Shahryar Rahnamayan

List of Publications by Year
in descending order

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85 papers	5,591 citations	346980 22 h-index	340414 39 g-index
85 all docs	85 docs citations	85 times ranked	3593 citing authors

#	Article	IF	Citations
1	Machine learning-based framework to cover optimal Pareto-front in many-objective optimization. Complex & Intelligent Systems, 2022, 8, 5287-5308.	4.0	8
2	A comprehensive investigation on novel center-based sampling for large-scale global optimization. Swarm and Evolutionary Computation, 2022, 73, 101105.	4.5	5
3	Reference-point-based multi-objective optimization algorithm with opposition-based voting scheme for multi-label feature selection. Information Sciences, 2021, 547, 1-17.	4.0	24
4	A novel binary many-objective feature selection algorithm for multi-label data classification. International Journal of Machine Learning and Cybernetics, 2021, 12, 2041-2057.	2.3	6
5	Selection, Visualization, and Interpretation of Deep Features in Lung Adenocarcinoma and Squamous Cell Carcinoma. American Journal of Pathology, 2021, 191, 2172-2183.	1.9	9
6	One-array Differential Evolution Algorithm with a Novel Replacement Strategy for Numerical Optimization. , 2020, , .		3
7	Evolving Feedforward Neural Networks Using a Quasi-Opposition-Based Differential Evolution for Data Classification. , 2020, , .		11
8	Enhancing SHADE and L-SHADE Algorithms Using Ordered Mutation. , 2020, , .		3
9	Enhancing LQR Controller Using Optimized Real-time System by GDE3 and NSGA-II Algorithms and Comparing with Conventional Method. , 2019, , .		7
10	Improving SHADE with Center-based Mutation for Large-scale Optimization. , 2019, , .		8
11	A Many-objective Feature Selection Algorithm for Multi-label Classification Based on Computational Complexity of Features. , 2019, , .		9
12	Tackling Deceptive Optimization Problems Using Opposition-based DE with Center-based Latin Hypercube Initialization. , 2019, , .		13
13	Large-scale Optimization Using Center-based Differential Evolution with Dynamic Mutation Scheme. , 2019, , .		6
14	Opposition-Based Multi-objective Binary Differential Evolution for Multi-label Feature Selection. Lecture Notes in Computer Science, 2019, , 553-564.	1.0	11
15	Incremental cooperative coevolution for large-scale global optimization. Soft Computing, 2018, 22, 2045-2064.	2.1	16
16	Opposition based learning: A literature review. Swarm and Evolutionary Computation, 2018, 39, 1-23.	4.5	250
17	Length Scale-Based Differential Evolution. , 2018, , .		1
18	Multilevel framework for large-scale global optimization. Soft Computing, 2017, 21, 4111-4140.	2.1	29

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19	A new cuckoo search algorithm with hybrid strategies for flow shop scheduling problems. Soft Computing, 2017, 21, 4297-4307.	2.1	57
20	Randomly attracted firefly algorithm with neighborhood search and dynamic parameter adjustment mechanism. Soft Computing, 2017, 21, 5325-5339.	2.1	86
21	Analyzing effects of ordering vectors in mutation schemes on performance of Differential Evolution. , 2017, , .		4
22	Schematic study on interaction and imbalance effects of variables for Large-Scale Optimization. , 2017, , .		2
23	Micro-differential evolution: Diversity enhancement and a comparative study. Applied Soft Computing Journal, 2017, 52, 812-833.	4.1	23
24	Opposition-based ensemble micro-differential evolution. , 2017, , .		2
25	Learning opposites using neural networks. , 2016, , .		4
26	Center-based initialization of cooperative co-evolutionary algorithm for large-scale optimization. , 2016, , .		19
27	Partial opposition-based learning using current best candidate solution. , 2016, , .		4
28	Exploration enhancement in ensemble micro-differential evolution. , 2016, , .		6
29	Effects of centralized population initialization in differential evolution. , 2016, , .		4
30	Using opposition-based learning to enhance differential evolution: A comparative study. , 2016, , .		16
31	Firefly algorithm with random attraction. International Journal of Bio-Inspired Computation, 2016, 8, 33.	0.6	159
32	Maintaining Diversity in The Bounded Pareto-Set. , 2016, , .		1
33	Gaussian bare-bones artificial bee colony algorithm. Soft Computing, 2016, 20, 907-924.	2.1	69
34	A modified cuckoo search algorithm for flow shop scheduling problem with blocking. , 2015, , .		5
35	Metaheuristics in large-scale global continues optimization: A survey. Information Sciences, 2015, 295, 407-428.	4.0	347
36	Heterogeneous Differential Evolution for Numerical Optimization. Scientific World Journal, The, 2014, 2014, 1-7.	0.8	5

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37	Centroid Opposition-Based Differential Evolution. International Journal of Applied Metaheuristic Computing, 2014, 5, 1-25.	0.5	13
38	Improved differential evolution with adaptive opposition strategy. , 2014, , .		7
39	Fuzzy Adaptive Cruise Control system with speed sign detection capability. , 2014, , .		8
40	MDE: Differential evolution with merit-based mutation strategy. , 2014, , .		0
41	Finding optimal transformation function for image thresholding using genetic programming. , 2014, , .		0
42	Micro-differential evolution with vectorized random mutation factor. , 2014, , .		16
43	Type-II opposition-based differential evolution. , 2014, , .		15
44	Computing opposition by involving entire population. , 2014, , .		38
45	Multi-strategy ensemble artificial bee colony algorithm. Information Sciences, 2014, 279, 587-603.	4.0	222
46	Enhancing differential evolution with role assignment scheme. Soft Computing, 2014, 18, 2209-2225.	2.1	24
47	MODEL: Multi-objective differential evolution with leadership enhancement. , 2014, , .		1
48	Rotation-Based Learning: A Novel Extension of Opposition-Based Learning. Lecture Notes in Computer Science, 2014, , 511-522.	1.0	7
49	Diversity enhanced particle swarm optimization with neighborhood search. Information Sciences, 2013, 223, 119-135.	4.0	342
50	Gaussian Bare-Bones Differential Evolution. IEEE Transactions on Cybernetics, 2013, 43, 634-647.	6.2	346
51	Parallel differential evolution with self-adapting control parameters and generalized opposition-based learning for solving high-dimensional optimization problems. Journal of Parallel and Distributed Computing, 2013, 73, 62-73.	2.7	104
52	Generalised opposition-based differential evolution: an experimental study. International Journal of Computer Applications in Technology, 2012, 43, 311.	0.3	12
53	An intuitive distance-based explanation of opposition-based sampling. Applied Soft Computing Journal, 2012, 12, 2828-2839.	4.1	55
54	OGDE3: Opposition-Based Third Generalized Differential Evolution. Journal of Advanced Computational Intelligence and Intelligent Informatics, 2012, 16, 469-480.	0.5	3

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55	Eye illusion enhancement using interactive Differential Evolution. , 2011, , .		8
56	Opposition-based Differential Evolution with protective generation jumping. , 2011, , .		12
57	Metamodel-Based Optimization for Problems With Expensive Objective and Constraint Functions. Journal of Mechanical Design, Transactions of the ASME, 2011, 133, .	1.7	36
58	Improving comprehensive learning particle swarm optimiser using generalised opposition-based learning. International Journal of Modelling, Identification and Control, 2011, 14, 310.	0.2	15
59	Enhanced opposition-based differential evolution for solving high-dimensional continuous optimization problems. Soft Computing, 2011, 15, 2127-2140.	2.1	180
60	Enhancing particle swarm optimization using generalized opposition-based learning. Information Sciences, 2011, 181, 4699-4714.	4.0	385
61	Enhanced Differential Evolution using center-based sampling. , 2011, , .		28
62	Adaptive Differential Evolution with variable population size for solving high-dimensional problems. , 2011, , .		20
63	Optimal design of an air-cooling system for a Li-Ion battery pack in Electric Vehicles with a genetic algorithm. , 2011, , .		18
64	Multi-resolution level set image segmentation using wavelets. , 2011, , .		5
65	Oppositional fuzzy image thresholding. , 2010, , .		6
66	Sequential DE enhanced by neighborhood search for Large Scale Global Optimization. , 2010, , .		23
67	Opposition based computing — A survey. , 2010, , .		29
68	Fighting noise with noise: DE with individuals shaking to tackle noisy problems. , 2010, , .		0
69	Differential Evolution enhanced by neighborhood search. , 2010, , .		8
70	Diversity Analysis of Opposition-Based Differential Evolutionâ€"An Experimental Study. Lecture Notes in Computer Science, 2010, , 95-102.	1.0	7
71	The Use of Opposition for Decreasing Function Evaluations in Population-Based Search. Adaptation, Learning, and Optimization, 2010, , 49-71.	0.5	0
72	A Scalability Test for Accelerated DE Using Generalized Opposition-Based Learning. , 2009, , .		28

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73	Center-based sampling for population-based algorithms. , 2009, , .		53
74	Automatic Acquisition of Image Filtering and Object Extraction Procedures from Ground-Truth Samples. Journal of Advanced Computational Intelligence and Intelligent Informatics, 2009, 13, 115-127.	0.5	2
75	Opposition versus randomness in soft computing techniques. Applied Soft Computing Journal, 2008, 8, 906-918.	4.1	282
76	Image thresholding using micro opposition-based Differential Evolution (Micro-ODE). , 2008, , .		33
77	Opposition-Based Differential Evolution. Studies in Computational Intelligence, 2008, , 155-171.	0.7	34
78	Efficiency competition on N-queen problem: DE vs. CMA-ES. Canadian Conference on Electrical and Computer Engineering, 2008, , .	0.0	5
79	Opposition-Based Differential Evolution. IEEE Transactions on Evolutionary Computation, 2008, 12, 64-79.	7.5	1,368
80	Opposition-Based Computing. Studies in Computational Intelligence, 2008, , 11-28.	0.7	16
81	Differential Evolution Via Exploiting Opposite Populations. Studies in Computational Intelligence, 2008, , 143-160.	0.7	8
82	Quasi-oppositional Differential Evolution. , 2007, , .		253
83	A novel population initialization method for accelerating evolutionary algorithms. Computers and Mathematics With Applications, 2007, 53, 1605-1614.	1.4	271
84	An Elliptical Level Set Method for Automatic TRUS Prostate Image Segmentation. , 2006, , .		10
85	Weighted Voting-Based Robust Image Thresholding. , 2006, , .		3