

Mohamed Abd El Aziz

List of Publications by Year in descending order

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317
papers

19,312
citations

15495

65
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18115

120
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324
all docs

324
docs citations

324
times ranked

7821
citing authors

#	ARTICLE	IF	CITATIONS
1	The Arithmetic Optimization Algorithm. Computer Methods in Applied Mechanics and Engineering, 2021, 376, 113609.	3.4	1,513
2	Aquila Optimizer: A novel meta-heuristic optimization algorithm. Computers and Industrial Engineering, 2021, 157, 107250.	3.4	1,209
3	Reptile Search Algorithm (RSA): A nature-inspired meta-heuristic optimizer. Expert Systems With Applications, 2022, 191, 116158.	4.4	693
4	Parameter estimation of photovoltaic cells using an improved chaotic whale optimization algorithm. Applied Energy, 2017, 200, 141-154.	5.1	491
5	Modeling of solar energy systems using artificial neural network: A comprehensive review. Solar Energy, 2019, 180, 622-639.	2.9	476
6	Whale Optimization Algorithm and Moth-Flame Optimization for multilevel thresholding image segmentation. Expert Systems With Applications, 2017, 83, 242-256.	4.4	449
7	Parameter identification of solar cells using artificial bee colony optimization. Energy, 2014, 72, 93-102.	4.5	375
8	An improved Opposition-Based Sine Cosine Algorithm for global optimization. Expert Systems With Applications, 2017, 90, 484-500.	4.4	325
9	Optimization Method for Forecasting Confirmed Cases of COVID-19 in China. Journal of Clinical Medicine, 2020, 9, 674.	1.0	317
10	Improved grasshopper optimization algorithm using opposition-based learning. Expert Systems With Applications, 2018, 112, 156-172.	4.4	272
11	New machine learning method for image-based diagnosis of COVID-19. PLoS ONE, 2020, 15, e0235187.	1.1	265
12	Improved salp swarm algorithm based on particle swarm optimization for feature selection. Journal of Ambient Intelligence and Humanized Computing, 2019, 10, 3155-3169.	3.3	258
13	Parameter estimation of solar cells diode models by an improved opposition-based whale optimization algorithm. Energy Conversion and Management, 2018, 171, 1843-1859.	4.4	215
14	An enhanced productivity prediction model of active solar still using artificial neural network and Harris Hawks optimizer. Applied Thermal Engineering, 2020, 170, 115020.	3.0	183
15	COVID-19 image classification using deep features and fractional-order marine predators algorithm. Scientific Reports, 2020, 10, 15364.	1.6	182
16	BEPO: A novel binary emperor penguin optimizer for automatic feature selection. Knowledge-Based Systems, 2021, 211, 106560.	4.0	165
17	Chaotic opposition-based grey-wolf optimization algorithm based on differential evolution and disruption operator for global optimization. Expert Systems With Applications, 2018, 108, 1-27.	4.4	163
18	Cross entropy based thresholding for magnetic resonance brain images using Crow Search Algorithm. Expert Systems With Applications, 2017, 79, 164-180.	4.4	162

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19	Task scheduling in cloud computing based on hybrid moth search algorithm and differential evolution. Knowledge-Based Systems, 2019, 169, 39-52.	4.0	153
20	Review on applications of particle swarm optimization in solar energy systems. International Journal of Environmental Science and Technology, 2019, 16, 1159-1170.	1.8	147
21	Boosting salp swarm algorithm by sine cosine algorithm and disrupt operator for feature selection. Expert Systems With Applications, 2020, 145, 113103.	4.4	146
22	Dynamic Harris Hawks Optimization with Mutation Mechanism for Satellite Image Segmentation. Remote Sensing, 2019, 11, 1421.	1.8	144
23	A review on meta-heuristics methods for estimating parameters of solar cells. Journal of Power Sources, 2019, 435, 126683.	4.0	138
24	A novel Black Widow Optimization algorithm for multilevel thresholding image segmentation. Expert Systems With Applications, 2021, 167, 114159.	4.4	138
25	A Multilevel Thresholding algorithm using electromagnetism optimization. Neurocomputing, 2014, 139, 357-381.	3.5	137
26	Modified cuckoo search algorithm with rough sets for feature selection. Neural Computing and Applications, 2018, 29, 925-934.	3.2	136
27	An efficient Harris hawks-inspired image segmentation method. Expert Systems With Applications, 2020, 155, 113428.	4.4	130
28	ASCA-PSO: Adaptive sine cosine optimization algorithm integrated with particle swarm for pairwise local sequence alignment. Expert Systems With Applications, 2018, 99, 56-70.	4.4	129
29	Utilization of LSTM neural network for water production forecasting of a stepped solar still with a corrugated absorber plate. Chemical Engineering Research and Design, 2021, 148, 273-282.	2.7	128
30	Forecasting gold price fluctuations using improved multilayer perceptron neural network and whale optimization algorithm. Resources Policy, 2019, 61, 250-260.	4.2	119
31	Ant colony optimization with horizontal and vertical crossover search: Fundamental visions for multi-threshold image segmentation. Expert Systems With Applications, 2021, 167, 114122.	4.4	116
32	Prediction of laser cutting parameters for polymethylmethacrylate sheets using random vector functional link network integrated with equilibrium optimizer. Journal of Intelligent Manufacturing, 2021, 32, 1377-1388.	4.4	114
33	A hyper-heuristic for improving the initial population of whale optimization algorithm. Knowledge-Based Systems, 2019, 172, 42-63.	4.0	113
34	Multilevel Thresholding Segmentation Based on Harmony Search Optimization. Journal of Applied Mathematics, 2013, 2013, 1-24.	0.4	110
35	Chaotic multi-verse optimizer-based feature selection. Neural Computing and Applications, 2019, 31, 991-1006.	3.2	110
36	Ant Lion Optimizer: A Comprehensive Survey of Its Variants and Applications. Archives of Computational Methods in Engineering, 2021, 28, 1397-1416.	6.0	110

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37	Parameters identification of photovoltaic cell models using enhanced exploratory salp chains-based approach. <i>Energy</i> , 2020, 198, 117333.	4.5	106
38	A Novel Method for Detection of Tuberculosis in Chest Radiographs Using Artificial Ecosystem-Based Optimisation of Deep Neural Network Features. <i>Symmetry</i> , 2020, 12, 1146.	1.1	102
39	An Improved Marine Predators Algorithm With Fuzzy Entropy for Multi-Level Thresholding: Real World Example of COVID-19 CT Image Segmentation. <i>IEEE Access</i> , 2020, 8, 125306-125330.	2.6	98
40	A new optimized predictive model based on political optimizer for eco-friendly MQL-turning of AISI 4340 alloy with nano-lubricants. <i>Journal of Manufacturing Processes</i> , 2021, 67, 562-578.	2.8	97
41	Marine Predators Algorithm for Forecasting Confirmed Cases of COVID-19 in Italy, USA, Iran and Korea. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 3520.	1.2	96
42	Multi-objective whale optimization algorithm for content-based image retrieval. <i>Multimedia Tools and Applications</i> , 2018, 77, 26135-26172.	2.6	95
43	Deep learning-based forecasting model for COVID-19 outbreak in Saudi Arabia. <i>Chemical Engineering Research and Design</i> , 2021, 149, 223-233.	2.7	95
44	Opposition-based moth-flame optimization improved by differential evolution for feature selection. <i>Mathematics and Computers in Simulation</i> , 2020, 168, 48-75.	2.4	93
45	Eco-friendly coffee-based colloid for performance augmentation of solar stills. <i>Chemical Engineering Research and Design</i> , 2020, 136, 259-267.	2.7	93
46	A novel approach based on hybrid vortex search algorithm and differential evolution for identifying the optimal parameters of PEM fuel cell. <i>Renewable Energy</i> , 2020, 146, 1833-1845.	4.3	92
47	An improved opposition-based marine predators algorithm for global optimization and multilevel thresholding image segmentation. <i>Knowledge-Based Systems</i> , 2021, 229, 107348.	4.0	92
48	A Chaotic Improved Artificial Bee Colony for Parameter Estimation of Photovoltaic Cells. <i>Energies</i> , 2017, 10, 865.	1.6	88
49	Optimal Planning of Renewable Energy-Integrated Distribution System Considering Uncertainties. <i>IEEE Access</i> , 2019, 7, 164887-164907.	2.6	88
50	A multi-level thresholding method for breast thermograms analysis using Dragonfly algorithm. <i>Infrared Physics and Technology</i> , 2018, 93, 346-361.	1.3	85
51	Job Scheduling in Cloud Computing Using a Modified Harris Hawks Optimization and Simulated Annealing Algorithm. <i>Computational Intelligence and Neuroscience</i> , 2020, 2020, 1-17.	1.1	85
52	Modeling of friction stir welding process using adaptive neuro-fuzzy inference system integrated with harris hawks optimizer. <i>Journal of Materials Research and Technology</i> , 2019, 8, 5882-5892.	2.6	83
53	Performance analysis of Chaotic Multi-Verse Harris Hawks Optimization: A case study on solving engineering problems. <i>Engineering Applications of Artificial Intelligence</i> , 2020, 88, 103370.	4.3	83
54	Prediction of power consumption and water productivity of seawater greenhouse system using random vector functional link network integrated with artificial ecosystem-based optimization. <i>Chemical Engineering Research and Design</i> , 2020, 144, 322-329.	2.7	82

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55	Multi-level thresholding-based grey scale image segmentation using multi-objective multi-verse optimizer. <i>Expert Systems With Applications</i> , 2019, 125, 112-129.	4.4	81
56	Advanced optimization technique for scheduling IoT tasks in cloud-fog computing environments. <i>Future Generation Computer Systems</i> , 2021, 124, 142-154.	4.9	81
57	Advanced Feature Extraction and Selection Approach Using Deep Learning and Aquila Optimizer for IoT Intrusion Detection System. <i>Sensors</i> , 2022, 22, 140.	2.1	81
58	Gradient-Based Optimizer for Parameter Extraction in Photovoltaic Models. <i>IEEE Access</i> , 2021, 9, 13403-13416.	2.6	78
59	A novel objective function with artificial ecosystem-based optimization for relieving the mismatching power loss of large-scale photovoltaic array. <i>Energy Conversion and Management</i> , 2020, 225, 113385.	4.4	77
60	Optimized ANFIS Model Using Aquila Optimizer for Oil Production Forecasting. <i>Processes</i> , 2021, 9, 1194.	1.3	75
61	COVID-19 X-ray images classification based on enhanced fractional-order cuckoo search optimizer using heavy-tailed distributions. <i>Applied Soft Computing Journal</i> , 2021, 101, 107052.	4.1	74
62	Boosted ANFIS model using augmented marine predator algorithm with mutation operators for wind power forecasting. <i>Applied Energy</i> , 2022, 314, 118851.	5.1	74
63	Noise prediction of axial piston pump based on different valve materials using a modified artificial neural network model. <i>AEJ - Alexandria Engineering Journal</i> , 2019, 58, 1077-1087.	3.4	73
64	A competitive chain-based Harris Hawks Optimizer for global optimization and multi-level image thresholding problems. <i>Applied Soft Computing Journal</i> , 2020, 95, 106347.	4.1	73
65	A new fine-tuned random vector functional link model using Hunger games search optimizer for modeling friction stir welding process of polymeric materials. <i>Journal of Materials Research and Technology</i> , 2021, 14, 1482-1493.	2.6	69
66	Improved prediction of oscillatory heat transfer coefficient for a thermoacoustic heat exchanger using modified adaptive neuro-fuzzy inference system. <i>International Journal of Refrigeration</i> , 2019, 102, 47-54.	1.8	68
67	A dynamic locality multi-objective salp swarm algorithm for feature selection. <i>Computers and Industrial Engineering</i> , 2020, 147, 106628.	3.4	68
68	Modeling ultrasonic welding of polymers using an optimized artificial intelligence model using a gradient-based optimizer. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2022, 66, 27-44.	1.3	68
69	Improved ANFIS model for forecasting Wuhan City Air Quality and analysis COVID-19 lockdown impacts on air quality. <i>Environmental Research</i> , 2021, 194, 110607.	3.7	66
70	Optimal parameter identification of triple-junction photovoltaic panel based on enhanced moth search algorithm. <i>Energy</i> , 2019, 188, 116025.	4.5	65
71	Binary Whale Optimization Algorithm for Dimensionality Reduction. <i>Mathematics</i> , 2020, 8, 1821.	1.1	65
72	Utilization of Random Vector Functional Link integrated with Marine Predators Algorithm for tensile behavior prediction of dissimilar friction stir welded aluminum alloy joints. <i>Journal of Materials Research and Technology</i> , 2020, 9, 11370-11381.	2.6	65

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73	Fractional-order calculus-based flower pollination algorithm with local search for global optimization and image segmentation. Knowledge-Based Systems, 2020, 197, 105889.	4.0	65
74	Advances in Meta-Heuristic Optimization Algorithms in Big Data Text Clustering. Electronics (Switzerland), 2021, 10, 101.	1.8	65
75	Binary Horse herd optimization algorithm with crossover operators for feature selection. Computers in Biology and Medicine, 2022, 141, 105152.	3.9	65
76	Predicting kerf quality characteristics in laser cutting of basalt fibers reinforced polymer composites using neural network and chimp optimization. AEJ - Alexandria Engineering Journal, 2022, 61, 11005-11018.	3.4	65
77	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
78	Improved Artificial Bee Colony Using Sine-Cosine Algorithm for Multi-Level Thresholding Image Segmentation. IEEE Access, 2020, 8, 26304-26315.	2.6	62
79	Boosting COVID-19 Image Classification Using MobileNetV3 and Aquila Optimizer Algorithm. Entropy, 2021, 23, 1383.	1.1	62
80	A new random vector functional link integrated with mayfly optimization algorithm for performance prediction of solar photovoltaic thermal collector combined with electrolytic hydrogen production system. Applied Thermal Engineering, 2021, 193, 117055.	3.0	61
81	Wind, Solar, and Photovoltaic Renewable Energy Systems with and without Energy Storage Optimization: A Survey of Advanced Machine Learning and Deep Learning Techniques. Energies, 2022, 15, 578.	1.6	61
82	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
83	Advanced metaheuristic optimization techniques in applications of deep neural networks: a review. Neural Computing and Applications, 2021, 33, 14079-14099.	3.2	60
84	Advanced Metaheuristic Techniques for Mechanical Design Problems: Review. Archives of Computational Methods in Engineering, 2022, 29, 695-716.	6.0	60
85	A Review of the Modification Strategies of the Nature Inspired Algorithms for Feature Selection Problem. Mathematics, 2022, 10, 464.	1.1	60
86	A comprehensive review of moth-flame optimisation: variants, hybrids, and applications. Journal of Experimental and Theoretical Artificial Intelligence, 2020, 32, 705-725.	1.8	59
87	Nature-Inspired Optimization Algorithms for Text Document Clustering – A Comprehensive Analysis. Algorithms, 2020, 13, 345.	1.2	58
88	Machine learning algorithms for improving the prediction of air injection effect on the thermohydraulic performance of shell and tube heat exchanger. Applied Thermal Engineering, 2021, 185, 116471.	3.0	58
89	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
90	EWOA-OPF: Effective Whale Optimization Algorithm to Solve Optimal Power Flow Problem. Electronics (Switzerland), 2021, 10, 2975.	1.8	58

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91	Enhanced Crow Search Algorithm for Feature Selection. Expert Systems With Applications, 2020, 159, 113572.	4.4	57
92	Improving multilayer perceptron neural network using chaotic grasshopper optimization algorithm to forecast iron ore price volatility. Resources Policy, 2020, 65, 101555.	4.2	55
93	IoT Intrusion Detection System Using Deep Learning and Enhanced Transient Search Optimization. IEEE Access, 2021, 9, 123448-123464.	2.6	55
94	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
95	Forecasting Copper Prices Using Hybrid Adaptive Neuro-Fuzzy Inference System and Genetic Algorithms. Natural Resources Research, 2019, 28, 1385-1401.	2.2	54
96	Arabic Sentiment Classification Using Convolutional Neural Network and Differential Evolution Algorithm. Computational Intelligence and Neuroscience, 2019, 2019, 1-16.	1.1	53
97	Optimal design parameters and performance optimization of thermodynamically balanced dish/Stirling concentrated solar power system using multi-objective particle swarm optimization. Applied Thermal Engineering, 2020, 178, 115539.	3.0	53
98	Migration-Based Moth-Flame Optimization Algorithm. Processes, 2021, 9, 2276.	1.3	53
99	Hybrid Grasshopper Optimization Algorithm and Differential Evolution for Multilevel Satellite Image Segmentation. Remote Sensing, 2019, 11, 1134.	1.8	52
100	Many-objectives multilevel thresholding image segmentation using Knee Evolutionary Algorithm. Expert Systems With Applications, 2019, 125, 305-316.	4.4	52
101	Utilization of Improved Machine Learning Method Based on Artificial Hummingbird Algorithm to Predict the Tribological Behavior of Cu-Al ₂ O ₃ Nanocomposites Synthesized by In Situ Method. Mathematics, 2022, 10, 1266.	1.1	52
102	Enhancing thermal performance and modeling prediction of developed pyramid solar still utilizing a modified random vector functional link. Solar Energy, 2020, 198, 399-409.	2.9	51
103	An efficient retinal blood vessel segmentation in eye fundus images by using optimized top-hat and homomorphic filtering. Computer Methods and Programs in Biomedicine, 2021, 201, 105949.	2.6	51
104	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
105	An Improved Hybrid Swarm Intelligence for Scheduling IoT Application Tasks in the Cloud. IEEE Transactions on Industrial Informatics, 2022, 18, 6264-6272.	7.2	51
106	A Novel Method for Predicting Tensile Strength of Friction Stir Welded AA6061 Aluminium Alloy Joints Based on Hybrid Random Vector Functional Link and Henry Gas Solubility Optimization. IEEE Access, 2020, 8, 79896-79907.	2.6	50
107	An efficient multi-thresholding based COVID-19 CT images segmentation approach using an improved equilibrium optimizer. Biomedical Signal Processing and Control, 2022, 73, 103401.	3.5	50
108	Intrusion Detection System for IoT Based on Deep Learning and Modified Reptile Search Algorithm. Computational Intelligence and Neuroscience, 2022, 2022, 1-15.	1.1	50

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109	Context based image segmentation using antlion optimization and sine cosine algorithm. Multimedia Tools and Applications, 2018, 77, 25761-25797.	2.6	49
110	Entropy-based imagery segmentation for breast histology using the Stochastic Fractal Search. Neurocomputing, 2018, 321, 201-215.	3.5	49
111	Predicting the performance of solar dish Stirling power plant using a hybrid random vector functional link/chimp optimization model. Solar Energy, 2021, 222, 1-17.	2.9	49
112	Block-matching algorithm based on differential evolution for motion estimation. Engineering Applications of Artificial Intelligence, 2013, 26, 488-498.	4.3	48
113	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
114	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
115	Intelligent workflow scheduling for Big Data applications in IoT cloud computing environments. Cluster Computing, 2021, 24, 2957-2976.	3.5	47
116	A Study of the Effects of Stemming Strategies on Arabic Document Classification. IEEE Access, 2019, 7, 32664-32671.	2.6	46
117	Hyper-heuristic method for multilevel thresholding image segmentation. Expert Systems With Applications, 2020, 146, 113201.	4.4	46
118	Lightning search algorithm: a comprehensive survey. Applied Intelligence, 2021, 51, 2353-2376.	3.3	46
119	An improved Henry gas solubility optimization algorithm for task scheduling in cloud computing. Artificial Intelligence Review, 2021, 54, 3599-3637.	9.7	46
120	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
121	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
122	Oil Consumption Forecasting Using Optimized Adaptive Neuro-Fuzzy Inference System Based on Sine Cosine Algorithm. IEEE Access, 2018, 6, 68394-68402.	2.6	44
123	Modified aquila optimizer for forecasting oil production. Geo-Spatial Information Science, 2022, 25, 519-535.	2.4	44
124	Prediction of biochar yield using adaptive neuro-fuzzy inference system with particle swarm optimization. , 2017, , .		43
125	A Hybrid Method of Sine Cosine Algorithm and Differential Evolution for Feature Selection. Lecture Notes in Computer Science, 2017, , 145-155.	1.0	43
126	Multi-objective Whale Optimization Algorithm for Multilevel Thresholding Segmentation. Studies in Computational Intelligence, 2018, , 23-39.	0.7	43

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127	A hybrid adaptive neuro-fuzzy inference system integrated with equilibrium optimizer algorithm for predicting the energetic performance of solar dish collector. <i>Energy</i> , 2021, 235, 121289.	4.5	43
128	Utilization of random vector functional link integrated with manta ray foraging optimization for effluent prediction of wastewater treatment plant. <i>Journal of Environmental Management</i> , 2021, 298, 113520.	3.8	43
129	Modeling of a solar-powered thermoelectric air-conditioning system using a random vector functional link network integrated with jellyfish search algorithm. <i>Case Studies in Thermal Engineering</i> , 2022, 31, 101797.	2.8	43
130	Multi-ResAtt: Multilevel Residual Network With Attention for Human Activity Recognition Using Wearable Sensors. <i>IEEE Transactions on Industrial Informatics</i> , 2023, 19, 144-152.	7.2	43
131	A hybrid Harris hawks-moth-flame optimization algorithm including fractional-order chaos maps and evolutionary population dynamics. <i>Advances in Engineering Software</i> , 2021, 154, 102973.	1.8	42
132	Enhanced Marine Predators Algorithm for identifying static and dynamic Photovoltaic models parameters. <i>Energy Conversion and Management</i> , 2021, 236, 113971.	4.4	42
133	Adaptive Machine Learning Based Distributed Denial-of-Services Attacks Detection and Mitigation System for SDN-Enabled IoT. <i>Sensors</i> , 2022, 22, 2697.	2.1	42
134	Channel State Information from Pure Communication to Sense and Track Human Motion: A Survey. <i>Sensors</i> , 2019, 19, 3329.	2.1	41
135	An opposition-based social spider optimization for feature selection. <i>Soft Computing</i> , 2019, 23, 13547-13567.	2.1	41
136	S-shaped and V-shaped gaining-sharing knowledge-based algorithm for feature selection. <i>Applied Intelligence</i> , 2022, 52, 81-112.	3.3	41
137	Social Media Toxicity Classification Using Deep Learning: Real-World Application UK Brexit. <i>Electronics (Switzerland)</i> , 2021, 10, 1332.	1.8	41
138	A Novel Hybrid Gradient-Based Optimizer and Grey Wolf Optimizer Feature Selection Method for Human Activity Recognition Using Smartphone Sensors. <i>Entropy</i> , 2021, 23, 1065.	1.1	41
139	IoT Workflow Scheduling Using Intelligent Arithmetic Optimization Algorithm in Fog Computing. <i>Computational Intelligence and Neuroscience</i> , 2021, 2021, 1-14.	1.1	40
140	Modified Spider Monkey Optimization based on Nelder-Mead method for global optimization. <i>Expert Systems With Applications</i> , 2018, 110, 264-289.	4.4	39
141	Improved multiobjective salp swarm optimization for virtual machine placement in cloud computing. <i>Human-centric Computing and Information Sciences</i> , 2019, 9, .	6.1	39
142	Sine-Cosine Algorithm to Enhance Simulated Annealing for Unrelated Parallel Machine Scheduling with Setup Times. <i>Mathematics</i> , 2019, 7, 1120.	1.1	39
143	Image segmentation by minimum cross entropy using evolutionary methods. <i>Soft Computing</i> , 2019, 23, 431-450.	2.1	38
144	Real-time epileptic seizure recognition using Bayesian genetic whale optimizer and adaptive machine learning. <i>Future Generation Computer Systems</i> , 2022, 127, 426-434.	4.9	38

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145	Opposition-based moth swarm algorithm. <i>Expert Systems With Applications</i> , 2021, 184, 115481.	4.4	38
146	Hybridizing of Whale and Moth-Flame Optimization Algorithms to Solve Diverse Scales of Optimal Power Flow Problem. <i>Electronics (Switzerland)</i> , 2022, 11, 831.	1.8	38
147	Dragonfly algorithm: a comprehensive survey of its results, variants, and applications. <i>Multimedia Tools and Applications</i> , 2021, 80, 14979-15016.	2.6	37
148	Improving Twin Support Vector Machine Based on Hybrid Swarm Optimizer for Heartbeat Classification. <i>Pattern Recognition and Image Analysis</i> , 2018, 28, 243-253.	0.6	36
149	Multiobjective big data optimization based on a hybrid salp swarm algorithm and differential evolution. <i>Applied Mathematical Modelling</i> , 2020, 80, 929-943.	2.2	36
150	Improving Adaptive Neuro-Fuzzy Inference System Based on a Modified Salp Swarm Algorithm Using Genetic Algorithm to Forecast Crude Oil Price. <i>Natural Resources Research</i> , 2020, 29, 2671-2686.	2.2	35
151	An Electric Fish-Based Arithmetic Optimization Algorithm for Feature Selection. <i>Entropy</i> , 2021, 23, 1189.	1.1	35
152	Ludo game-based metaheuristics for global and engineering optimization. <i>Applied Soft Computing Journal</i> , 2019, 84, 105723.	4.1	34
153	Social-spider optimization algorithm for improving ANFIS to predict biochar yield. , 2017, , .		33
154	A multi-leader whale optimization algorithm for global optimization and image segmentation. <i>Expert Systems With Applications</i> , 2021, 175, 114841.	4.4	33
155	Fractional-order comprehensive learning marine predators algorithm for global optimization and feature selection. <i>Knowledge-Based Systems</i> , 2022, 235, 107603.	4.0	33
156	Arabic Offensive and Hate Speech Detection Using a Cross-Corpora Multi-Task Learning Model. <i>Informatics</i> , 2021, 8, 69.	2.4	33
157	Joint Optimization of Energy-Harvesting-Powered Two-Way Relaying D2D Communication for IoT: A Rate–Energy Efficiency Tradeoff. <i>IEEE Internet of Things Journal</i> , 2020, 7, 11735-11752.	5.5	32
158	MTV-MFO: Multi-Trial Vector-Based Moth-Flame Optimization Algorithm. <i>Symmetry</i> , 2021, 13, 2388.	1.1	32
159	A Multilevel Image Thresholding Based on Hybrid Salp Swarm Algorithm and Fuzzy Entropy. <i>IEEE Access</i> , 2019, 7, 181405-181422.	2.6	30
160	Improving the segmentation of magnetic resonance brain images using the LSHADE optimization algorithm. <i>Biomedical Signal Processing and Control</i> , 2021, 64, 102259.	3.5	30
161	An improved social spider optimization algorithm based on rough sets for solving minimum number attribute reduction problem. <i>Neural Computing and Applications</i> , 2018, 30, 2441-2452.	3.2	29
162	Multi-Level Image Thresholding Based on Modified Spherical Search Optimizer and Fuzzy Entropy. <i>Entropy</i> , 2020, 22, 328.	1.1	29

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163	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
164	Quantum marine predators algorithm for addressing multilevel image segmentation. Applied Soft Computing Journal, 2021, 110, 107598.	4.1	29
165	Galaxy images classification using hybrid brain storm optimization with moth flame optimization. Journal of Astronomical Telescopes, Instruments, and Systems, 2018, 4, 1.	1.0	29
166	Improved slime mould algorithm by opposition-based learning and Levy flight distribution for global optimization and advances in real-world engineering problems. Journal of Ambient Intelligence and Humanized Computing, 2023, 14, 1163-1202.	3.3	29
167	Pneumonia Detection on Chest X-ray Images Using Ensemble of Deep Convolutional Neural Networks. Applied Sciences (Switzerland), 2022, 12, 6448.	1.3	29
168	Automatic Detection of Galaxy Type From Datasets of Galaxies Image Based on Image Retrieval Approach. Scientific Reports, 2017, 7, 4463.	1.6	28
169	Breast cancer detection from thermal images using a Grunwald-Letnikov-aided Dragonfly algorithm-based deep feature selection method. Computers in Biology and Medicine, 2022, 141, 105027.	3.9	28
170	Boosting Ant Colony Optimization with Reptile Search Algorithm for Churn Prediction. Mathematics, 2022, 10, 1031.	1.1	28
171	Automatic Data Clustering based on Hybrid Atom Search Optimization and Sine-Cosine Algorithm. , 2019, , .		27
172	Multilevel thresholding by fuzzy type II sets using evolutionary algorithms. Swarm and Evolutionary Computation, 2019, 51, 100591.	4.5	27
173	Modified Harris Hawks Optimizer for Solving Machine Scheduling Problems. Symmetry, 2020, 12, 1460.	1.1	27
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