

# Laith Mohammad Abualigah

## List of Publications by Year in descending order

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196  
papers

13,463  
citations

36303

51  
h-index

28297

105  
g-index

199  
all docs

199  
docs citations

199  
times ranked

3743  
citing authors

#	ARTICLE	IF	CITATIONS
1	A novel generalized normal distribution arithmetic optimization algorithm for global optimization and data clustering problems. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2024, 15, 389-417.	4.9	5
2	Improved slime mould algorithm by opposition-based learning and Levy flight distribution for global optimization and advances in real-world engineering problems. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2023, 14, 1163-1202.	4.9	29
3	Review and analysis for the Red Deer Algorithm. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2023, 14, 8375-8385.	4.9	16
4	Improved gradual change-based Harris Hawks optimization for real-world engineering design problems. <i>Engineering With Computers</i> , 2023, 39, 1843-1883.	6.1	7
5	A novel intelligent deep learning predictive model for meteorological drought forecasting. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2023, 14, 10441-10455.	4.9	54
6	Improved multi-core arithmetic optimization algorithm-based ensemble mutation for multidisciplinary applications. <i>Journal of Intelligent Manufacturing</i> , 2023, 34, 1833-1874.	7.3	16
7	Reinforced Learning-Based Robust Control Design for Unmanned Aerial Vehicle. <i>Arabian Journal for Science and Engineering</i> , 2023, 48, 1221-1236.	3.0	12
8	Boosted Harris Hawks gravitational force algorithm for global optimization and industrial engineering problems. <i>Journal of Intelligent Manufacturing</i> , 2023, 34, 2693-2728.	7.3	6
9	An effective control design approach based on novel enhanced aquila optimizer for automatic voltage regulator. <i>Artificial Intelligence Review</i> , 2023, 56, 1731-1762.	15.7	34
10	Selection scheme sensitivity for a hybrid Salp Swarm Algorithm: analysis and applications. <i>Engineering With Computers</i> , 2022, 38, 1149-1175.	6.1	29
11	Improved Slime Mould Algorithm based on Firefly Algorithm for feature selection: A case study on QSAR model. <i>Engineering With Computers</i> , 2022, 38, 2407-2421.	6.1	47
12	Advanced Metaheuristic Techniques for Mechanical Design Problems: Review. <i>Archives of Computational Methods in Engineering</i> , 2022, 29, 695-716.	10.2	60
13	Amended hybrid multi-verse optimizer with genetic algorithm for solving task scheduling problem in cloud computing. <i>Journal of Supercomputing</i> , 2022, 78, 740-765.	3.6	80
14	An efficient equilibrium optimizer with support vector regression for stock market prediction. <i>Neural Computing and Applications</i> , 2022, 34, 3165-3200.	5.6	32
15	Regional analytics and forecasting for most affected stock markets: The case of GCC stock markets during COVID-19 pandemic. <i>International Journal of Systems Assurance Engineering and Management</i> , 2022, 13, 1298-1308.	2.4	7
16	Reptile Search Algorithm (RSA): A nature-inspired meta-heuristic optimizer. <i>Expert Systems With Applications</i> , 2022, 191, 116158.	7.6	693
17	An improved arithmetic optimization algorithm with forced switching mechanism for global optimization problems. <i>Mathematical Biosciences and Engineering</i> , 2022, 19, 473-512.	1.9	41
18	Estimating the density of hybrid nanofluids for thermal energy application: Application of non-parametric and evolutionary polynomial regression data-intelligent techniques. <i>Measurement: Journal of the International Measurement Confederation</i> , 2022, 189, 110524.	5.0	37

#	ARTICLE	IF	CITATIONS
19	An improved chaotic image encryption algorithm using Hadoop-based MapReduce framework for massive remote sensed images in parallel IoT applications. <i>Cluster Computing</i> , 2022, 25, 999-1013.	5.0	27
20	Chaotic binary Group Search Optimizer for feature selection. <i>Expert Systems With Applications</i> , 2022, 192, 116368.	7.6	49
21	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
22	Black hole algorithm: A comprehensive survey. <i>Applied Intelligence</i> , 2022, 52, 11892-11915.	5.3	16
23	Machine Learning Technologies for Big Data Analytics. <i>Electronics (Switzerland)</i> , 2022, 11, 421.	3.1	33
24	An Efficient 5G Data Plan Approach Based on Partially Distributed Mobility Architecture. <i>Sensors</i> , 2022, 22, 349.	3.8	13
25	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
26	Wind, Solar, and Photovoltaic Renewable Energy Systems with and without Energy Storage Optimization: A Survey of Advanced Machine Learning and Deep Learning Techniques. <i>Energies</i> , 2022, 15, 578.	3.1	61
27	An enhanced Grey Wolf Optimizer based Particle Swarm Optimizer for intrusion detection system in wireless sensor networks. <i>Wireless Networks</i> , 2022, 28, 721-744.	3.0	48
28	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
29	Ebola Optimization Search Algorithm: A New Nature-Inspired Metaheuristic Optimization Algorithm. <i>IEEE Access</i> , 2022, 10, 16150-16177.	4.2	267
30	Modified marine predators algorithm for feature selection: case study metabolomics. <i>Knowledge and Information Systems</i> , 2022, 64, 261-287.	3.2	17
31	Parameterization of photovoltaic solar cell double-diode model based on improved arithmetic optimization algorithm. <i>Optik</i> , 2022, 253, 168600.	2.9	33
32	Dwarf Mongoose Optimization Algorithm. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022, 391, 114570.	6.6	409
33	An Improved Hybrid Swarm Intelligence for Scheduling IoT Application Tasks in the Cloud. <i>IEEE Transactions on Industrial Informatics</i> , 2022, 18, 6264-6272.	11.3	51
34	Early Diagnosis of Alzheimer's Disease Using Cerebral Catheter Angiogram Neuroimaging: A Novel Model Based on Deep Learning Approaches. <i>Big Data and Cognitive Computing</i> , 2022, 6, 2.	4.7	20
35	An improved remora optimization algorithm with autonomous foraging mechanism for global optimization problems. <i>Mathematical Biosciences and Engineering</i> , 2022, 19, 3994-4037.	1.9	22
36	Modified Interactive Algorithm Based on Runge Kutta Optimizer for Photovoltaic Modeling: Justification Under Partial Shading and Varied Temperature Conditions. <i>IEEE Access</i> , 2022, 10, 20793-20815.	4.2	8

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37	Enhance Teaching-Learning-Based Optimization for Tsallis-Entropy-Based Feature Selection Classification Approach. <i>Processes</i> , 2022, 10, 360.	2.8	18
38	Boosting arithmetic optimization algorithm by sine cosine algorithm and levy flight distribution for solving engineering optimization problems. <i>Neural Computing and Applications</i> , 2022, 34, 8823-8852.	5.6	25
39	Hybrid Aquila optimizer with arithmetic optimization algorithm for global optimization tasks. <i>Soft Computing</i> , 2022, 26, 4863-4881.	3.6	77
40	Hybrid Reptile Search Algorithm and Remora Optimization Algorithm for Optimization Tasks and Data Clustering. <i>Symmetry</i> , 2022, 14, 458.	2.2	30
41	Improved near-lossless technique using the Huffman coding for enhancing the quality of image compression. <i>Multimedia Tools and Applications</i> , 2022, 81, 28509-28529.	3.9	7
42	Hybrid arithmetic optimization algorithm with hunger games search for global optimization. <i>Multimedia Tools and Applications</i> , 2022, 81, 28755-28778.	3.9	25
43	Boosting Marine Predators Algorithm by Salp Swarm Algorithm for Multilevel Thresholding Image Segmentation. <i>Multimedia Tools and Applications</i> , 2022, 81, 16707-16742.	3.9	25
44	An Improved Teaching-Learning-Based Optimization Algorithm with Reinforcement Learning Strategy for Solving Optimization Problems. <i>Computational Intelligence and Neuroscience</i> , 2022, 2022, 1-24.	1.7	15
45	Radiology Imaging Scans for Early Diagnosis of Kidney Tumors: A Review of Data Analytics-Based Machine Learning and Deep Learning Approaches. <i>Big Data and Cognitive Computing</i> , 2022, 6, 29.	4.7	29
46	Improved linear density technique for segmentation in Arabic handwritten text recognition. <i>Multimedia Tools and Applications</i> , 2022, 81, 28531-28558.	3.9	1
47	Emerging Trends in Blockchain Technology and Applications: A Review and Outlook. <i>Journal of King Saud University - Computer and Information Sciences</i> , 2022, 34, 6719-6742.	3.9	42
48	An Intelligent Chimp Optimizer for Scheduling of IoT Application Tasks in Fog Computing. <i>Mathematics</i> , 2022, 10, 1100.	2.2	21
49	Boosting chameleon swarm algorithm with consumption AEO operator for global optimization and feature selection. <i>Knowledge-Based Systems</i> , 2022, 246, 108743.	7.1	33
50	A comprehensive survey of clustering algorithms: State-of-the-art machine learning applications, taxonomy, challenges, and future research prospects. <i>Engineering Applications of Artificial Intelligence</i> , 2022, 110, 104743.	8.1	239
51	Enhanced Flow Direction Arithmetic Optimization Algorithm for mathematical optimization problems with applications of data clustering. <i>Engineering Analysis With Boundary Elements</i> , 2022, 138, 13-29.	3.7	26
52	Boosted ANFIS model using augmented marine predator algorithm with mutation operators for wind power forecasting. <i>Applied Energy</i> , 2022, 314, 118851.	10.1	74
53	Machine learning in medical applications: A review of state-of-the-art methods. <i>Computers in Biology and Medicine</i> , 2022, 145, 105458.	7.0	155
54	An Improved Arithmetic Optimization Algorithm for design of a microgrid with energy storage system: Case study of El Kharga Oasis, Egypt. <i>Journal of Energy Storage</i> , 2022, 51, 104343.	8.1	29

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55	Static models for implementing photovoltaic panels characteristics under various environmental conditions using improved gradient-based optimizer. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 52, 102150.	2.7	3
56	Logarithmic spiral search based arithmetic optimization algorithm with selective mechanism and its application to functional electrical stimulation system control. <i>Soft Computing</i> , 2022, 26, 12257-12269.	3.6	20
57	An intelligent cybersecurity system for detecting fake news in social media websites. <i>Soft Computing</i> , 2022, 26, 5577-5591.	3.6	20
58	Fusion of modern meta-heuristic optimization methods using arithmetic optimization algorithm for global optimization tasks. <i>Soft Computing</i> , 2022, 26, 6749-6763.	3.6	19
59	Learning Features Using an optimized Artificial Neural Network for Breast Cancer Diagnosis. <i>SN Computer Science</i> , 2022, 3, 1.	3.6	12
60	An Improved Wild Horse Optimizer for Solving Optimization Problems. <i>Mathematics</i> , 2022, 10, 1311.	2.2	39
61	Predicting Shale Volume from Seismic Traces Using Modified Random Vector Functional Link Based on Transient Search Optimization Model: A Case Study from Netherlands North Sea. <i>Natural Resources Research</i> , 2022, 31, 1775-1791.	4.7	9
62	A generative adversarial network for synthetization of regions of interest based on digital mammograms. <i>Scientific Reports</i> , 2022, 12, 6166.	3.3	23
63	A Cox Proportional-Hazards Model Based on an Improved Aquila Optimizer with Whale Optimization Algorithm Operators. <i>Mathematics</i> , 2022, 10, 1273.	2.2	12
64	Modified Remora Optimization Algorithm for Global Optimization and Multilevel Thresholding Image Segmentation. <i>Mathematics</i> , 2022, 10, 1014.	2.2	40
65	Modified Harris Hawks Optimization Algorithm with Exploration Factor and Random Walk Strategy. <i>Computational Intelligence and Neuroscience</i> , 2022, 2022, 1-23.	1.7	5
66	Multilayer Reversible Data Hiding Based on the Difference Expansion Method Using Multilevel Thresholding of Host Images Based on the Slime Mould Algorithm. <i>Processes</i> , 2022, 10, 858.	2.8	10
67	A Hybrid Arithmetic Optimization and Golden Sine Algorithm for Solving Industrial Engineering Design Problems. <i>Mathematics</i> , 2022, 10, 1567.	2.2	22
68	Efficient text document clustering approach using multi-search Arithmetic Optimization Algorithm. <i>Knowledge-Based Systems</i> , 2022, 248, 108833.	7.1	25
69	Cooperative multi-function approach: A new strategy for autonomous ground robotics. <i>Future Generation Computer Systems</i> , 2022, 134, 361-373.	7.5	20
70	Enhanced Remora Optimization Algorithm for Solving Constrained Engineering Optimization Problems. <i>Mathematics</i> , 2022, 10, 1696.	2.2	45
71	A Normal Distributed Dwarf Mongoose Optimization Algorithm for Global Optimization and Data Clustering Applications. <i>Symmetry</i> , 2022, 14, 1021.	2.2	24
72	Opposition-Based Arithmetic Optimization Algorithm with Varying Acceleration Coefficient for Function Optimization and Control of FES System. <i>Algorithms for Intelligent Systems</i> , 2022, , 283-293.	0.6	7

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73	Aquila Optimizer Based PSO Swarm Intelligence for IoT Task Scheduling Application in Cloud Computing. <i>Studies in Computational Intelligence</i> , 2022, , 481-497.	0.9	19
74	Big Data Analysis Using Hybrid Meta-Heuristic Optimization Algorithm and MapReduce Framework. <i>Studies in Computational Intelligence</i> , 2022, , 181-223.	0.9	6
75	Metaheuristics for Parameter Estimation of Solar Photovoltaic Cells: A Comprehensive Review. <i>Studies in Computational Intelligence</i> , 2022, , 149-179.	0.9	3
76	Improved reptile search algorithm with novel mean transition mechanism for constrained industrial engineering problems. <i>Neural Computing and Applications</i> , 2022, 34, 17257-17277.	5.6	12
77	A New Stock Price Forecasting Method Using Active Deep Learning Approach. <i>Journal of Open Innovation: Technology, Market, and Complexity</i> , 2022, 8, 96.	5.2	20
78	Binary Aquila Optimizer for Selecting Effective Features from Medical Data: A COVID-19 Case Study. <i>Mathematics</i> , 2022, 10, 1929.	2.2	40
79	Dynamic Jellyfish Search Algorithm Based on Simulated Annealing and Disruption Operators for Global Optimization with Applications to Cloud Task Scheduling. <i>Mathematics</i> , 2022, 10, 1894.	2.2	9
80	Classification of Glaucoma Based on Elephant-Herding Optimization Algorithm and Deep Belief Network. <i>Electronics (Switzerland)</i> , 2022, 11, 1763.	3.1	17
81	A Novel Method for Survival Prediction of Hepatocellular Carcinoma Using Feature-Selection Techniques. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 6427.	2.5	4
82	Data Driven Model Estimation for Aerial Vehicles: A Perspective Analysis. <i>Processes</i> , 2022, 10, 1236.	2.8	14
83	Multi-objective Stochastic Paint Optimizer (MOSPO). <i>Neural Computing and Applications</i> , 2022, 34, 18035-18058.	5.6	22
84	Recent Advances in Harris Hawks Optimization: A Comparative Study and Applications. <i>Electronics (Switzerland)</i> , 2022, 11, 1919.	3.1	37
85	A Novel Method for the Classification of Butterfly Species Using Pre-Trained CNN Models. <i>Electronics (Switzerland)</i> , 2022, 11, 2016.	3.1	12
86	A Novel Text Classification Technique Using Improved Particle Swarm Optimization: A Case Study of Arabic Language. <i>Future Internet</i> , 2022, 14, 194.	3.8	13
87	Scientometric Analysis and Classification of Research Using Convolutional Neural Networks: A Case Study in Data Science and Analytics. <i>Electronics (Switzerland)</i> , 2022, 11, 2066.	3.1	23
88	Harris Hawks Optimization Algorithm: Variants and Applications. <i>Archives of Computational Methods in Engineering</i> , 2022, 29, 5579-5603.	10.2	23
89	Optimized task scheduling in cloud computing using improved multi-verse optimizer. <i>Cluster Computing</i> , 2022, 25, 4221-4232.	5.0	12
90	Computational assessment of groundwater salinity distribution within coastal multi-aquifers of Bangladesh. <i>Scientific Reports</i> , 2022, 12, .	3.3	29

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91	Prairie Dog Optimization Algorithm. <i>Neural Computing and Applications</i> , 2022, 34, 20017-20065.	5.6	212
92	Deep Reinforcement Learning for Integrated Non-Linear Control of Autonomous UAVs. <i>Processes</i> , 2022, 10, 1307.	2.8	18
93	Sine-Cosine-Barnacles Algorithm Optimizer with disruption operator for global optimization and automatic data clustering. <i>Expert Systems With Applications</i> , 2022, 207, 117993.	7.6	11
94	Implementation of bio-inspired hybrid algorithm with mutation operator for robotic path planning. <i>Journal of Parallel and Distributed Computing</i> , 2022, 169, 171-184.	4.1	21
95	Enhanced a hybrid moth-flame optimization algorithm using new selection schemes. <i>Engineering With Computers</i> , 2021, 37, 2931-2956.	6.1	47
96	An intelligent long-lived TCP based on real-time traffic regulation. <i>Multimedia Tools and Applications</i> , 2021, 80, 16763-16780.	3.9	8
97	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
98	A novel hybrid antlion optimization algorithm for multi-objective task scheduling problems in cloud computing environments. <i>Cluster Computing</i> , 2021, 24, 205-223.	5.0	208
99	Group search optimizer: a nature-inspired meta-heuristic optimization algorithm with its results, variants, and applications. <i>Neural Computing and Applications</i> , 2021, 33, 2949-2972.	5.6	124
100	Improved binary gray wolf optimizer and SVM for intrusion detection system in wireless sensor networks. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2021, 12, 1559-1576.	4.9	143
101	Lightning search algorithm: a comprehensive survey. <i>Applied Intelligence</i> , 2021, 51, 2353-2376.	5.3	46
102	A parallel hybrid krill herd algorithm for feature selection. <i>International Journal of Machine Learning and Cybernetics</i> , 2021, 12, 783-806.	3.6	33
103	A novel bat algorithm with dynamic membrane structure for optimization problems. <i>Applied Intelligence</i> , 2021, 51, 1992-2017.	5.3	40
104	Feature selection method using improved CHI Square on Arabic text classifiers: analysis and application. <i>Multimedia Tools and Applications</i> , 2021, 80, 10373-10390.	3.9	29
105	A Novel Instance Segmentation Algorithm Based on Improved Deep Learning algorithm for Multi-object Images. <i>Jordanian Journal of Computers and Information Technology</i> , 2021, , 1.	0.4	4
106	Multi-Robot Space Exploration: An Augmented Arithmetic Approach. <i>IEEE Access</i> , 2021, 9, 107738-107750.	4.2	44
107	A New Arithmetic Optimization Algorithm for Solving Real-World Multiobjective CEC-2021 Constrained Optimization Problems: Diversity Analysis and Validations. <i>IEEE Access</i> , 2021, 9, 84263-84295.	4.2	105
108	Development of a Real-Time Dynamic Weighting Method in Routing for Congestion Control: Application and Analysis. <i>Wireless Personal Communications</i> , 2021, 118, 755-772.	2.7	3

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109	Advances in MapReduce Big Data Processing: Platform, Tools, and Algorithms. <i>Studies in Big Data</i> , 2021, , 105-128.	1.1	9
110	Advances in Sine Cosine Algorithm: A comprehensive survey. <i>Artificial Intelligence Review</i> , 2021, 54, 2567-2608.	15.7	224
111	Advances in Meta-Heuristic Optimization Algorithms in Big Data Text Clustering. <i>Electronics (Switzerland)</i> , 2021, 10, 101.	3.1	65
112	A novel feature selection method for data mining tasks using hybrid Sine Cosine Algorithm and Genetic Algorithm. <i>Cluster Computing</i> , 2021, 24, 2161-2176.	5.0	56
113	Harris hawks optimization: a comprehensive review of recent variants and applications. <i>Neural Computing and Applications</i> , 2021, 33, 8939-8980.	5.6	93
114	Prediction of software vulnerability based deep symbiotic genetic algorithms: Phenotyping of dominant-features. <i>Applied Intelligence</i> , 2021, 51, 8271-8287.	5.3	29
115	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.	7.2	74
116	Advanced metaheuristic optimization techniques in applications of deep neural networks: a review. <i>Neural Computing and Applications</i> , 2021, 33, 14079-14099.	5.6	60
117	The Arithmetic Optimization Algorithm. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 376, 113609.	6.6	1,513
118	A novel deep learning-based feature selection model for improving the static analysis of vulnerability detection. <i>Neural Computing and Applications</i> , 2021, 33, 14049-14067.	5.6	26
119	Intelligent workflow scheduling for Big Data applications in IoT cloud computing environments. <i>Cluster Computing</i> , 2021, 24, 2957-2976.	5.0	47
120	Marine predators algorithm for optimal allocation of active and reactive power resources in distribution networks. <i>Neural Computing and Applications</i> , 2021, 33, 14327-14355.	5.6	46
121	Augmented grasshopper optimization algorithm by differential evolution: a power scheduling application in smart homes. <i>Multimedia Tools and Applications</i> , 2021, 80, 31569-31597.	3.9	14
122	Social Media Toxicity Classification Using Deep Learning: Real-World Application UK Brexit. <i>Electronics (Switzerland)</i> , 2021, 10, 1332.	3.1	41
123	Aquila Optimizer: A novel meta-heuristic optimization algorithm. <i>Computers and Industrial Engineering</i> , 2021, 157, 107250.	6.3	1,209
124	A Novel Evolutionary Arithmetic Optimization Algorithm for Multilevel Thresholding Segmentation of COVID-19 CT Images. <i>Processes</i> , 2021, 9, 1155.	2.8	110
125	Cyberstalking Victimization Model Using Criminological Theory: A Systematic Literature Review, Taxonomies, Applications, Tools, and Validations. <i>Electronics (Switzerland)</i> , 2021, 10, 1670.	3.1	7
126	An Improved Hybrid Aquila Optimizer and Harris Hawks Algorithm for Solving Industrial Engineering Optimization Problems. <i>Processes</i> , 2021, 9, 1551.	2.8	90



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127	Solving capacitated vehicle routing problem using cooperative firefly algorithm. Applied Soft Computing Journal, 2021, 108, 107403.	7.2	65
128	A Hybrid SSA and SMA with Mutation Opposition-Based Learning for Constrained Engineering Problems. Computational Intelligence and Neuroscience, 2021, 2021, 1-21.	1.7	27
129	Boosting Arithmetic Optimization Algorithm with Genetic Algorithm Operators for Feature Selection: Case Study on Cox Proportional Hazards Model. Mathematics, 2021, 9, 2321.	2.2	55
130	Modified Artificial Ecosystem-Based Optimization for Multilevel Thresholding Image Segmentation. Mathematics, 2021, 9, 2363.	2.2	26
131	An Electric Fish-Based Arithmetic Optimization Algorithm for Feature Selection. Entropy, 2021, 23, 1189.	2.2	35
132	A Consolidated Review of Path Planning and Optimization Techniques: Technical Perspectives and Future Directions. Electronics (Switzerland), 2021, 10, 2250.	3.1	81
133	An improved opposition-based marine predators algorithm for global optimization and multilevel thresholding image segmentation. Knowledge-Based Systems, 2021, 229, 107348.	7.1	92
134	Advanced optimization technique for scheduling IoT tasks in cloud-fog computing environments. Future Generation Computer Systems, 2021, 124, 142-154.	7.5	81
135	Development and application of slime mould algorithm for optimal economic emission dispatch. Expert Systems With Applications, 2021, 182, 115205.	7.6	96
136	An AI Based Irrigation and Weather Forecasting System utilizing LoRaWAN and Cloud Computing Technologies. , 2021, , .		8
137	Dragonfly algorithm: a comprehensive survey of its results, variants, and applications. Multimedia Tools and Applications, 2021, 80, 14979-15016.	3.9	37
138	Applications, Deployments, and Integration of Internet of Drones (IoD): A Review. IEEE Sensors Journal, 2021, 21, 25532-25546.	4.7	175
139	An efficient binary Gradient-based optimizer for feature selection. Mathematical Biosciences and Engineering, 2021, 18, 3813-3854.	1.9	40
140	Hybrid Harris Hawks Optimization with Differential Evolution for Data Clustering. Studies in Computational Intelligence, 2021, , 267-299.	0.9	7
141	Deep Ensemble of Slime Mold Algorithm and Arithmetic Optimization Algorithm for Global Optimization. Processes, 2021, 9, 1774.	2.8	55
142	Boosting Atomic Orbit Search Using Dynamic-Based Learning for Feature Selection. Mathematics, 2021, 9, 2786.	2.2	13
143	EWOA-OPF: Effective Whale Optimization Algorithm to Solve Optimal Power Flow Problem. Electronics (Switzerland), 2021, 10, 2975.	3.1	58
144	Survey on Twitter Sentiment Analysis: Architecture, Classifications, and Challenges. Signals and Communication Technology, 2021, , 1-18.	0.5	6

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145	Improving Automated Arabic Essay Questions Grading Based on Microsoft Word Dictionary. <i>Signals and Communication Technology</i> , 2021, , 19-40.	0.5	1
146	Class Diagram Generation from Text Requirements: An Application of Natural Language Processing. <i>Signals and Communication Technology</i> , 2021, , 55-79.	0.5	0
147	Application of Red Deer Algorithm in Optimizing Complex functions. , 2021, , .		2
148	IoT Workflow Scheduling Using Intelligent Arithmetic Optimization Algorithm in Fog Computing. <i>Computational Intelligence and Neuroscience</i> , 2021, 2021, 1-14.	1.7	40
149	An Improved Moth-Flame Optimization Algorithm with Adaptation Mechanism to Solve Numerical and Mechanical Engineering Problems. <i>Entropy</i> , 2021, 23, 1637.	2.2	59
150	Enhanced Slime Mould Algorithm for Multilevel Thresholding Image Segmentation Using Entropy Measures. <i>Entropy</i> , 2021, 23, 1700.	2.2	31
151	Migration-Based Moth-Flame Optimization Algorithm. <i>Processes</i> , 2021, 9, 2276.	2.8	53
152	MTV-MFO: Multi-Trial Vector-Based Moth-Flame Optimization Algorithm. <i>Symmetry</i> , 2021, 13, 2388.	2.2	32
153	Enhanced Adaptive Neuro-Fuzzy Inference System Using Reptile Search Algorithm for Relating Swelling Potentiality Using Index Geotechnical Properties: A Case Study at El Sherouk City, Egypt. <i>Mathematics</i> , 2021, 9, 3295.	2.2	13
154	Moth-flame optimization algorithm: variants and applications. <i>Neural Computing and Applications</i> , 2020, 32, 9859-9884.	5.6	159
155	Salp swarm algorithm: a comprehensive survey. <i>Neural Computing and Applications</i> , 2020, 32, 11195-11215.	5.6	215
156	A comprehensive survey of the Grasshopper optimization algorithm: results, variants, and applications. <i>Neural Computing and Applications</i> , 2020, 32, 15533-15556.	5.6	156
157	Reliable applied objective for identifying simple and detailed photovoltaic models using modern metaheuristics: Comparative study. <i>Energy Conversion and Management</i> , 2020, 223, 113279.	9.2	63
158	Nature-Inspired Optimization Algorithms for Text Document Clustering – A Comprehensive Analysis. <i>Algorithms</i> , 2020, 13, 345.	2.1	58
159	Green Communication for Underwater Wireless Sensor Networks: Triangle Metric Based Multi-Layered Routing Protocol. <i>Sensors</i> , 2020, 20, 7278.	3.8	6
160	A Comprehensive Survey of the Harmony Search Algorithm in Clustering Applications. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3827.	2.5	98
161	Multi-verse optimizer algorithm: a comprehensive survey of its results, variants, and applications. <i>Neural Computing and Applications</i> , 2020, 32, 12381-12401.	5.6	144
162	(AIAM2019) Artificial Intelligence in Software Engineering and inverse: Review. <i>International Journal of Computer Integrated Manufacturing</i> , 2020, 33, 1129-1144.	4.6	16

#	ARTICLE	IF	CITATIONS
163	Void Aware Routing Protocols in Underwater Wireless Sensor Networks: Variants and challenges. Journal of Physics: Conference Series, 2020, 1550, 032145.	0.4	13
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