Mohammed A A Al-Qaness

List of Publications by Year
in descending order

81 papers	4,299 citations	109137 35 h-index	118652 62 g-index
82 all docs	82 docs citations	82 times ranked	2703 citing authors

#	Article	IF	Citations
1	Aquila Optimizer: A novel meta-heuristic optimization algorithm. Computers and Industrial Engineering, 2021, 157, 107250.	3.4	1,209
2	Optimization Method for Forecasting Confirmed Cases of COVID-19 in China. Journal of Clinical Medicine, 2020, 9, 674.	1.0	317
3	COVID-19 image classification using deep features and fractional-order marine predators algorithm. Scientific Reports, 2020, 10, 15364.	1.6	182
4	Green internet of things using UAVs in B5G networks: A review of applications and strategies. Ad Hoc Networks, 2021, 117, 102505.	3.4	114
5	An Improved Marine Predators Algorithm With Fuzzy Entropy for Multi-Level Thresholding: Real World Example of COVID-19 CT Image Segmentation. IEEE Access, 2020, 8, 125306-125330.	2.6	98
6	Marine Predators Algorithm for Forecasting Confirmed Cases of COVID-19 in Italy, USA, Iran and Korea. International Journal of Environmental Research and Public Health, 2020, 17, 3520.	1.2	96
7	WiGeR: WiFi-Based Gesture Recognition System. ISPRS International Journal of Geo-Information, 2016, 5, 92.	1.4	89
8	Advanced Feature Extraction and Selection Approach Using Deep Learning and Aquila Optimizer for IoT Intrusion Detection System. Sensors, 2022, 22, 140.	2.1	81
9	Optimized ANFIS Model Using Aquila Optimizer for Oil Production Forecasting. Processes, 2021, 9, 1194.	1.3	75
10	COVID-19 X-ray images classification based on enhanced fractional-order cuckoo search optimizer using heavy-tailed distributions. Applied Soft Computing Journal, 2021, 101, 107052.	4.1	74
11	Boosted ANFIS model using augmented marine predator algorithm with mutation operators for wind power forecasting. Applied Energy, 2022, 314, 118851.	5.1	74
12	Improved ANFIS model for forecasting Wuhan City Air Quality and analysis COVID-19 lockdown impacts on air quality. Environmental Research, 2021, 194, 110607.	3.7	66
13	Utilization of Random Vector Functional Link integrated with Marine Predators Algorithm for tensile behavior prediction of dissimilar friction stir welded aluminum alloy joints. Journal of Materials Research and Technology, 2020, 9, 11370-11381.	2.6	65
14	Reliable applied objective for identifying simple and detailed photovoltaic models using modern metaheuristics: Comparative study. Energy Conversion and Management, 2020, 223, 113279.	4.4	63
15	Improved Artificial Bee Colony Using Sine-Cosine Algorithm for Multi-Level Thresholding Image Segmentation. IEEE Access, 2020, 8, 26304-26315.	2.6	62
16	Efficient artificial intelligence forecasting models for COVID-19 outbreak in Russia and Brazil. Chemical Engineering Research and Design, 2021, 149, 399-409.	2.7	60
17	Modeling of drilling process of GFRP composite using a hybrid random vector functional link network/parasitism-predation algorithm. Journal of Materials Research and Technology, 2021, 14, 298-311.	2.6	58
18	IoT Intrusion Detection System Using Deep Learning and Enhanced Transient Search Optimization. IEEE Access, 2021, 9, 123448-123464.	2.6	55

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19	Boosting Arithmetic Optimization Algorithm with Genetic Algorithm Operators for Feature Selection: Case Study on Cox Proportional Hazards Model. Mathematics, 2021, 9, 2321.	1.1	55
20	An improved deep learning model for predicting daily PM2.5 concentration. Scientific Reports, 2020, 10, 20988.	1.6	53
21	Meta-heuristic optimization algorithms for solving real-world mechanical engineering design problems: a comprehensive survey, applications, comparative analysis, and results. Neural Computing and Applications, 2022, 34, 4081-4110.	3.2	51
22	A Grunwaldâ€"Letnikov based Manta ray foraging optimizer for global optimization and image segmentation. Engineering Applications of Artificial Intelligence, 2021, 98, 104105.	4.3	47
23	Improved Slime Mould Algorithm based on Firefly Algorithm for feature selection: A case study on QSAR model. Engineering With Computers, 2022, 38, 2407-2421.	3.5	47
24	A Study of the Effects of Stemming Strategies on Arabic Document Classification. IEEE Access, 2019, 7, 32664-32671.	2.6	46
25	Enhanced salp swarm algorithm based on firefly algorithm for unrelated parallel machine scheduling with setup times. Applied Mathematical Modelling, 2021, 94, 285-305.	2.2	46
26	Human activity recognition in IoHT applications using Arithmetic Optimization Algorithm and deep learning. Measurement: Journal of the International Measurement Confederation, 2022, 199, 111445.	2.5	45
27	Oil Consumption Forecasting Using Optimized Adaptive Neuro-Fuzzy Inference System Based on Sine Cosine Algorithm. IEEE Access, 2018, 6, 68394-68402.	2.6	44
28	An improved YOLO-based road traffic monitoring system. Computing (Vienna/New York), 2021, 103, 211-230.	3.2	44
29	Modified aquila optimizer for forecasting oil production. Geo-Spatial Information Science, 2022, 25, 519-535.	2.4	44
30	Adaptive Machine Learning Based Distributed Denial-of-Services Attacks Detection and Mitigation System for SDN-Enabled IoT. Sensors, 2022, 22, 2697.	2.1	42
31	Channel State Information from Pure Communication to Sense and Track Human Motion: A Survey. Sensors, 2019, 19, 3329.	2.1	41
32	Device-free human micro-activity recognition method using WiFi signals. Geo-Spatial Information Science, 2019, 22, 128-137.	2.4	41
33	Social Media Toxicity Classification Using Deep Learning: Real-World Application UK Brexit. Electronics (Switzerland), 2021, 10, 1332.	1.8	41
34	A Novel Hybrid Gradient-Based Optimizer and Grey Wolf Optimizer Feature Selection Method for Human Activity Recognition Using Smartphone Sensors. Entropy, 2021, 23, 1065.	1.1	41
35	Sine-Cosine Algorithm to Enhance Simulated Annealing for Unrelated Parallel Machine Scheduling with Setup Times. Mathematics, 2019, 7, 1120.	1.1	39
36	An Electric Fish-Based Arithmetic Optimization Algorithm for Feature Selection. Entropy, 2021, 23, 1189.	1.1	35

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37	Arabic Offensive and Hate Speech Detection Using a Cross-Corpora Multi-Task Learning Model. Informatics, 2021, 8, 69.	2.4	33
38	A Multilevel Image Thresholding Based on Hybrid Salp Swarm Algorithm and Fuzzy Entropy. IEEE Access, 2019, 7, 181405-181422.	2.6	30
39	Multi-Level Image Thresholding Based on Modified Spherical Search Optimizer and Fuzzy Entropy. Entropy, 2020, 22, 328.	1.1	29
40	Handwritten Arabic Optical Character Recognition Approach Based on Hybrid Whale Optimization Algorithm With Neighborhood Rough Set. IEEE Access, 2020, 8, 23011-23021.	2.6	29
41	Modified Harris Hawks Optimizer for Solving Machine Scheduling Problems. Symmetry, 2020, 12, 1460.	1.1	27
42	Automatic clustering method to segment COVID-19 CT images. PLoS ONE, 2021, 16, e0244416.	1.1	27
43	Modified Artificial Ecosystem-Based Optimization for Multilevel Thresholding Image Segmentation. Mathematics, 2021, 9, 2363.	1.1	26
44	A Robust and Device-Free System for the Recognition and Classification of Elderly Activities. Sensors, 2016, 16, 2043.	2.1	25
45	Modified whale optimization algorithm for solving unrelated parallel machine scheduling problems. Soft Computing, 2021, 25, 9545-9557.	2.1	25
46	Boosting arithmetic optimization algorithm by sine cosine algorithm and levy flight distribution for solving engineering optimization problems. Neural Computing and Applications, 2022, 34, 8823-8852.	3.2	25
47	A Modified Adaptive Neuro-Fuzzy Inference System Using Multi-Verse Optimizer Algorithm for Oil Consumption Forecasting. Electronics (Switzerland), 2019, 8, 1071.	1.8	23
48	Discrete fractional-order Caputo method to overcome trapping in local optima: Manta Ray Foraging Optimizer as a case study. Expert Systems With Applications, 2022, 192, 116355.	4.4	23
49	Human Activity Recognition Based on Embedded Sensor Data Fusion for the Internet of Healthcare Things. Healthcare (Switzerland), 2022, 10, 1084.	1.0	23
50	Classification of Human Motions Using Micro-Doppler Radar in the Environments with Micro-Motion Interference. Sensors, 2019, 19, 2598.	2.1	21
51	Multi-Scale Geospatial Object Detection Based on Shallow-Deep Feature Extraction. Remote Sensing, 2019, 11, 2525.	1.8	19
52	A Novel Heuristic Data Routing for Urban Vehicular *Ad Hoc* Networks. IEEE Internet of Things Journal, 2021, 8, 8976-8989.	5.5	19
53	Advance artificial time series forecasting model for oil production using neuro fuzzy-based slime mould algorithm. Journal of Petroleum Exploration and Production, 2022, 12, 383-395.	1.2	19
54	Device-Free Indoor Activity Recognition System. Applied Sciences (Switzerland), 2016, 6, 329.	1.3	18

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55	Meta-Learner Hybrid Models to Classify Hyperspectral Images. Remote Sensing, 2022, 14, 1038.	1.8	18
56	Modified marine predators algorithm for feature selection: case study metabolomics. Knowledge and Information Systems, 2022, 64, 261-287.	2.1	17
57	Device-Free Home Intruder Detection and Alarm System Using Wi-Fi Channel State Information. International Journal of Future Computer and Communication, 2016, 5, 180-186.	1.3	16
58	Optimized Forecasting Method for Weekly Influenza Confirmed Cases. International Journal of Environmental Research and Public Health, 2020, 17, 3510.	1.2	15
59	Cooperative meta-heuristic algorithms for global optimization problems. Expert Systems With Applications, 2021, 176, 114788.	4.4	14
60	Boosting Atomic Orbit Search Using Dynamic-Based Learning for Feature Selection. Mathematics, 2021, 9, 2786.	1.1	13
61	A Novel Text Classification Technique Using Improved Particle Swarm Optimization: A Case Study of Arabic Language. Future Internet, 2022, 14, 194.	2.4	13
62	Optimized Random Vector Functional Link network to predict oil production from Tahe oil field in China. Oil and Gas Science and Technology, 2021, 76, 3.	1.4	12
63	A Cox Proportional-Hazards Model Based on an Improved Aquila Optimizer with Whale Optimization Algorithm Operators. Mathematics, 2022, 10, 1273.	1.1	12
64	Feature Selection Model Based on Gorilla Troops Optimizer for Intrusion Detection Systems. Journal of Sensors, 2022, 2022, 1-12.	0.6	11
65	Multi-Objective Resource Allocation Scheme for D2D Multicast with QoS Guarantees in Cellular Networks. Applied Sciences (Switzerland), 2016, 6, 274.	1.3	9
66	A Resource Allocation Scheme for Multi-D2D Communications Underlying Cellular Networks with Multi-Subcarrier Reusing. Applied Sciences (Switzerland), 2017, 7, 148.	1.3	9
67	Efficient Feature Representation Based on the Effect of Words Frequency for Arabic Documents Classification. , 2018, , .		9
68	Automatic Superpixel-Based Clustering for Color Image Segmentation Using q-Generalized Pareto Distribution under Linear Normalization and Hunger Games Search. Mathematics, 2021, 9, 2383.	1.1	9
69	Resource-Aware Network Topology Management Framework. Acta Polytechnica Hungarica, 2020, 17, 89-101.	2.5	7
70	Exploring the Effects of Transportation Supply on Mixed Land-Use at the Parcel Level. Land, 2022, 11, 797.	1.2	7
71	Phantom: Towards Vendor-Agnostic Resource Consolidation in Cloud Environments. Electronics (Switzerland), 2019, 8, 1183.	1.8	5
72	A Mobile Cloud-based eHealth Scheme. Computers, Materials and Continua, 2020, 62, 31-39.	1.5	5

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73	Bouncer: A Resource-Aware Admission Control Scheme for Cloud Services. Electronics (Switzerland), 2019, 8, 928.	1.8	4
74	Multi-scale Vehicle Localization in Underground Parking Lots by Integration of Dead Reckoning, Wi-Fi and Vision. , 2020, , .		4
75	PDTR: Probabilistic and Deterministic Tree-based Routing for Wireless Sensor Networks. Sensors, 2020, 20, 1697.	2.1	4
76	Indoor Human Activity Recognition Method Using CSI of Wireless Signals. , 2017, , .		2
77	Indoor Micro-Activity Recognition Method Using Ubiquitous WiFi Devices. , 2018, , .		1
78	Rule mining models for predicting dropout/stopout and switcher at college using satisfaction and SES features. International Journal of Management in Education, 2019, 13, 97.	0.1	1
79	A Novel Data Classification Approach Using Fuzzy Logic. , 2017, , .		0
80	Rule mining models for predicting dropout/stopout and switcher at college using satisfaction and SES features. International Journal of Management in Education, 2019, 13, 97.	0.1	0
81	Fact-Checking: Application-Awareness in Data Centre Resource Management. , 2020, , 153-164.		0