

# Mohamed Abouhawwash

## List of Publications by Year in descending order

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Version: 2024-02-01

54  
papers

973  
citations

393982

19  
h-index

500791

28  
g-index

55  
all docs

55  
docs citations

55  
times ranked

441  
citing authors

#	ARTICLE	IF	CITATIONS
1	Modified firefly algorithm for workflow scheduling in cloud-edge environment. <i>Neural Computing and Applications</i> , 2022, 34, 9043-9068.	3.2	82
2	Artificial Neural Networks Hidden Unit and Weight Connection Optimization by Quasi-Reflection-Based Learning Artificial Bee Colony Algorithm. <i>IEEE Access</i> , 2021, 9, 169135-169155.	2.6	55
3	T2FL-PSO: Type-2 Fuzzy Logic-Based Particle Swarm Optimization Algorithm Used to Maximize the Lifetime of Internet of Things. <i>IEEE Access</i> , 2021, 9, 63966-63979.	2.6	47
4	Multiphase Balance of Diversity and Convergence in Multiobjective Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2019, 23, 503-513.	7.5	40
5	Secure biometric authentication with de-duplication on distributed cloud storage. <i>PeerJ Computer Science</i> , 2021, 7, e569.	2.7	38
6	Energy-aware whale optimization algorithm for real-time task scheduling in multiprocessor systems. <i>Applied Soft Computing Journal</i> , 2020, 93, 106349.	4.1	36
7	HWOA: A hybrid whale optimization algorithm with a novel local minima avoidance method for multi-level thresholding color image segmentation. <i>Expert Systems With Applications</i> , 2022, 190, 116145.	4.4	35
8	An Optimality Theory-Based Proximity Measure for Set-Based Multiobjective Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2016, 20, 515-528.	7.5	34
9	Balanced multi-objective optimization algorithm using improvement based reference points approach. <i>Swarm and Evolutionary Computation</i> , 2021, 60, 100791.	4.5	34
10	Detection and classification of multiple power quality disturbances in Microgrid network using probabilistic based intelligent classifier. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 47, 101470.	1.7	33
11	EA-MSCA: An effective energy-aware multi-objective modified sine-cosine algorithm for real-time task scheduling in multiprocessor systems: Methods and analysis. <i>Expert Systems With Applications</i> , 2021, 173, 114699.	4.4	31
12	Multi-Objective Task Scheduling Approach for Fog Computing. <i>IEEE Access</i> , 2021, 9, 126988-127009.	2.6	27
13	Multi-Objective Evolutionary Algorithm for PET Image Reconstruction: Concept. <i>IEEE Transactions on Medical Imaging</i> , 2021, 40, 2142-2151.	5.4	27
14	Quantity and price competition in a differentiated triopoly: static and dynamic investigations. <i>Nonlinear Dynamics</i> , 2018, 91, 1963-1975.	2.7	24
15	Modified Cascade Controller Design for Unstable Processes With Large Dead Time. <i>IEEE Access</i> , 2020, 8, 157022-157036.	2.6	23
16	A smooth proximity measure for optimality in multi-objective optimization using Benson's method. <i>Computers and Operations Research</i> , 2020, 117, 104900.	2.4	23
17	Towards faster convergence of evolutionary multi-criterion optimization algorithms using Karush Kuhn Tucker optimality based local search. <i>Computers and Operations Research</i> , 2017, 79, 331-346.	2.4	22
18	Modified Flower Pollination Algorithm for Global Optimization. <i>Mathematics</i> , 2021, 9, 1661.	1.1	22

#	ARTICLE	IF	CITATIONS
19	A Simple and Effective Approach for Tackling the Permutation Flow Shop Scheduling Problem. <i>Mathematics</i> , 2021, 9, 270.	1.1	21
20	Hybrid Evolutionary Multi-Objective Optimization Algorithm for Helping Multi-Criterion Decision Makers. <i>International Journal of Management Science and Engineering Management</i> , 2021, 16, 94-106.	2.6	19
21	A novel heuristic simulation-optimization method for critical infrastructure in smart transportation systems. <i>International Journal of Communication Systems</i> , 2020, 33, e4397.	1.6	18
22	Parameters Identification of PV Triple-Diode Model Using Improved Generalized Normal Distribution Algorithm. <i>Mathematics</i> , 2021, 9, 995.	1.1	18
23	Improved Chan Algorithm Based Optimum UWB Sensor Node Localization Using Hybrid Particle Swarm Optimization. <i>IEEE Access</i> , 2022, 10, 32546-32565.	2.6	16
24	Sentimental Analysis of COVID-19 Related Messages in Social Networks by Involving an N-Gram Stacked Autoencoder Integrated in an Ensemble Learning Scheme. <i>Sensors</i> , 2021, 21, 7582.	2.1	15
25	Recent metaheuristic algorithms with genetic operators for high-dimensional knapsack instances: A comparative study. <i>Computers and Industrial Engineering</i> , 2022, 166, 107974.	3.4	15
26	A New Bivariate Modified Weibull Distribution and its Extended Distribution. <i>Journal of Statistics Applications and Probability</i> , 2018, 7, 217-231.	0.5	13
27	A Computationally Fast Convergence Measure and Implementation for Single-, Multiple-, and Many-Objective Optimization. <i>IEEE Transactions on Emerging Topics in Computational Intelligence</i> , 2017, 1, 280-293.	3.4	12
28	Reference point based evolutionary multi-objective optimization algorithms with convergence properties using KKTPM and ASF metrics. <i>Journal of Heuristics</i> , 2021, 27, 575-614.	1.1	12
29	Hybrid marine predators algorithm for image segmentation: analysis and validations. <i>Artificial Intelligence Review</i> , 2022, 55, 3315-3367.	9.7	12
30	Bivariate Exponentiated Modified Weibull Distribution. <i>Journal of Statistics Applications and Probability</i> , 2019, 8, 27-39.	0.5	12
31	A new fusion of whale optimizer algorithm with Kapur's entropy for multi-threshold image segmentation: analysis and validations. <i>Artificial Intelligence Review</i> , 2022, 55, 6389-6459.	9.7	12
32	Efficient Ranking-Based Whale Optimizer for Parameter Extraction of Three-Diode Photovoltaic Model: Analysis and Validations. <i>Energies</i> , 2021, 14, 3729.	1.6	11
33	Performance evaluation of Non-Uniform circular antenna array using integrated harmony search with Differential Evolution based Naked Mole Rat algorithm. <i>Expert Systems With Applications</i> , 2022, 189, 116146.	4.4	11
34	Photovoltaic Thermal Collectors Integrated with Phase Change Materials: A Comprehensive Analysis. <i>Electronics (Switzerland)</i> , 2022, 11, 337.	1.8	11
35	Game theoretical approach for load balancing using SGMLB model in cloud environment. <i>PLoS ONE</i> , 2020, 15, e0231708.	1.1	10
36	An efficient post-processing adaptive filtering technique to rectifying the flickering effects. <i>PLoS ONE</i> , 2021, 16, e0250959.	1.1	10

#	ARTICLE	IF	CITATIONS
37	Improving the Maximum Power Extraction from Wind Turbines Using a Second-Generation CRONE Controller. <i>Energies</i> , 2022, 15, 3644.	1.6	10
38	A Local Search-Based Generalized Normal Distribution Algorithm for Permutation Flow Shop Scheduling. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4837.	1.3	9
39	Multi-population and dynamic-iterative cuckoo search algorithm for linear antenna array synthesis. <i>Applied Soft Computing Journal</i> , 2021, 113, 108004.	4.1	9
40	Towards a Better Balance of Diversity and Convergence in NSGA-III: First Results. <i>Lecture Notes in Computer Science</i> , 2017, , 545-559.	1.0	6
41	Towards a Better Diversity of Evolutionary Multi-Criterion Optimization Algorithms using Local Searches. , 2016, , .		5
42	Design and processor in the loop implementation of an improved control for IM driven solar PV fed water pumping system. <i>Scientific Reports</i> , 2022, 12, 4688.	1.6	5
43	An Intelligent Human Age and Gender Forecasting Framework Using Deep Learning Algorithms. <i>Applied Artificial Intelligence</i> , 2022, 36, .	2.0	5
44	Recent Meta-Heuristic Algorithms with a Novel Premature Coverage Method for Determining the Parameters of PV Cells and Modules. <i>Electronics (Switzerland)</i> , 2021, 10, 1846.	1.8	4
45	Enhancement of the Evaporation and Condensation Processes of a Solar Still with an Ultrasound Cotton Tent and a Thermoelectric Cooling Chamber. <i>Electronics (Switzerland)</i> , 2022, 11, 284.	1.8	4
46	Comparative analysis of magnetic induction based communication techniques for wireless underground sensor networks. <i>PeerJ Computer Science</i> , 2022, 8, e789.	2.7	4
47	Speed Control of a Multi-Motor System Based on Fuzzy Neural Model Reference Method. <i>Actuators</i> , 2022, 11, 123.	1.2	4
48	Evolutionary Multi-objective Optimization Using Benson's Karush-Kuhn-Tucker Proximity Measure. <i>Lecture Notes in Computer Science</i> , 2019, , 27-38.	1.0	3
49	Operating of Gasoline Engine Using Naphtha and Octane Boosters from Waste as Fuel Additives. <i>Sustainability</i> , 2021, 13, 13019.	1.6	3
50	Karush-Kuhn-Tucker Proximity Measure for Multi-Objective Optimization Based on Numerical Gradients. , 2016, , .		2
51	A Risk Assessment Model for Cyber-Physical Water and Wastewater Systems: Towards Sustainable Development. <i>Sustainability</i> , 2022, 14, 4480.	1.6	2
52	Utilization of additive from waste products with gasoline fuel to operate spark ignition engine. <i>Scientific Reports</i> , 2022, 12, 7714.	1.6	2
53	Call for Special Issue Papers: Sustainable Solutions for Internet of Things Using Artificial Intelligence and Blockchain in Future Networks. <i>Acta Informatica Pragensia</i> , 2022, 11, 145-148.	0.7	0
54	A Novel Edge-Based Trust Management System for the Smart City Environment Using Eigenvector Analysis. <i>Journal of Healthcare Engineering</i> , 2022, 2022, 1-10.	1.1	0