## Mohammed H El-Abd

## List of Publications by Citations

Source: https://exaly.com/author-pdf/7630778/mohammed-h-el-abd-publications-by-citations.pdf

Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

57 697 14 24 g-index

70 875 ext. papers ext. citations 3.4 avg, IF L-index

#	Paper	IF	Citations
57	Performance assessment of foraging algorithms vs. evolutionary algorithms. <i>Information Sciences</i> , <b>2012</b> , 182, 243-263	7.7	95
56	An improved global-best harmony search algorithm. <i>Applied Mathematics and Computation</i> , <b>2013</b> , 222, 94-106	2.7	66
55	Global-best brain storm optimization algorithm. Swarm and Evolutionary Computation, 2017, 37, 27-44	9.8	64
54	A Taxonomy of Cooperative Search Algorithms. Lecture Notes in Computer Science, 2005, 32-41	0.9	43
53	A Taxonomy of Cooperative Particle Swarm Optimizers. <i>International Journal of Computational Intelligence Research</i> , <b>2008</b> , 4,	Ο	27
52	Generalized opposition-based artificial bee colony algorithm 2012,		26
51	Discrete cooperative particle swarm optimization for FPGA placement. <i>Applied Soft Computing Journal</i> , <b>2010</b> , 10, 284-295	7.5	25
50	Opposition-based artificial bee colony algorithm <b>2011</b> ,		24
49	Brain storm optimization algorithm with re-initialized ideas and adaptive step size 2016,		21
48	A Review of Embedded Systems Education in the Arduino Age: Lessons Learned and Future Directions. <i>International Journal of Engineering Pedagogy</i> , <b>2017</b> , 7, 79	1.3	19
47	A cooperative approach to The Artificial Bee Colony algorithm <b>2010</b> ,		18
46	Testing a Particle Swarm Optimization and Artificial Bee Colony Hybrid algorithm on the CEC13 benchmarks <b>2013</b> ,		17
45	Black-box optimization benchmarking for noiseless function testbed using particle swarm optimization <b>2009</b> ,		17
44	A Review on Swarm Intelligence and Evolutionary Algorithms for Solving the Traffic Signal Control Problem. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2020</b> , 1-16	6.1	17
43	2011,		12
42	Information exchange in multiple cooperating swarms		12
41	A cooperative particle swarm optimizer with migration of heterogeneous probabilistic models. <i>Swarm Intelligence</i> , <b>2010</b> , 4, 57-89	3	11

40	Semi-autonomous indoor firefighting UAV <b>2017</b> ,	10
39	Black-box optimization benchmarking for noiseless function testbed using artificial bee colony algorithm <b>2010</b> ,	10
38	iPlant: The greenhouse robot <b>2015</b> ,	9
37	Particle swarm optimization with varying bounds 2007,	8
36	An analytical framework for high-speed hardware particle swarm optimization. <i>Microprocessors and Microsystems</i> , <b>2020</b> , 72, 102949	8
35	Parallel hardware implementation of the brain storm optimization algorithm using FPGAs.  Microprocessors and Microsystems, <b>2020</b> , 74, 103005	8
34	An autonomous firefighting robot <b>2015</b> ,	7
33	Improving SHADE with Center-based Mutation for Large-scale Optimization 2019,	7
32	2017,	7
31	Medical Drones System for Amusement Parks <b>2017</b> ,	7
30	Preventing premature convergence in a PSO and EDA hybrid <b>2009</b> ,	7
29	Factors governing the behavior of multiple cooperating swarms 2005,	7
28	Hybrid cooperative co-evolution for the CEC15 benchmarks <b>2015</b> ,	6
27	A unified approach for assessing capstone design projects and student outcomes in computer engineering programs <b>2015</b> ,	6
26	Guidelines for Teaching an Introductory Course on the Internet of Things 2019,	5
25	The Hybrid Framework for Multi-objective Evolutionary Optimization Based on Harmony Search Algorithm. <i>Advances in Intelligent Systems and Computing</i> , <b>2019</b> , 134-142	5
24	Black-box optimization benchmarking for noiseless function testbed using an EDA and PSO hybrid <b>2009</b> ,	5
23	Discrete and continuous particle swarm optimization for FPGA placement 2009,	5

22	2016,		5
21	New feature selection paradigm based on hyper-heuristic technique. <i>Applied Mathematical Modelling</i> , <b>2021</b> , 98, 14-37	4.5	5
20	Implementation of an emergency vehicle to traffic lights communication system 2015,		4
19	V-LAB The Virtual Electric Machines Laboratory <b>2020</b> ,		4
18	Cooperative coevolution using the Brain Storm Optimization Algorithm 2016,		4
17	Multiple Cooperating Swarms for Non-Linear Function Optimization 2005, 999-1008		4
16	Local best Artificial Bee Colony algorithm with dynamic sub-populations 2013,		3
15	PSO_Bounds: A New Hybridization Technique of PSO and EDAs. <i>Studies in Computational Intelligence</i> , <b>2009</b> , 509-526	0.8	3
14	How course projects can successfully prepare engineering students for capstone design projects <b>2016</b> ,		3
13	Cooperative Co-evolutionary Metaheuristics for Solving Large-Scale TSP Art Project 2019,		3
12	On Different Stopping Criteria for Multi-objective Harmony Search Algorithms 2019,		2
11	Implementing a population-based harmony search algorithm on graphic processing units 2014,		2
10	Hybrid cooperative co-evolution for large scale optimization 2014,		2
9	Particle Swarm Optimization with Adaptive Bounds <b>2012</b> ,		2
8	Black-box optimization benchmarking for noiseless function testbed using PSO_bounds 2009,		2
7	Total Optimization of Energy Networks in Smart City by Cooperative Coevolution using Global-best Brain Storm Optimization <b>2019</b> ,		1
6	Gaussian Bare-Bones Brain Storm Optimization Algorithm <b>2019</b> ,		1
5	Guest Editorial Special Issue on Project-Based, Senior Design, and Capstone Courses in Engineering Education. <i>IEEE Transactions on Education</i> , <b>2020</b> , 63, 79-81	2.1	1

## LIST OF PUBLICATIONS

4	Enhancing the Local Search Ability of the Brain Storm Optimization Algorithm by Covariance Matrix Adaptation. <i>Adaptation, Learning, and Optimization</i> , <b>2019</b> , 105-122	0.7	1
3	Stimulating Research Projects Through Teaching a Course on the Internet of Things <b>2020</b> ,		1
2	A Comparative State-of-the-Art Constrained Metaheuristics Framework for TRUSS Optimisation on Shape and Sizing. <i>Mathematical Problems in Engineering</i> , <b>2022</b> , 2022, 1-13	1.1	1
1	The effect of different stopping criteria on multi-objective optimization algorithms. <i>Neural Computing and Applications</i> ,1	4.8	O