

Seyedali Mirjalili

List of Publications by Year in descending order

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Version: 2024-02-01

355
papers

76,265
citations

4658

85
h-index

568

263
g-index

379
all docs

379
docs citations

379
times ranked

18818
citing authors

#	ARTICLE	IF	CITATIONS
1	Trustworthy and Efficient Routing Algorithm for IoT-FinTech Applications Using Nonlinear Lévy Brownian Generalized Normal Distribution Optimization. IEEE Internet of Things Journal, 2023, 10, 2215-2230.	8.7	8
2	MOMPA: Multi-objective marine predator algorithm for solving multi-objective optimization problems. Evolutionary Intelligence, 2023, 16, 169-195.	3.6	43
3	A survey on dragonfly algorithm and its applications in engineering. Evolutionary Intelligence, 2023, 16, 1-21.	3.6	11
4	A data-driven approach for linear and nonlinear damage detection using variational mode decomposition and GARCH model. Engineering With Computers, 2023, 39, 2017-2034.	6.1	3
5	An efficient approach for damage identification based on improved machine learning using PSO-SVM. Engineering With Computers, 2022, 38, 3069-3084.	6.1	51
6	Inverse problem for dynamic structural health monitoring based on slime mould algorithm. Engineering With Computers, 2022, 38, 2205-2228.	6.1	40
7	Quantum Henry gas solubility optimization algorithm for global optimization. Engineering With Computers, 2022, 38, 2329-2348.	6.1	12
8	A comprehensive survey of recent trends in deep learning for digital images augmentation. Artificial Intelligence Review, 2022, 55, 2351-2377.	15.7	91
9	Intelligent Trigonometric Particle Filter for visual tracking. ISA Transactions, 2022, 128, 460-476.	5.7	9
10	A Critical Review on Structural Health Monitoring: Definitions, Methods, and Perspectives. Archives of Computational Methods in Engineering, 2022, 29, 2209-2235.	10.2	34
11	Secure video communication using firefly optimization and visual cryptography. Artificial Intelligence Review, 2022, 55, 2997-3017.	15.7	37
12	Pneumonia detection from lung X-ray images using local search aided sine cosine algorithm based deep feature selection method. International Journal of Intelligent Systems, 2022, 37, 3777-3814.	5.7	14
13	Layout optimisation of offshore wave energy converters using a novel multi-swarm cooperative algorithm with backtracking strategy: A case study from coasts of Australia. Energy, 2022, 239, 122463.	8.8	31
14	Feature selection methods on gene expression microarray data for cancer classification: A systematic review. Computers in Biology and Medicine, 2022, 140, 105051.	7.0	65
15	Artificial hummingbird algorithm: A new bio-inspired optimizer with its engineering applications. Computer Methods in Applied Mechanics and Engineering, 2022, 388, 114194.	6.6	381
16	An enhanced moth flame optimization with mutualism scheme for function optimization. Soft Computing, 2022, 26, 2855-2882.	3.6	18
17	Multi-COVID-Net: Multi-objective optimized network for COVID-19 diagnosis from chest X-ray images. Applied Soft Computing Journal, 2022, 115, 108250.	7.2	18
18	Adaptive grey wolf optimizer. Neural Computing and Applications, 2022, 34, 7711-7731.	5.6	40

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19	Novel binary differential evolution algorithm based on Taper-shaped transfer functions for binary optimization problems. <i>Swarm and Evolutionary Computation</i> , 2022, 69, 101022.	8.1	43
20	Bayesian-based optimized deep learning model to detect COVID-19 patients using chest X-ray image data. <i>Computers in Biology and Medicine</i> , 2022, 142, 105213.	7.0	58
21	A hybrid PSO and Grey Wolf Optimization algorithm for static and dynamic crack identification. <i>Theoretical and Applied Fracture Mechanics</i> , 2022, 118, 103213.	4.7	58
22	Multi-objective learner performance-based behavior algorithm with five multi-objective real-world engineering problems. <i>Neural Computing and Applications</i> , 2022, 34, 6307-6329.	5.6	12
23	A Comprehensive Survey on the Recent Variants and Applications of Membrane-Inspired Evolutionary Algorithms. <i>Archives of Computational Methods in Engineering</i> , 2022, 29, 3041-3057.	10.2	14
24	EEG Channel Selection for Person Identification Using Binary Grey Wolf Optimizer. <i>IEEE Access</i> , 2022, 10, 10500-10513.	4.2	16
25	Truss optimization with natural frequency constraints using generalized normal distribution optimization. <i>Applied Intelligence</i> , 2022, 52, 10384-10397.	5.3	24
26	Current Studies and Applications of Shuffled Frog Leaping Algorithm: A Review. <i>Archives of Computational Methods in Engineering</i> , 2022, 29, 3459-3474.	10.2	14
27	Black hole algorithm: A comprehensive survey. <i>Applied Intelligence</i> , 2022, 52, 11892-11915.	5.3	16
28	Meta-heuristic optimization algorithms for solving real-world mechanical engineering design problems: a comprehensive survey, applications, comparative analysis, and results. <i>Neural Computing and Applications</i> , 2022, 34, 4081-4110.	5.6	51
29	A beta salp swarm algorithm meta-heuristic for inverse kinematics and optimization. <i>Applied Intelligence</i> , 2022, 52, 10493-10518.	5.3	13
30	A Novel Theoretical and Practical Methodology for Extracting the Parameters of the Single and Double Diode Photovoltaic Models. <i>IEEE Access</i> , 2022, 10, 11110-11137.	4.2	23
31	Dynamic Arithmetic Optimization Algorithm for Truss Optimization Under Natural Frequency Constraints. <i>IEEE Access</i> , 2022, 10, 16188-16208.	4.2	61
32	Particle Swarm Optimization: A Comprehensive Survey. <i>IEEE Access</i> , 2022, 10, 10031-10061.	4.2	252
33	Exergoeconomic, carbon, and water footprint analyses and optimization of a new solar-driven multigeneration system based on supercritical CO ₂ cycle and solid oxide steam electrolyzer using various phase change materials. <i>Chemical Engineering Research and Design</i> , 2022, 159, 393-421.	5.6	49
34	VecMetaPy: A vectorized framework for metaheuristic optimization in Python. <i>Advances in Engineering Software</i> , 2022, 166, 103092.	3.8	3
35	Nodes placement in wireless mesh networks using optimization approaches: a survey. <i>Neural Computing and Applications</i> , 2022, 34, 5283-5319.	5.6	22
36	A novel approach for deterioration and damage identification in building structures based on Stockwell-Transform and deep convolutional neural network. <i>Journal of Structural Integrity and Maintenance</i> , 2022, 7, 136-150.	1.5	3

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37	On the problem formulation for parameter extraction of the photovoltaic model: Novel integration of hybrid evolutionary algorithm and Levenberg Marquardt based on adaptive damping parameter formula. <i>Energy Conversion and Management</i> , 2022, 256, 115403.	9.2	17
38	An Investigation of the Policies and Crucial Sectors of Smart Cities Based on IoT Application. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 2672.	2.5	28
39	A Hybrid Dragonfly Algorithm for Efficiency Optimization of Induction Motors. <i>Sensors</i> , 2022, 22, 2594.	3.8	7
40	Hybridizing of Whale and Moth-Flame Optimization Algorithms to Solve Diverse Scales of Optimal Power Flow Problem. <i>Electronics (Switzerland)</i> , 2022, 11, 831.	3.1	38
41	Inclined planes system optimization: Theory, literature review, and state-of-the-art versions for IIR system identification. <i>Expert Systems With Applications</i> , 2022, 200, 117127.	7.6	7
42	Binary Grey Wolf Optimizer with Mutation and Adaptive K-nearest Neighbour for Feature Selection in Parkinson's Disease Diagnosis. <i>Knowledge-Based Systems</i> , 2022, 246, 108701.	7.1	27
43	Online metaheuristic algorithm selection. <i>Expert Systems With Applications</i> , 2022, 201, 117058.	7.6	6
44	An efficient photovoltaic modeling using an Adaptive Fractional-order Archimedes Optimization Algorithm: Validation with partial shading conditions. <i>Solar Energy</i> , 2022, 236, 26-50.	6.1	9
45	A hybrid Grasshopper Optimization Algorithm and Harris Hawks Optimizer for Combined Heat and Power Economic Dispatch problem. <i>Engineering Applications of Artificial Intelligence</i> , 2022, 111, 104753.	8.1	42
46	GGWO: Gaze cues learning-based grey wolf optimizer and its applications for solving engineering problems. <i>Journal of Computational Science</i> , 2022, 61, 101636.	2.9	65
47	Development of smart energy systems for communities: technologies, policies and applications. <i>Energy</i> , 2022, 248, 123540.	8.8	32
48	A ranking-based fuzzy adaptive hybrid crow search algorithm for combined heat and power economic dispatch. <i>Expert Systems With Applications</i> , 2022, 197, 116625.	7.6	19
49	Binary Simulated Normal Distribution Optimizer for feature selection: Theory and application in COVID-19 datasets. <i>Expert Systems With Applications</i> , 2022, 200, 116834.	7.6	21
50	Solving the Mesh Router Nodes Placement in Wireless Mesh Networks Using Coyote Optimization Algorithm. <i>IEEE Access</i> , 2022, 10, 52744-52759.	4.2	11
51	Novel Meta-Heuristic Algorithm for Feature Selection, Unconstrained Functions and Engineering Problems. <i>IEEE Access</i> , 2022, 10, 40536-40555.	4.2	58
52	UAV Path Planning Using Optimization Approaches: A Survey. <i>Archives of Computational Methods in Engineering</i> , 2022, 29, 4233-4284.	10.2	42
53	BCOVDOA: A Novel Binary Coronavirus Disease Optimization Algorithm for Feature Selection. <i>Knowledge-Based Systems</i> , 2022, 248, 108789.	7.1	22
54	Multi-objective scheduling of IoT-enabled smart homes for energy management based on Arithmetic Optimization Algorithm: A Node-RED and NodeMCU module-based technique. <i>Knowledge-Based Systems</i> , 2022, 247, 108762.	7.1	61

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55	Enhancing the contrast of the grey-scale image based on meta-heuristic optimization algorithm. <i>Soft Computing</i> , 2022, 26, 6293-6315.	3.6	6
56	Quaternion convolutional long short-term memory neural model with an adaptive decomposition method for wind speed forecasting: North aegean islands case studies. <i>Energy Conversion and Management</i> , 2022, 259, 115590.	9.2	34
57	Parameter extraction of single, double, and three diodes photovoltaic model based on guaranteed convergence arithmetic optimization algorithm and modified third order Newton Raphson methods. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 162, 112436.	16.4	32
58	A Chaos-Infused Moth-Flame Optimizer. <i>Arabian Journal for Science and Engineering</i> , 2022, 47, 10769-10809.	3.0	3
59	Machine Learning-Based Research for COVID-19 Detection, Diagnosis, and Prediction: A Survey. <i>SN Computer Science</i> , 2022, 3, 286.	3.6	24
60	Nonlinear marine predator algorithm: A cost-effective optimizer for fair power allocation in NOMA-VLC-B5G networks. <i>Expert Systems With Applications</i> , 2022, 203, 117395.	7.6	22
61	Circular economy application in designing sustainable medical waste management systems. <i>Environmental Science and Pollution Research</i> , 2022, 29, 79667-79668.	5.3	11
62	Efficient decoupling-assisted evolutionary/metaheuristic framework for expensive reliability-based design optimization problems. <i>Expert Systems With Applications</i> , 2022, 205, 117640.	7.6	21
63	Binary Aquila Optimizer for Selecting Effective Features from Medical Data: A COVID-19 Case Study. <i>Mathematics</i> , 2022, 10, 1929.	2.2	40
64	HGSORF: Henry Gas Solubility Optimization-based Random Forest for C-Section prediction and XAI-based cause analysis. <i>Computers in Biology and Medicine</i> , 2022, 147, 105671.	7.0	20
65	A robust FRF damage indicator combined with optimization techniques for damage assessment in complex truss structures. <i>Case Studies in Construction Materials</i> , 2022, 17, e01197.	1.7	9
66	Multi-objective Stochastic Paint Optimizer (MOSPO). <i>Neural Computing and Applications</i> , 2022, 34, 18035-18058.	5.6	22
67	The cheetah optimizer: a nature-inspired metaheuristic algorithm for large-scale optimization problems. <i>Scientific Reports</i> , 2022, 12, .	3.3	58
68	Prairie Dog Optimization Algorithm. <i>Neural Computing and Applications</i> , 2022, 34, 20017-20065.	5.6	212
69	A Multi-Objective Modified PSO for Inverse Kinematics of a 5-DOF Robotic Arm. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 7091.	2.5	20
70	Hybrid binary whale with harris hawks for feature selection. <i>Neural Computing and Applications</i> , 2022, 34, 19377-19395.	5.6	14
71	An effective multi-objective artificial hummingbird algorithm with dynamic elimination-based crowding distance for solving engineering design problems. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022, 398, 115223.	6.6	53
72	Enhanced whale optimization algorithm for medical feature selection: A COVID-19 case study. <i>Computers in Biology and Medicine</i> , 2022, 148, 105858.	7.0	117

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73	Artificial rabbits optimization: A new bio-inspired meta-heuristic algorithm for solving engineering optimization problems. <i>Engineering Applications of Artificial Intelligence</i> , 2022, 114, 105082.	8.1	206
74	Wave power forecasting using an effective decomposition-based convolutional Bi-directional model with equilibrium Nelder-Mead optimiser. <i>Energy</i> , 2022, 256, 124623.	8.8	21
75	Ant Lion Optimizer: A Comprehensive Survey of Its Variants and Applications. <i>Archives of Computational Methods in Engineering</i> , 2021, 28, 1397-1416.	10.2	110
76	A Hyper Learning Binary Dragonfly Algorithm for Feature Selection: A COVID-19 Case Study. <i>Knowledge-Based Systems</i> , 2021, 212, 106553.	7.1	112
77	Enhanced multi-verse optimizer for task scheduling in cloud computing environments. <i>Expert Systems With Applications</i> , 2021, 168, 114230.	7.6	73
78	Dynamic Salp swarm algorithm for feature selection. <i>Expert Systems With Applications</i> , 2021, 164, 113873.	7.6	133
79	OptCoNet: an optimized convolutional neural network for an automatic diagnosis of COVID-19. <i>Applied Intelligence</i> , 2021, 51, 1351-1366.	5.3	113
80	A novel Whale Optimization Algorithm integrated with Nelder-Mead simplex for multi-objective optimization problems. <i>Knowledge-Based Systems</i> , 2021, 212, 106619.	7.1	59
81	Particle Swarm Optimization Variants for Solving Geotechnical Problems: Review and Comparative Analysis. <i>Archives of Computational Methods in Engineering</i> , 2021, 28, 1871-1927.	10.2	39
82	New binary marine predators optimization algorithms for 0-1 knapsack problems. <i>Computers and Industrial Engineering</i> , 2021, 151, 106949.	6.3	29
83	General Learning Equilibrium Optimizer: A New Feature Selection Method for Biological Data Classification. <i>Applied Artificial Intelligence</i> , 2021, 35, 247-263.	3.2	36
84	A Binary Equilibrium Optimization Algorithm for 0-1 Knapsack Problems. <i>Computers and Industrial Engineering</i> , 2021, 151, 106946.	6.3	26
85	An improved grey wolf optimizer for solving engineering problems. <i>Expert Systems With Applications</i> , 2021, 166, 113917.	7.6	488
86	A Comprehensive Review of Evaluation and Fitness Measures for Evolutionary Data Clustering Algorithms for Intelligent Systems, 2021, , 23-71.	0.6	7
87	A Grey Wolf-Based Clustering Algorithm for Medical Diagnosis Problems. <i>Algorithms for Intelligent Systems</i> , 2021, , 73-87.	0.6	3
88	An Efficient Marine Predators Algorithm for Solving Multi-Objective Optimization Problems: Analysis and Validations. <i>IEEE Access</i> , 2021, 9, 42817-42844.	4.2	27
89	Identifying Critical Dimensions for Project Success in R&D Environment Using Delphi Study and Validation Techniques. <i>IEEE Access</i> , 2021, 9, 133594-133610.	4.2	1
90	Grasshopper Optimization Algorithm: Theory, Variants, and Applications. <i>IEEE Access</i> , 2021, 9, 50001-50024.	4.2	132

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91	A New Arithmetic Optimization Algorithm for Solving Real-World Multiobjective CEC-2021 Constrained Optimization Problems: Diversity Analysis and Validations. IEEE Access, 2021, 9, 84263-84295.	4.2	105
92	Advanced Ensemble Model for Solar Radiation Forecasting Using Sine Cosine Algorithm and Newton's Laws. IEEE Access, 2021, 9, 115750-115765.	4.2	45
93	Advanced Meta-Heuristics, Convolutional Neural Networks, and Feature Selectors for Efficient COVID-19 X-Ray Chest Image Classification. IEEE Access, 2021, 9, 36019-36037.	4.2	88
94	Emotion Recognition by Textual Tweets Classification Using Voting Classifier (LR-SGD). IEEE Access, 2021, 9, 6286-6295.	4.2	61
95	Vision-Based Human Detection Techniques: A Descriptive Review. IEEE Access, 2021, 9, 42724-42761.	4.2	12
96	Automatic Screening of COVID-19 Using an Optimized Generative Adversarial Network. Cognitive Computation, 2021, , 1-16.	5.2	40
97	A Comparative Study of Recent Multi-objective Metaheuristics for Solving Constrained Truss Optimisation Problems. Archives of Computational Methods in Engineering, 2021, 28, 4031-4047.	10.2	61
98	Introduction to Evolutionary Data Clustering and Its Applications. Algorithms for Intelligent Systems, 2021, , 1-21.	0.6	1
99	MOEO-EED: A multi-objective equilibrium optimizer with exploration-exploitation dominance strategy. Knowledge-Based Systems, 2021, 214, 106717.	7.1	22
100	A novel enhanced whale optimization algorithm for global optimization. Computers and Industrial Engineering, 2021, 153, 107086.	6.3	116
101	An efficient binary slime mould algorithm integrated with a novel attacking-feeding strategy for feature selection. Computers and Industrial Engineering, 2021, 153, 107078.	6.3	47
102	A bi-stage feature selection approach for COVID-19 prediction using chest CT images. Applied Intelligence, 2021, 51, 8985-9000.	5.3	67
103	A hybrid Harris hawks-moth-flame optimization algorithm including fractional-order chaos maps and evolutionary population dynamics. Advances in Engineering Software, 2021, 154, 102973.	3.8	42
104	Efficient fractional-order modified Harris hawks optimizer for proton exchange membrane fuel cell modeling. Engineering Applications of Artificial Intelligence, 2021, 100, 104193.	8.1	35
105	Minimum energy transmission forest-based geocast in software-defined wireless sensor networks. Transactions on Emerging Telecommunications Technologies, 2021, 32, e4253.	3.9	3
106	Diagnosing COVID-19 pneumonia from x-ray and CT images using deep learning and transfer learning algorithms. , 2021, , .		226
107	The Arithmetic Optimization Algorithm. Computer Methods in Applied Mechanics and Engineering, 2021, 376, 113609.	6.6	1,513
108	A deep learning-based evolutionary model for short-term wind speed forecasting: A case study of the Lillgrund offshore wind farm. Energy Conversion and Management, 2021, 236, 114002.	9.2	130

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109	Hybrid Binary Dragonfly Algorithm with Simulated Annealing for Feature Selection. SN Computer Science, 2021, 2, 295.	3.6	27
110	Formal context reduction in deriving concept hierarchies from corpora using adaptive evolutionary clustering algorithm star. Complex & Intelligent Systems, 2021, 7, 2383-2398.	6.5	37
111	Exergo-economic analysis and multi-objective multi-verse optimization of a solar/biomass-based trigeneration system using externally-fired gas turbine, organic Rankine cycle and absorption refrigeration cycle. Applied Thermal Engineering, 2021, 191, 116889.	6.0	33
112	A comprehensive survey of sine cosine algorithm: variants and applications. Artificial Intelligence Review, 2021, 54, 5469-5540.	15.7	83
113	Performance evaluation results of evolutionary clustering algorithm star for clustering heterogeneous datasets. Data in Brief, 2021, 36, 107044.	1.0	15
114	Flow Direction Algorithm (FDA): A Novel Optimization Approach for Solving Optimization Problems. Computers and Industrial Engineering, 2021, 156, 107224.	6.3	135
115	Multi-Mode Wave Energy Converter Design Optimisation Using an Improved Moth Flame Optimisation Algorithm. Energies, 2021, 14, 3737.	3.1	15
116	Artificial gorilla troops optimizer: A new nature-inspired metaheuristic algorithm for global optimization problems. International Journal of Intelligent Systems, 2021, 36, 5887-5958.	5.7	471
117	Investigating Smart City Development Based on Green Buildings, Electrical Vehicles and Feasible Indicators. Sustainability, 2021, 13, 7808.	3.2	38
118	Opposition-based Laplacian Equilibrium Optimizer with application in Image Segmentation using Multilevel Thresholding. Expert Systems With Applications, 2021, 174, 114766.	7.6	53
119	Spatial bound whale optimization algorithm: an efficient high-dimensional feature selection approach. Neural Computing and Applications, 2021, 33, 16229-16250.	5.6	33
120	Classification of Reservoir Recovery Factor for Oil and Gas Reservoirs: A Multi-Objective Feature Selection Approach. Journal of Marine Science and Engineering, 2021, 9, 888.	2.6	7
121	African vultures optimization algorithm: A new nature-inspired metaheuristic algorithm for global optimization problems. Computers and Industrial Engineering, 2021, 158, 107408.	6.3	602
122	Wind turbine power output prediction using a new hybrid neuro-evolutionary method. Energy, 2021, 229, 120617.	8.8	66
123	Using machine learning and computer vision to estimate the angular velocity of wind turbines in smart grids remotely. Energy Reports, 2021, 7, 8561-8576.	5.1	19
124	Optimization of Multilevel Inverters Using Novelty-driven Multi-verse Optimization Algorithm. , 2021, , .		0
125	Choquet fuzzy integral-based classifier ensemble technique for COVID-19 detection. Computers in Biology and Medicine, 2021, 135, 104585.	7.0	32
126	Developing a model for multi-objective optimization of open channels and labyrinth weirs: Theory and application in Isfahan Irrigation Networks. Flow Measurement and Instrumentation, 2021, 80, 101971.	2.0	12

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127	A KKM approach for inverse capacitated transportation problem in neutrosophic environment. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2021, 46, 1.	1.3	10
128	Silas: A high-performance machine learning foundation for logical reasoning and verification. <i>Expert Systems With Applications</i> , 2021, 176, 114806.	7.6	10
129	Emerging Swarm Intelligence Algorithms and Their Applications in Antenna Design: The GWO, WOA, and SSA Optimizers. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 8330.	2.5	19
130	IoT Blockchain: Harnessing the Power of Internet of Thing and Blockchain for Smart Supply Chain. <i>Sensors</i> , 2021, 21, 6048.	3.8	28
131	YUKI Algorithm and POD-RBF for Elastostatic and dynamic crack identification. <i>Journal of Computational Science</i> , 2021, 55, 101451.	2.9	54
132	AIEOU: Automata-based improved equilibrium optimizer with U-shaped transfer function for feature selection. <i>Knowledge-Based Systems</i> , 2021, 228, 107283.	7.1	44
133	Effective policies to overcome barriers in the development of smart cities. <i>Energy Research and Social Science</i> , 2021, 79, 102175.	6.4	51
134	Nonlinear-based Chaotic Harris Hawks Optimizer: Algorithm and Internet of Vehicles application. <i>Applied Soft Computing Journal</i> , 2021, 109, 107574.	7.2	54
135	A Cost-Efficient-Based Cooperative Allocation of Mining Devices and Renewable Resources Enhancing Blockchain Architecture. <i>Sustainability</i> , 2021, 13, 10382.	3.2	19
136	COVID-19 detection from lung CT-Scans using a fuzzy integral-based CNN ensemble. <i>Computers in Biology and Medicine</i> , 2021, 138, 104895.	7.0	35
137	An improved Artificial Neural Network using Arithmetic Optimization Algorithm for damage assessment in FGM composite plates. <i>Composite Structures</i> , 2021, 273, 114287.	5.8	178
138	Swarm intelligence for next-generation networks: Recent advances and applications. <i>Journal of Network and Computer Applications</i> , 2021, 191, 103141.	9.1	32
139	Discrepancy detection between actual user reviews and numeric ratings of Google App store using deep learning. <i>Expert Systems With Applications</i> , 2021, 181, 115111.	7.6	56
140	Comparison of metaheuristic optimization algorithms for solving constrained mechanical design optimization problems. <i>Expert Systems With Applications</i> , 2021, 183, 115351.	7.6	91
141	A new robust flexibility index for structural damage identification and quantification. <i>Engineering Failure Analysis</i> , 2021, 129, 105714.	4.0	17
142	Evaluation of human resource information systems using grey ordinal pairwise comparison MCDM methods. <i>Expert Systems With Applications</i> , 2021, 182, 115151.	7.6	38
143	A novel version of Cuckoo search algorithm for solving optimization problems. <i>Expert Systems With Applications</i> , 2021, 186, 115669.	7.6	95
144	Wind Speed Ensemble Forecasting Based on Deep Learning Using Adaptive Dynamic Optimization Algorithm. <i>IEEE Access</i> , 2021, 9, 125787-125804.	4.2	67

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145	Multi-objective Optimization Approaches for Design, Planning, and Management of Water Resource Systems. Springer Water, 2021, , 275-303.	0.3	4
146	Improving the Prediction of Heart Failure Patientsâ€™ Survival Using SMOTE and Effective Data Mining Techniques. IEEE Access, 2021, 9, 39707-39716.	4.2	193
147	Multi-objective equilibrium optimizer: framework and development for solving multi-objective optimization problems. Journal of Computational Design and Engineering, 2021, 9, 24-50.	3.1	31
148	Intelligent Detection of the PV Faults Based on Artificial Neural Network and Type 2 Fuzzy Systems. Energies, 2021, 14, 6584.	3.1	46
149	B-MFO: A Binary Moth-Flame Optimization for Feature Selection from Medical Datasets. Computers, 2021, 10, 136.	3.3	85
150	WOANet: Whale optimized deep neural network for the classification of COVID-19 from radiography images. Biocybernetics and Biomedical Engineering, 2021, 41, 1702-1718.	5.9	15
151	Optimization of an appointment scheduling problem for healthcare systems based on the quality of fairness service using whale optimization algorithm and NSGA-II. Scientific Reports, 2021, 11, 19816.	3.3	44
152	An extensive dataset of handwritten central Kurdish isolated characters. Data in Brief, 2021, 39, 107479.	1.0	4
153	Enhanced Jaya algorithm: A simple but efficient optimization method for constrained engineering design problems. Knowledge-Based Systems, 2021, 233, 107555.	7.1	52
154	DMFO-CD: A Discrete Moth-Flame Optimization Algorithm for Community Detection. Algorithms, 2021, 14, 314.	2.1	30
155	An Enhanced Evolutionary Student Performance Prediction Model Using Whale Optimization Algorithm Boosted with Sine-Cosine Mechanism. Applied Sciences (Switzerland), 2021, 11, 10237.	2.5	10
156	A novel four-step feature selection technique for diabetic retinopathy grading. Physical and Engineering Sciences in Medicine, 2021, 44, 1351-1366.	2.4	21
157	EWOA-OPF: Effective Whale Optimization Algorithm to Solve Optimal Power Flow Problem. Electronics (Switzerland), 2021, 10, 2975.	3.1	58
158	COVID-19 cough sound symptoms classification from scalogram image representation using deep learning models. Computers in Biology and Medicine, 2021, 139, 105020.	7.0	27
159	ANA: Ant Nesting Algorithm for Optimizing Real-World Problems. Mathematics, 2021, 9, 3111.	2.2	19
160	Development of Sustainable Energy Use with Attention to Fruitful Policy. Sustainability, 2021, 13, 13840.	3.2	6
161	An Improved Moth-Flame Optimization Algorithm with Adaptation Mechanism to Solve Numerical and Mechanical Engineering Problems. Entropy, 2021, 23, 1637.	2.2	59
162	Migration-Based Moth-Flame Optimization Algorithm. Processes, 2021, 9, 2276.	2.8	53

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163	MTV-MFO: Multi-Trial Vector-Based Moth-Flame Optimization Algorithm. <i>Symmetry</i> , 2021, 13, 2388.	2.2	32
164	Forecasting of excavation problems for high-rise building in Vietnam using planet optimization algorithm. <i>Scientific Reports</i> , 2021, 11, 23809.	3.3	18
165	An Optimistic Solver for the Mathematical Model of the Flow of Johnson Segalman Fluid on the Surface of an Infinitely Long Vertical Cylinder. <i>Materials</i> , 2021, 14, 7798.	2.9	12
166	Grasshopper Optimization Algorithm: Theory, Literature Review, and Application in Hand Posture Estimation. <i>Studies in Computational Intelligence</i> , 2020, , 107-122.	0.9	18
167	Ant Colony Optimizer: Theory, Literature Review, and Application in UAV Path Planning. <i>Studies in Computational Intelligence</i> , 2020, , 7-21.	0.9	31
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