020, 10, 6937.	1.3	2
6	Wireless Sensor Networks Fault-Tolerance Based on Graph Domination with Parallel Scatter Search. Sensors, 2020, 20, 3509.	2.1	9
7	Evolutionary Algorithms Enhanced with Quadratic Coding and Sensing Search for Global Optimization. Mathematical and Computational Applications, 2020, 25, 7.	0.7	4
8	Adaptive Scatter Search to Solve the Minimum Connected Dominating Set Problem for Efficient Management of Wireless Networks. Algorithms, 2020, 13, 35.	1.2	3
9	Simulation-Based EDAs for Stochastic Programming Problems. Computation, 2020, 8, 18.	1.0	2
10	Immune system programming for medical image segmentation. Journal of Computational Science, 2019, 31, 111-125.	1.5	13
11	Memory-Based Evolutionary Algorithms for Nonlinear and Stochastic Programming Problems. Mathematics, 2019, 7, 1126.	1.1	4
12	Two Meta-Heuristics Designed to Solve the Minimum Connected Dominating Set Problem for Wireless Networks Design and Management. Journal of Network and Systems Management, 2019, 27, 647-687.	3.3	10
13	Parallel genetic algorithm with elite and diverse cores for solving the minimum connected dominating set problem in wireless networks topology control. , 2018, , .		2
14	K-Means Cloning: Adaptive Spherical K-Means Clustering. Algorithms, 2018, 11, 151.	1.2	9
15	Modulated clustering using integrated rough sets and scatter search attribute reduction. , 2018, , .		8
16	Normalised fuzzy index for research ranking. Behaviour and Information Technology, 2018, 37, 1083-1096.	2.5	1
17	Scatter Search for Simulation-Based Optimization. , 2017, , .		1
18	Resource allocation algorithm for GPUs in a private cloud. International Journal of Cloud Computing, 2016, 5, 45.	0.3	9

#	Article	IF	Citations
19	Granular-Based Dimension Reduction for Solar Radiation Prediction Using Adaptive Memory Programming. , 2016, , .		3
20	Two Meta-heuristics for the Minimum Connected Dominating Set Problem with an Application in Wireless Networks. , 2015, , .		5
21	Rough sets attribute reduction using an accelerated genetic algorithm. , 2015, , .		5
22	Hybrid evolutionary algorithms for data classification in intrusion detection systems. , 2015, , .		5
23	Optimization of interval type-2 fuzzy logic systems using tabu search algorithms. , 2014, , .		2
24	Hybrid scatter search for integer programming problems. , 2014, , .		2
25	A rough set approach to feature selection based on scatter search metaheuristic. Journal of Systems Science and Complexity, 2014, 27, 157-168.	1.6	19
26	Applying Tabu Search in Finding an Efficient Solution for the OVRP. International Journal of Open Problems in Computer Science and Mathematics, 2014, 7, 36-51.	0.2	1
27	Three Strategies Tabu Search for Vehicle Routing Problem with Time Windows. Computer Science and Information Technology, 2014, 2, 108-119.	0.1	9
28	Memetic Algorithm for the Minimum Edge Dominating Set Problem. IAES International Journal of Artificial Intelligence, 2013, 2, .	0.6	1
29	SS-SVM (3SVM): A New Classification Method for Hepatitis Disease Diagnosis. International Journal of Advanced Computer Science and Applications, 2013, 4, .	0.5	2
30	Support Vector Machines with Weighted Powered Kernels for Data Classification. Communications in Computer and Information Science, 2012, , 369-378.	0.4	0
31	Tabu search with multi-level neighborhood structures for high dimensional problems. Applied Intelligence, 2012, 37, 189-206.	3.3	33
32	Data classification using Support Vector Machine integrated with scatter search method. , 2012, , .		10
33	Parameter determination of support vector machine using scatter search approach. , 2012, , .		1
34	Utilizing support vector machines in mining online customer reviews. , 2012, , .		6
35	Simulated annealing with stochastic local search for minimum dominating set problem. International Journal of Machine Learning and Cybernetics, 2012, 3, 97-109.	2.3	34
36	Rough set and scatter search metaheuristic based feature selection for credit scoring. Expert Systems With Applications, 2012, 39, 6123-6128.	4.4	65

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37	Hiding Data in FLV Video File. Advances in Intelligent Systems and Computing, 2012, , 919-925.	0.5	0
38	Advanced Parallel Genetic Algorithm with Gene Matrix for Global Optimization. Communications in Computer and Information Science, 2012, , 295-303.	0.4	1
39	TABU PROGRAMMING: A NEW PROBLEM SOLVER THROUGH ADAPTIVE MEMORY PROGRAMMING OVER TREE DATA STRUCTURES. International Journal of Information Technology and Decision Making, 2011, 10, 373-406.	2.3	7
40	Genetic algorithm and Tabu search based methods for molecular 3D-structure prediction. Numerical Algebra, Control and Optimization, 2011, 1, 191-209.	1.0	19
41	Filter-based genetic algorithm for mixed variable programming. Numerical Algebra, Control and Optimization, 2011, 1, 99-116.	1.0	9
42	Ant Colony and Load Balancing Optimizations for AODV Routing Protcol. Internatinoal Journal of Sensor Networks and Data Communications, 2011, 1, 1-14.	0.1	8
43	Hybrid Genetic Algorithm for Minimum Dominating Set Problem. Lecture Notes in Computer Science, 2010, , 457-467.	1.0	24
44	Finding the 3D-Structure of a molecule using genetic algorithm and tabu search methods. , 2010, , .		6
45	An ant colony optimization algorithm for the mobile ad hoc network routing problem based on AODV protocol. , 2010, , .		16
46	Content-Based Image Retrieval using combined features and weighted similarity. , 2010, , .		1
47	Scatter programming. , 2010, , .		0
48	A Hybrid Evolutionary Algorithm for Global Optimization. Springer Optimization and Its Applications, 2010, , 169-184.	0.6	1
49	Scatter Search for Rough Set Attribute Reduction. , 2009, , .		11
50	Genetic algorithm with population partitioning and space reduction for high dimensional problems. , 2009, , .		6
51	Tabu search for attribute reduction in rough set theory. Soft Computing, 2008, 12, 909-918.	2.1	119
52	A new robust line search technique based on Chebyshev polynomials. Applied Mathematics and Computation, 2008, 206, 853-866.	1.4	6
53	Memetic programming with adaptive local search using tree data structures. , 2008, , .		4
54	Scatter Search for Rough Set Attribute Reduction. , 2007, , .		3

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55	Hybrid evolutionary algorithm for solving general variational inequality problems. Journal of Global Optimization, 2007, 38, 637-651.	1.1	10
56	Tabu Search directed by direct search methods for nonlinear global optimization. European Journal of Operational Research, 2006, 170, 329-349.	3.5	155
57	Derivative-Free Filter Simulated Annealing Method for Constrained Continuous Global Optimization. Journal of Global Optimization, 2006, 35, 521-549.	1.1	197
58	Heuristic pattern search and its hybridization with simulated annealing for nonlinear global optimization. Optimization Methods and Software, 2004, 19, 291-308.	1.6	65
59	Minimizing multimodal functions by simplex coding genetic algorithm. Optimization Methods and Software, 2003, 18, 265-282.	1.6	55
60	Simplex Coding Genetic Algorithm for the Global Optimization of Nonlinear Functions. , 2003, , 135-140.		10
61	Minimizing multimodal functions by simplex coding genetic algorithm. Optimization Methods and Software, 2003, 18, 265-282.	1.6	19
62	Hybrid simulated annealing and direct search method for nonlinear unconstrained global optimization. Optimization Methods and Software, 2002, 17, 891-912.	1.6	87
63	Global sensing search for nonlinear global optimization. Journal of Global Optimization, 0, , 1.	1.1	1