Mostafa Z Ali

List of Publications by Year
in descending order

58 papers	1,665 citations	393982 19 h-index	476904 29 g-index
59 all docs	59 docs citations	59 times ranked	1372 citing authors

#	Article	IF	Citations
1	Ensemble sinusoidal differential covariance matrix adaptation with Euclidean neighborhood for solving CEC2017 benchmark problems. , 2017, , .		172
2	Population topologies for particle swarm optimization and differential evolution. Swarm and Evolutionary Computation, 2018, 39, 24-35.	4.5	125
3	An ensemble sinusoidal parameter adaptation incorporated with L-SHADE for solving CEC2014 benchmark problems. , 2016, , .		124
4	Multi-population differential evolution with balanced ensemble of mutation strategies for large-scale global optimization. Applied Soft Computing Journal, 2015, 33, 304-327.	4.1	121
5	An Adaptive Multipopulation Differential Evolution With Dynamic Population Reduction. IEEE Transactions on Cybernetics, 2017, 47, 2768-2779.	6.2	106
6	An improved differential evolution algorithm using efficient adapted surrogate model for numerical optimization. Information Sciences, 2018, 451-452, 326-347.	4.0	81
7	The application of virtual reality technology in architectural pedagogy for building constructions. AEJ - Alexandria Engineering Journal, 2019, 58, 713-723.	3.4	75
8	CADE: A hybridization of Cultural Algorithm and Differential Evolution for numerical optimization. Information Sciences, 2017, 378, 215-241.	4.0	72
9	An improved class of real-coded Genetic Algorithms for numerical optimizationâœ°. Neurocomputing, 2018, 275, 155-166.	3.5	68
10	An efficient Differential Evolution algorithm for stochastic OPF based activeâ€"reactive power dispatch problem considering renewable generators. Applied Soft Computing Journal, 2019, 76, 445-458.	4.1	57
11	Ensemble of parameters in a sinusoidal differential evolution with niching-based population reduction. Swarm and Evolutionary Computation, 2018, 39, 141-156.	4.5	52
12	Computing with the social fabric: The evolution of social intelligence within a cultural framework. IEEE Computational Intelligence Magazine, 2008, 3, 18-30.	3.4	40
13	A differential evolution algorithm with success-based parameter adaptation for CEC2015 learning-based optimization. , 2015, , .		39
14	Mining the Social Fabric of Archaic Urban Centers with Cultural Algorithms. Computer, 2008, 41, 64-72.	1.2	36
15	A novel hybrid Cultural Algorithms framework with trajectory-based search for global numerical optimization. Information Sciences, 2016, 334-335, 219-249.	4.0	36
16	A balanced fuzzy Cultural Algorithm with a modified Levy flight search for real parameter optimization. Information Sciences, 2018, 447, 12-35.	4.0	33
17	An End-to-End Deep Learning Framework for Recognizing Human-to-Human Interactions Using Wi-Fi Signals. IEEE Access, 2020, 8, 197695-197710.	2.6	33
18	Embedding a social fabric component into cultural algorithms toolkit for an enhanced knowledgeâ€"driven engineering optimization. International Journal of Intelligent Computing and Cybernetics, 2008, 1, 563-597.	1.6	30

#	Article	IF	Citations
19	A modified cultural algorithm with a balanced performance for the differential evolution frameworks. Knowledge-Based Systems, 2016, 111, 73-86.	4.0	30
20	A novel class of niche hybrid Cultural Algorithms for continuous engineering optimization. Information Sciences, 2014, 267, 158-190.	4.0	28
21	Leveraged Neighborhood Restructuring in Cultural Algorithms for Solving Real-World Numerical Optimization Problems. IEEE Transactions on Evolutionary Computation, 2016, 20, 218-231.	7.5	27
22	A decremental stochastic fractal differential evolution for global numerical optimization. Information Sciences, 2016, 372, 470-491.	4.0	24
23	Early Diagnosis of Alzheimerâ€™s Disease Using Cerebral Catheter Angiogram Neuroimaging: A Novel Model Based on Deep Learning Approaches. Big Data and Cognitive Computing, 2022, 6, 2.	2.9	20
24	Cultural algorithms: a Tabu search approach for the optimization of engineering design problems. Soft Computing, 2014, 18, 1631-1644.	2.1	18
25	Robust evolution optimization at the edge of chaos: Commercialization of culture algorithms. , 2010, , .		17
26	The role of culture in the emergence of decisionâ€making roles: An example using cultural algorithms. Complexity, 2008, 13, 27-42.	0.9	15
27	Weaving the social fabric. International Journal of Intelligent Computing and Cybernetics, 2010, 3, 561-592.	1.6	14
28	Minimizing THD of multilevel inverters with optimal values of DC voltages and switching angles using LSHADE-EpSin algorithm. , 2017, , .		13
29	Differential evolution with stochastic fractal search algorithm for global numerical optimization. , 2016, , .		12
30	Real-parameter constrained optimization using enhanced quality-based cultural algorithm with novel influence and selection schemes. Information Sciences, 2021, 576, 242-273.	4.0	12
31	A Game-Based Rehabilitation System for Upper-Limb Cerebral Palsy: A Feasibility Study. Sensors, 2020, 20, 2416.	2.1	11
32	Exploring knowledge and population swarms via an agent-based Cultural Algorithms Simulation Toolkit (CAT). , 2007, , .		10
33	Cultural Algorithm with improved local search for optimization problems. , 2013, , .		10
34	Knowledge Sharing Framework: a Game-Theoretic Approach. Journal of the Knowledge Economy, 0, , 1.	2.7	10
35	Optimization Problem Solving using Predator/Prey Games and Cultural Algorithms. , 2006, , .		8
36	The social fabric approach as an approach to knowledge integration in Cultural Algorithms. , 2008, , .		8

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37	Boosting cultural algorithms with a heterogeneous layered social fabric influence function. Computational and Mathematical Organization Theory, 2012, 18, 193-210.	1.5	8
38	Multi-objective differential evolution based on normalization and improved mutation strategy. Natural Computing, 2017, 16, 661-675.	1.8	8
39	Boosting Cultural Algorithms with an incongruous layered social fabric influence function. , 2011, , .		7
40	Cluster-based differential evolution with heterogeneous influence for numerical optimization. , 2015, , .		6
41	A novel differential crossover strategy based on covariance matrix learning with Euclidean neighborhood for solving real-world problems. , 2017, , .		6
42	Cultural Algorithms: Knowledge-driven engineering optimization via weaving a social fabric as an enhanced influence function. , 2008, , .		5
43	An Intelligent Social Fabric Influence Component in Cultural Algorithms for Knowledge Learning in Dynamic Environments. , 2009, , .		5
44	Believable NPCs in serious games: HTN planning approach based on visual perception. , 2014, , .		5
45	Cultural Algorithms applied to the evolution of robotic soccer team tactics: A novel perspective. , 2014, , .		5
46	Knowledge-Based Constrained Function Optimization Using Cultural Algorithms with an Enhanced Social Influence Metaphor. Studies in Computational Intelligence, 2011, , 103-119.	0.7	4
47	Balancing search direction in cultural algorithm for enhanced global numerical optimization. , 2014, , .		3
48	Differential Evolution with Stochastic Selection for Uncertain Environments: A Smart Grid Application. , 2018, , .		3
49	Enhancing Cultural Learning under Environmental Variability Using Layered Heterogeneous Sociometry-Based Networks. , 2010, , .		2
50	Socio-cultural evolution via neighborhood-restructuring in intricate multi-layered networks. , 2012, , .		2
51	Hybrid niche Cultural Algorithm for numerical global optimization. , 2013, , .		2
52	Evaluating the Performance of "Derandomized-LShade" Algorithm on CEC 2014 Benchmark Functions. , 2017, , .		1
53	On the Optimal Synthesis of Low Sidelobe Level Linear Antenna Array with Reduced DRR. , 2019, , .		1
54	The Emergence of Cultural Hierarchical Social Networks in Complex Environments. Lecture Notes in Computer Science, 2012, , 69-78.	1.0	1

#	Article	IF	Citations
55	An Approach for Recognizing Two-Human Interactions Using Channel State Information. , 2022, , .		1
56	Sarcasm Detection in Arabic Short Text using Deep Learning. , 2022, , .		1
57	LSHADE Enhancement Using MTS-LS1. , 2017, , .		0
58	Needle detection using ultrasound Bâ€mode and power Doppler analyses. Medical Physics, 0, , .	1.6	0