Mohamed Abouhawwash

List of Publications by Year
in descending order

54 papers	973 citations	394286 19 h-index	501076 28 g-index
55 all docs	55 docs citations	55 times ranked	441 citing authors

#	Article	IF	Citations
1	Hybrid marine predators algorithm for image segmentation: analysis and validations. Artificial Intelligence Review, 2022, 55, 3315-3367.	9.7	12
2	Performance evaluation of Non-Uniform circular antenna array using integrated harmony search with Differential Evolution based Naked Mole Rat algorithm. Expert Systems With Applications, 2022, 189, 116146.	4.4	11
3	HWOA: A hybrid whale optimization algorithm with a novel local minima avoidance method for multi-level thresholding color image segmentation. Expert Systems With Applications, 2022, 190, 116145.	4.4	35
4	Enhancement of the Evaporation and Condensation Processes of a Solar Still with an Ultrasound Cotton Tent and a Thermoelectric Cooling Chamber. Electronics (Switzerland), 2022, 11, 284.	1.8	4
5	Photovoltaic Thermal Collectors Integrated with Phase Change Materials: A Comprehensive Analysis. Electronics (Switzerland), 2022, 11, 337.	1.8	11
6	Comparative analysis of magnetic induction based communication techniques for wireless underground sensor networks. PeerJ Computer Science, 2022, 8, e789.	2.7	4
7	Modified firefly algorithm for workflow scheduling in cloud-edge environment. Neural Computing and Applications, 2022, 34, 9043-9068.	3.2	82
8	Recent metaheuristic algorithms with genetic operators for high-dimensional knapsack instances: A comparative study. Computers and Industrial Engineering, 2022, 166, 107974.	3.4	15
9	Improved Chan Algorithm Based Optimum UWB Sensor Node Localization Using Hybrid Particle Swarm Optimization. IEEE Access, 2022, 10, 32546-32565.	2.6	16
10	A new fusion of whale optimizer algorithm with Kapur's entropy for multi-threshold image segmentation: analysis and validations. Artificial Intelligence Review, 2022, 55, 6389-6459.	9.7	12
11	Design and processor in the loop implementation of an improved control for IM driven solar PV fed water pumping system. Scientific Reports, 2022, 12, 4688.	1.6	5
12	Call for Special Issue Papers: Sustainable Solutions for Internet of Things Using Artificial Intelligence and Blockchain in Future Networks. Acta Informatica Pragensia, 2022, 11, 145-148.	0.7	0
13	A Risk Assessment Model for Cyber-Physical Water and Wastewater Systems: Towards Sustainable Development. Sustainability, 2022, 14, 4480.	1.6	2
14	Utilization of additive from waste products with gasoline fuel to operate spark ignition engine. Scientific Reports, 2022, 12, 7714.	1.6	2
15	Speed Control of a Multi-Motor System Based on Fuzzy Neural Model Reference Method. Actuators, 2022, 11, 123.	1.2	4
16	Improving the Maximum Power Extraction from Wind Turbines Using a Second-Generation CRONE Controller. Energies, 2022, 15, 3644.	1.6	10
17	A Novel Edge-Based Trust Management System for the Smart City Environment Using Eigenvector Analysis. Journal of Healthcare Engineering, 2022, 2022, 1-10.	1.1	0
18	An Intelligent Human Age and Gender Forecasting Framework Using Deep Learning Algorithms. Applied Artificial Intelligence, 2022, 36, .	2.0	5

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19	Balanced multi-objective optimization algorithm using improvement based reference points approach. Swarm and Evolutionary Computation, 2021, 60, 100791.	4.5	34
20	A Simple and Effective Approach for Tackling the Permutation Flow Shop Scheduling Problem. Mathematics, 2021, 9, 270.	1.1	21
21	Multi-Objective Task Scheduling Approach for Fog Computing. IEEE Access, 2021, 9, 126988-127009.	2.6	27
22	Hybrid Evolutionary Multi-Objective Optimization Algorithm for Helping Multi-Criterion Decision Makers. International Journal of Management Science and Engineering Management, 2021, 16, 94-106.	2.6	19
23	Reference point based evolutionary multi-objective optimization algorithms with convergence properties using KKTPM and ASF metrics. Journal of Heuristics, 2021, 27, 575-614.	1.1	12
24	Parameters Identification of PV Triple-Diode Model Using Improved Generalized Normal Distribution Algorithm. Mathematics, 2021, 9, 995.	1.1	18
25	An efficient post-processing adaptive filtering technique to rectifying the flickering effects. PLoS ONE, 2021, 16, e0250959.	1.1	10
26	A Local Search-Based Generalized Normal Distribution Algorithm for Permutation Flow Shop Scheduling. Applied Sciences (Switzerland), 2021, 11, 4837.	1.3	9
27	Efficient Ranking-Based Whale Optimizer for Parameter Extraction of Three-Diode Photovoltaic Model: Analysis and Validations. Energies, 2021, 14, 3729.	1.6	11
28	Recent Meta-Heuristic Algorithms with a Novel Premature Covergence Method for Determining the Parameters of PV Cells and Modules. Electronics (Switzerland), 2021, 10, 1846.	1.8	4
29	EA-MSCA: An effective energy-aware multi-objective modified sine-cosine algorithm for real-time task scheduling in multiprocessor systems: Methods and analysis. Expert Systems With Applications, 2021, 173, 114699.	4.4	31
30	Modified Flower Pollination Algorithm for Global Optimization. Mathematics, 2021, 9, 1661.	1.1	22
31	Secure biometric authentication with de-duplication on distributed cloud storage. PeerJ Computer Science, 2021, 7, e569.	2.7	38
32	Multi-Objective Evolutionary Algorithm for PET Image Reconstruction: Concept. IEEE Transactions on Medical Imaging, 2021, 40, 2142-2151.	5.4	27
33	Detection and classification of multiple power quality disturbances in Microgrid network using probabilistic based intelligent classifier. Sustainable Energy Technologies and Assessments, 2021, 47, 101470.	1.7	33
34	T2FL-PSO: Type-2 Fuzzy Logic-Based Particle Swarm Optimization Algorithm Used to Maximize the Lifetime of Internet of Things. IEEE Access, 2021, 9, 63966-63979.	2.6	47
35	Multi-population and dynamic-iterative cuckoo search algorithm for linear antenna array synthesis. Applied Soft Computing Journal, 2021, 113, 108004.	4.1	9
36	Sentimental Analysis of COVID-19 Related Messages in Social Networks by Involving an N-Gram Stacked Autoencoder Integrated in an Ensemble Learning Scheme. Sensors, 2021, 21, 7582.	2.1	15

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37	Operating of Gasoline Engine Using Naphtha and Octane Boosters from Waste as Fuel Additives. Sustainability, 2021, 13, 13019.	1.6	3
38	Artificial Neural Networks Hidden Unit and Weight Connection Optimization by Quasi-Refection-Based Learning Artificial Bee Colony Algorithm. IEEE Access, 2021, 9, 169135-169155.	2.6	55
39	Modified Cascade Controller Design for Unstable Processes With Large Dead Time. IEEE Access, 2020, 8, 157022-157036.	2.6	23
40	Energy-aware whale optimization algorithm for real-time task scheduling in multiprocessor systems. Applied Soft Computing Journal, 2020, 93, 106349.	4.1	36
41	A novel heuristic simulationâ€optimization method for critical infrastructure in smart transportation systems. International Journal of Communication Systems, 2020, 33, e4397.	1.6	18
42	A smooth proximity measure for optimality in multi-objective optimization using Bensonâ€™s method. Computers and Operations Research, 2020, 117, 104900.	2.4	23
43	Game theoretical approach for load balancing using SGMLB model in cloud environment. PLoS ONE, 2020, 15, e0231708.	1.1	10
44	Evolutionary Multi-objective Optimization Using Bensonâ€™s Karush-Kuhn-Tucker Proximity Measure. Lecture Notes in Computer Science, 2019, , 27-38.	1.0	3
45	Multiphase Balance of Diversity and Convergence in Multiobjective Optimization. IEEE Transactions on Evolutionary Computation, 2019, 23, 503-513.	7.5	40
46	Bivariate Exponentiated Modified Weibull Distribution. Journal of Statistics Applications and Probability, 2019, 8, 27-39.	0.5	12
47	Quantity and price competition in a differentiated triopoly: static and dynamic investigations. Nonlinear Dynamics, 2018, 91, 1963-1975.	2.7	24
48	A New Bivariate Modified Weibull Distribution and its Extended Distribution. Journal of Statistics Applications and Probability, 2018, 7, 217-231.	0.5	13
49	Towards faster convergence of evolutionary multi-criterion optimization algorithms using Karush Kuhn Tucker optimality based local search. Computers and Operations Research, 2017, 79, 331-346.	2.4	22
50	Towards a Better Balance of Diversity and Convergence in NSGA-III: First Results. Lecture Notes in Computer Science, 2017, , 545-559.	1.0	6
51	A Computationally Fast Convergence Measure and Implementation for Single-, Multiple-, and Many-Objective Optimization. IEEE Transactions on Emerging Topics in Computational Intelligence, 2017, 1, 280-293.	3.4	12
52	Karush-Kuhn-Tucker Proximity Measure for Multi-Objective Optimization Based on Numerical Gradients. , 2016, , .		2
53	Towards a Better Diversity of Evolutionary Multi-Criterion Optimization Algorithms using Local Searches. , 2016, , .		5
54	An Optimality Theory-Based Proximity Measure for Set-Based Multiobjective Optimization. IEEE Transactions on Evolutionary Computation, 2016, 20, 515-528.	7.5	34