

# Mohammed H El-Abd

## List of Publications by Year in Descending Order

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

57 papers	697 citations	14 h-index	24 g-index
70 ext. papers	875 ext. citations	3.4 avg, IF	5.16 L-index

#	Paper	IF	Citations
57	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
56	New feature selection paradigm based on hyper-heuristic technique. <i>Applied Mathematical Modelling</i> , <b>2021</b> , 98, 14-37	4.5	5
55	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
54	An analytical framework for high-speed hardware particle swarm optimization. <i>Microprocessors and Microsystems</i> , <b>2020</b> , 72, 102949	2.4	8
53	Stimulating Research Projects Through Teaching a Course on the Internet of Things <b>2020</b> ,		1
52	V-LAB The Virtual Electric Machines Laboratory <b>2020</b> ,		4
51	Parallel hardware implementation of the brain storm optimization algorithm using FPGAs. <i>Microprocessors and Microsystems</i> , <b>2020</b> , 74, 103005	2.4	8
50	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
49	Total Optimization of Energy Networks in Smart City by Cooperative Coevolution using Global-best Brain Storm Optimization <b>2019</b> ,		1
48	Gaussian Bare-Bones Brain Storm Optimization Algorithm <b>2019</b> ,		1
47	Guidelines for Teaching an Introductory Course on the Internet of Things <b>2019</b> ,		5
46	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	0.4	5
45	Improving SHADE with Center-based Mutation for Large-scale Optimization <b>2019</b> ,		7
44	On Different Stopping Criteria for Multi-objective Harmony Search Algorithms <b>2019</b> ,		2
43	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
42	Cooperative Co-evolutionary Metaheuristics for Solving Large-Scale TSP Art Project <b>2019</b> ,		3
41	Global-best brain storm optimization algorithm. <i>Swarm and Evolutionary Computation</i> , <b>2017</b> , 37, 27-44	9.8	64

40	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
39	Semi-autonomous indoor firefighting UAV <b>2017</b> ,		10
38	<b>2017</b> ,		7
37	Medical Drones System for Amusement Parks <b>2017</b> ,		7
36	Brain storm optimization algorithm with re-initialized ideas and adaptive step size <b>2016</b> ,		21
35	Cooperative coevolution using the Brain Storm Optimization Algorithm <b>2016</b> ,		4
34	How course projects can successfully prepare engineering students for capstone design projects <b>2016</b> ,		3
33	<b>2016</b> ,		5
32	Implementation of an emergency vehicle to traffic lights communication system <b>2015</b> ,		4
31	An autonomous firefighting robot <b>2015</b> ,		7
30	iPlant: The greenhouse robot <b>2015</b> ,		9
29	Hybrid cooperative co-evolution for the CEC15 benchmarks <b>2015</b> ,		6
28	A unified approach for assessing capstone design projects and student outcomes in computer engineering programs <b>2015</b> ,		6
27	Implementing a population-based harmony search algorithm on graphic processing units <b>2014</b> ,		2
26	Hybrid cooperative co-evolution for large scale optimization <b>2014</b> ,		2
25	An improved global-best harmony search algorithm. <i>Applied Mathematics and Computation</i> , <b>2013</b> , 222, 94-106	2.7	66
24	Local best Artificial Bee Colony algorithm with dynamic sub-populations <b>2013</b> ,		3
23	Testing a Particle Swarm Optimization and Artificial Bee Colony Hybrid algorithm on the CEC13 benchmarks <b>2013</b> ,		17

22	Performance assessment of foraging algorithms vs. evolutionary algorithms. <i>Information Sciences</i> , <b>2012</b> , 182, 243-263	7.7	95
21	Generalized opposition-based artificial bee colony algorithm <b>2012</b> ,		26
20	Particle Swarm Optimization with Adaptive Bounds <b>2012</b> ,		2
19	<b>2011</b> ,		12
18	Opposition-based artificial bee colony algorithm <b>2011</b> ,		24
17	A cooperative approach to The Artificial Bee Colony algorithm <b>2010</b> ,		18
16	Black-box optimization benchmarking for noiseless function testbed using artificial bee colony algorithm <b>2010</b> ,		10
15	A cooperative particle swarm optimizer with migration of heterogeneous probabilistic models. <i>Swarm Intelligence</i> , <b>2010</b> , 4, 57-89	3	11
14	Discrete cooperative particle swarm optimization for FPGA placement. <i>Applied Soft Computing Journal</i> , <b>2010</b> , 10, 284-295	7.5	25
13	Black-box optimization benchmarking for noiseless function testbed using particle swarm optimization <b>2009</b> ,		17
12	Black-box optimization benchmarking for noiseless function testbed using an EDA and PSO hybrid <b>2009</b> ,		5
11	Black-box optimization benchmarking for noiseless function testbed using PSO_bounds <b>2009</b> ,		2
10	Preventing premature convergence in a PSO and EDA hybrid <b>2009</b> ,		7
9	Discrete and continuous particle swarm optimization for FPGA placement <b>2009</b> ,		5
8	PSO_Bounds: A New Hybridization Technique of PSO and EDAs. <i>Studies in Computational Intelligence</i> , <b>2009</b> , 509-526	0.8	3
7	A Taxonomy of Cooperative Particle Swarm Optimizers. <i>International Journal of Computational Intelligence Research</i> , <b>2008</b> , 4,	0	27
6	Particle swarm optimization with varying bounds <b>2007</b> ,		8
5	Factors governing the behavior of multiple cooperating swarms <b>2005</b> ,		7

4	A Taxonomy of Cooperative Search Algorithms. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 32-41	0.9	43
3	Multiple Cooperating Swarms for Non-Linear Function Optimization <b>2005</b> , 999-1008		4
2	Information exchange in multiple cooperating swarms		12
1	The effect of different stopping criteria on multi-objective optimization algorithms. <i>Neural Computing and Applications</i> ,1	4.8	0