

Laith Mohammad Abualigah

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

172
papers

5,208
citations

33
h-index

67
g-index

199
ext. papers

9,001
ext. citations

3.6
avg, IF

7.6
L-index

#	Paper	IF	Citations
172	An Efficient 5G Data Plan Approach Based on Partially Distributed Mobility Architecture.. <i>Sensors</i> , 2022 , 22,	3.8	5
171	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	4.8	8
170	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	10
169	An enhanced Grey Wolf Optimizer based Particle Swarm Optimizer for intrusion detection system in wireless sensor networks. <i>Wireless Networks</i> , 2022 , 28, 721	2.5	3
168	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	3.5	3
167	Ebola Optimization Search Algorithm: A new nature-inspired metaheuristic algorithm with application in medical image classification problem. <i>IEEE Access</i> , 2022 , 1-1	3.5	36
166	Modified marine predators algorithm for feature selection: case study metabolomics. <i>Knowledge and Information Systems</i> , 2022 , 64, 261-287	2.4	3
165	Parameterization of photovoltaic solar cell double-diode model based on improved arithmetic optimization algorithm. <i>Optik</i> , 2022 , 253, 168600	2.5	6
164	Dwarf Mongoose Optimization Algorithm. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022 , 391, 114570	5.7	49
163	An Improved Hybrid Swarm Intelligence for Scheduling IoT Application Tasks in the Cloud. <i>IEEE Transactions on Industrial Informatics</i> , 2022 , 1-1	11.9	10
162	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	3.5	9
161	An improved arithmetic optimization algorithm with forced switching mechanism for global optimization problems.. <i>Mathematical Biosciences and Engineering</i> , 2022 , 19, 473-512	2.1	10
160	Chaotic binary Group Search Optimizer for feature selection. <i>Expert Systems With Applications</i> , 2022 , 192, 116368	7.8	9
159	An improved remora optimization algorithm with autonomous foraging mechanism for global optimization problems.. <i>Mathematical Biosciences and Engineering</i> , 2022 , 19, 3994-4037	2.1	4
158	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	3.5	0
157	Enhance Teaching-Learning-Based Optimization for Tsallis-Entropy-Based Feature Selection Classification Approach. <i>Processes</i> , 2022 , 10, 360	2.9	6
156	Hybrid Reptile Search Algorithm and Remora Optimization Algorithm for Optimization Tasks and Data Clustering. <i>Symmetry</i> , 2022 , 14, 458	2.7	7

155	Boosting Marine Predators Algorithm by Salp Swarm Algorithm for Multilevel Thresholding Image Segmentation.. <i>Multimedia Tools and Applications</i> , 2022 , 1-36	2.5	4
154	An Improved Teaching-Learning-Based Optimization Algorithm with Reinforcement Learning Strategy for Solving Optimization Problems.. <i>Computational Intelligence and Neuroscience</i> , 2022 , 2022, 1535957	3	4
153	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	3.5	8
152	An Intelligent Chimp Optimizer for Scheduling of IoT Application Tasks in Fog Computing. <i>Mathematics</i> , 2022 , 10, 1100	2.3	3
151	Boosting chameleon swarm algorithm with consumption AEO operator for global optimization and feature selection. <i>Knowledge-Based Systems</i> , 2022 , 108743	7.3	2
150	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	7.2	22
149	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	2.6	4
148	Boosted ANFIS model using augmented marine predator algorithm with mutation operators for wind power forecasting. <i>Applied Energy</i> , 2022 , 314, 118851	10.7	11
147	Machine learning in medical applications: A review of state-of-the-art methods.. <i>Computers in Biology and Medicine</i> , 2022 , 145, 105458	7	19
146	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	7.8	5
145	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	4.7	0
144	Learning Features Using an optimized Artificial Neural Network for Breast Cancer Diagnosis. <i>SN Computer Science</i> , 2022 , 3, 1	2	2
143	An Improved Wild Horse Optimizer for Solving Optimization Problems. <i>Mathematics</i> , 2022 , 10, 1311	2.3	8
142	A generative adversarial network for synthetization of regions of interest based on digital mammograms.. <i>Scientific Reports</i> , 2022 , 12, 6166	4.9	2
141	A Cox Proportional-Hazards Model Based on an Improved Aquila Optimizer with Whale Optimization Algorithm Operators. <i>Mathematics</i> , 2022 , 10, 1273	2.3	2
140	Modified Remora Optimization Algorithm for Global Optimization and Multilevel Thresholding Image Segmentation. <i>Mathematics</i> , 2022 , 10, 1014	2.3	11
139	Modified Harris Hawks Optimization Algorithm with Exploration Factor and Random Walk Strategy.. <i>Computational Intelligence and Neuroscience</i> , 2022 , 2022, 4673665	3	0
138	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	2.9	1

137	A Hybrid Arithmetic Optimization and Golden Sine Algorithm for Solving Industrial Engineering Design Problems. <i>Mathematics</i> , 2022 , 10, 1567	2.3	1
136	Efficient text document clustering approach using multi-search Arithmetic Optimization Algorithm. <i>Knowledge-Based Systems</i> , 2022 , 248, 108833	7.3	2
135	Cooperative multi-function approach: A new strategy for autonomous ground robotics. <i>Future Generation Computer Systems</i> , 2022 , 134, 361-373	7.5	1
134	Enhanced Remora Optimization Algorithm for Solving Constrained Engineering Optimization Problems. <i>Mathematics</i> , 2022 , 10, 1696	2.3	8
133	A Normal Distributed Dwarf Mongoose Optimization Algorithm for Global Optimization and Data Clustering Applications. <i>Symmetry</i> , 2022 , 14, 1021	2.7	1
132	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	0.5	0
131	Aquila Optimizer Based PSO Swarm Intelligence for IoT Task Scheduling Application in Cloud Computing. <i>Studies in Computational Intelligence</i> , 2022 , 481-497	0.8	3
130	Big Data Analysis Using Hybrid Meta-Heuristic Optimization Algorithm and MapReduce Framework. <i>Studies in Computational Intelligence</i> , 2022 , 181-223	0.8	3
129	Metaheuristics for Parameter Estimation of Solar Photovoltaic Cells: A Comprehensive Review. <i>Studies in Computational Intelligence</i> , 2022 , 149-179	0.8	0
128	A New Stock Price Forecasting Method Using Active Deep Learning Approach. <i>Journal of Open Innovation: Technology, Market, and Complexity</i> , 2022 , 8, 96	3.7	1
127	Binary Aquila Optimizer for Selecting Effective Features from Medical Data: A COVID-19 Case Study. <i>Mathematics</i> , 2022 , 10, 1929	2.3	6
126	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	2.3	0
125	Classification of Glaucoma Based on Elephant-Herding Optimization Algorithm and Deep Belief Network. <i>Electronics (Switzerland)</i> , 2022 , 11, 1763	2.6	5
124	Application of Red Deer Algorithm in Optimizing Complex functions 2021 ,		1
123	IoT Workflow Scheduling Using Intelligent Arithmetic Optimization Algorithm in Fog Computing.. <i>Computational Intelligence and Neuroscience</i> , 2021 , 2021, 9114113	3	9
122	An Improved Moth-Flame Optimization Algorithm with Adaptation Mechanism to Solve Numerical and Mechanical Engineering Problems.. <i>Entropy</i> , 2021 , 23,	2.8	19
121	Enhanced Slime Mould Algorithm for Multilevel Thresholding Image Segmentation Using Entropy Measures.. <i>Entropy</i> , 2021 , 23,	2.8	15
120	Migration-Based Moth-Flame Optimization Algorithm. <i>Processes</i> , 2021 , 9, 2276	2.9	18

119	Boosting Atomic Orbit Search Using Dynamic-Based Learning for Feature Selection. <i>Mathematics</i> , 2021 , 9, 2786	2.3	5
118	Reptile Search Algorithm (RSA): A nature-inspired meta-heuristic optimizer. <i>Expert Systems With Applications</i> , 2021 , 116158	7.8	120
117	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> , 2021 , 110524	4.6	6
116	EWOA-OPF: Effective Whale Optimization Algorithm to Solve Optimal Power Flow Problem. <i>Electronics (Switzerland)</i> , 2021 , 10, 2975	2.6	13
115	Review and analysis for the Red Deer Algorithm. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2021 , 1-11	3.7	8
114	Survey on Twitter Sentiment Analysis: Architecture, Classifications, and Challenges. <i>Signals and Communication Technology</i> , 2021 , 1-18	0.5	3
113	Improving Automated Arabic Essay Questions Grading Based on Microsoft Word Dictionary. <i>Signals and Communication Technology</i> , 2021 , 19-40	0.5	
112	Class Diagram Generation from Text Requirements: An Application of Natural Language Processing. <i>Signals and Communication Technology</i> , 2021 , 55-79	0.5	
111	Deep Ensemble of Slime Mold Algorithm and Arithmetic Optimization Algorithm for Global Optimization. <i>Processes</i> , 2021 , 9, 1774	2.9	22
110	Prediction of software vulnerability based deep symbiotic genetic algorithms: Phenotyping of dominant-features. <i>Applied Intelligence</i> , 2021 , 51, 8271	4.9	11
109	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	7.5	35
108	Advanced metaheuristic optimization techniques in applications of deep neural networks: a review. <i>Neural Computing and Applications</i> , 2021 , 33, 14079	4.8	14
107	The Arithmetic Optimization Algorithm. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021 , 376, 113609	5.7	500
106	Intelligent workflow scheduling for Big Data applications in IoT cloud computing environments. <i>Cluster Computing</i> , 2021 , 24, 2957	2.1	25
105	Marine predators algorithm for optimal allocation of active and reactive power resources in distribution networks. <i>Neural Computing and Applications</i> , 2021 , 33, 14327	4.8	13
104	Augmented grasshopper optimization algorithm by differential evolution: a power scheduling application in smart homes. <i>Multimedia Tools and Applications</i> , 2021 , 80, 31569	2.5	4
103	Social Media Toxicity Classification Using Deep Learning: Real-World Application UK Brexit. <i>Electronics (Switzerland)</i> , 2021 , 10, 1332	2.6	15
102	Aquila Optimizer: A novel meta-heuristic optimization algorithm. <i>Computers and Industrial Engineering</i> , 2021 , 157, 107250	6.4	347

101	A Novel Evolutionary Arithmetic Optimization Algorithm for Multilevel Thresholding Segmentation of COVID-19 CT Images. <i>Processes</i> , 2021 , 9, 1155	2.9	50
100	Cyberstalking Victimization Model Using Criminological Theory: A Systematic Literature Review, Taxonomies, Applications, Tools, and Validations. <i>Electronics (Switzerland)</i> , 2021 , 10, 1670	2.6	0
99	An intelligent long-lived TCP based on real-time traffic regulation. <i>Multimedia Tools and Applications</i> , 2021 , 80, 16763-16780	2.5	7
98	Ant Lion Optimizer: A Comprehensive Survey of Its Variants and Applications. <i>Archives of Computational Methods in Engineering</i> , 2021 , 28, 1397-1416	7.8	57
97	A novel hybrid antlion optimization algorithm for multi-objective task scheduling problems in cloud computing environments. <i>Cluster Computing</i> , 2021 , 24, 205-223	2.1	109
96	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	4.8	75
95	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	3.7	55
94	A parallel hybrid krill herd algorithm for feature selection. <i>International Journal of Machine Learning and Cybernetics</i> , 2021 , 12, 783-806	3.8	18
93	A novel bat algorithm with dynamic membrane structure for optimization problems. <i>Applied Intelligence</i> , 2021 , 51, 1992-2017	4.9	22
92	Feature selection method using improved CHI Square on Arabic text classifiers: analysis and application. <i>Multimedia Tools and Applications</i> , 2021 , 80, 10373-10390	2.5	12
91	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	1	3
90	Multi-Robot Space Exploration: An Augmented Arithmetic Approach. <i>IEEE Access</i> , 2021 , 9, 107738-107750	3.5	11
89	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	3.5	35
88	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	1.9	2
87	Advances in MapReduce Big Data Processing: Platform, Tools, and Algorithms. <i>Studies in Big Data</i> , 2021 , 105-128	0.9	5
86	Advances in Sine Cosine Algorithm: A comprehensive survey. <i>Artificial Intelligence Review</i> , 2021 , 54, 2567-2608	3.7	105
85	Advances in Meta-Heuristic Optimization Algorithms in Big Data Text Clustering. <i>Electronics (Switzerland)</i> , 2021 , 10, 101	2.6	27
84	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	2.1	18

83	Harris hawks optimization: a comprehensive review of recent variants and applications. <i>Neural Computing and Applications</i> , 2021 , 33, 8939-8980	4.8	35
82	An Improved Hybrid Aquila Optimizer and Harris Hawks Algorithm for Solving Industrial Engineering Optimization Problems. <i>Processes</i> , 2021 , 9, 1551	2.9	27
81	Solving capacitated vehicle routing problem using cooperative firefly algorithm. <i>Applied Soft Computing Journal</i> , 2021 , 108, 107403	7.5	34
80	A Hybrid SSA and SMA with Mutation Opposition-Based Learning for Constrained Engineering Problems. <i>Computational Intelligence and Neuroscience</i> , 2021 , 2021, 6379469	3	13
79	Boosting Arithmetic Optimization Algorithm with Genetic Algorithm Operators for Feature Selection: Case Study on Cox Proportional Hazards Model. <i>Mathematics</i> , 2021 , 9, 2321	2.3	23
78	Modified Artificial Ecosystem-Based Optimization for Multilevel Thresholding Image Segmentation. <i>Mathematics</i> , 2021 , 9, 2363	2.3	10
77	An Electric Fish-Based Arithmetic Optimization Algorithm for Feature Selection. <i>Entropy</i> , 2021 , 23,	2.8	13
76	A Consolidated Review of Path Planning and Optimization Techniques: Technical Perspectives and Future Directions. <i>Electronics (Switzerland)</i> , 2021 , 10, 2250	2.6	22
75	An improved opposition-based marine predators algorithm for global optimization and multilevel thresholding image segmentation. <i>Knowledge-Based Systems</i> , 2021 , 229, 107348	7.3	27
74	Advanced optimization technique for scheduling IoT tasks in cloud-fog computing environments. <i>Future Generation Computer Systems</i> , 2021 , 124, 142-154	7.5	20
73	Development and application of slime mould algorithm for optimal economic emission dispatch. <i>Expert Systems With Applications</i> , 2021 , 182, 115205	7.8	36
72	An AI Based Irrigation and Weather Forecasting System utilizing LoRaWAN and Cloud Computing Technologies 2021 ,		1
71	Dragonfly algorithm: a comprehensive survey of its results, variants, and applications. <i>Multimedia Tools and Applications</i> , 2021 , 80, 14979-15016	2.5	14
70	. <i>IEEE Sensors Journal</i> , 2021 , 1-1	4	50
69	An efficient binary Gradient-based optimizer for feature selection. <i>Mathematical Biosciences and Engineering</i> , 2021 , 18, 3813-3854	2.1	16
68	Hybrid Harris Hawks Optimization with Differential Evolution for Data Clustering. <i>Studies in Computational Intelligence</i> , 2021 , 267-299	0.8	1
67	MTV-MFO: Multi-Trial Vector-Based Moth-Flame Optimization Algorithm. <i>Symmetry</i> , 2021 , 13, 2388	2.7	10
66	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	2.3	4

65	Green Communication for Underwater Wireless Sensor Networks: Triangle Metric Based Multi-Layered Routing Protocol. <i>Sensors</i> , 2020 , 20,	3.8	4
64	A Comprehensive Survey of the Harmony Search Algorithm in Clustering Applications. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 3827	2.6	52
63	Hybrid Harmony Search Algorithm to Solve the Feature Selection for Data Mining Applications 2020 , 19-37		5
62	Multi-verse optimizer algorithm: a comprehensive survey of its results, variants, and applications. <i>Neural Computing and Applications</i> , 2020 , 32, 12381-12401	4.8	89
61	Selection scheme sensitivity for a hybrid Salp Swarm Algorithm: analysis and applications. <i>Engineering With Computers</i> , 2020 , 1	4.5	19
60	(AIAM2019) Artificial Intelligence in Software Engineering and inverse: Review. <i>International Journal of Computer Integrated Manufacturing</i> , 2020 , 33, 1129-1144	4.3	6
59	Void Aware Routing Protocols in Underwater Wireless Sensor Networks: Variants and challenges. <i>Journal of Physics: Conference Series</i> , 2020 , 1550, 032145	0.3	8
58	Enhanced a hybrid moth-flame optimization algorithm using new selection schemes. <i>Engineering With Computers</i> , 2020 , 37, 2931	4.5	21
57	TS-GWO: IoT Tasks Scheduling in Cloud Computing Using Grey Wolf Optimizer 2020 , 127-152		6
56	An Improved B-hill Climbing Optimization Technique for Solving the Text Documents Clustering Problem. <i>Current Medical Imaging</i> , 2020 , 16, 296-306	1.2	7
55	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,	4.6	60
54	Text Summarization: A Brief Review. <i>Studies in Computational Intelligence</i> , 2020 , 1-15	0.8	14
53	Sentiment Analysis in Healthcare: A Brief Review. <i>Studies in Computational Intelligence</i> , 2020 , 129-141	0.8	14
52	MothFlame optimization algorithm: variants and applications. <i>Neural Computing and Applications</i> , 2020 , 32, 9859-9884	4.8	79
51	Salp swarm algorithm: a comprehensive survey. <i>Neural Computing and Applications</i> , 2020 , 32, 11195-11215	4.5	98
50	A comprehensive survey of the Grasshopper optimization algorithm: results, variants, and applications. <i>Neural Computing and Applications</i> , 2020 , 32, 15533-15556	4.8	92
49	Reliable applied objective for identifying simple and detailed photovoltaic models using modern metaheuristics: Comparative study. <i>Energy Conversion and Management</i> , 2020 , 223, 113279	10.6	43
48	Nature-Inspired Optimization Algorithms for Text Document Clustering: A Comprehensive Analysis. <i>Algorithms</i> , 2020 , 13, 345	1.8	31

47	Lightning search algorithm: a comprehensive survey. <i>Applied Intelligence</i> , 2020 , 51, 1-24	4.9	17
46	Bio-inspired innovative green fault recovery modelling for macro-femtocell mobile network. <i>International Journal of Bio-Inspired Computation</i> , 2019 , 14, 181	2.9	
45	Hybridising cuckoo search algorithm for extracting the ODF maxima in spherical harmonic representation. <i>International Journal of Bio-Inspired Computation</i> , 2019 , 14, 190	2.9	18
44	Modified Krill Herd Algorithm for Global Numerical Optimization Problems. <i>EAI/Springer Innovations in Communication and Computing</i> , 2019 , 205-221	0.6	19
43	A hybrid strategy for krill herd algorithm with harmony search algorithm to improve the data clustering?. <i>Intelligent Decision Technologies</i> , 2018 , 12, 3-14	0.7	24
42	A new feature selection method to improve the document clustering using particle swarm optimization algorithm. <i>Journal of Computational Science</i> , 2018 , 25, 456-466	3.4	309
41	A Grey Wolf Optimizer for Text Document Clustering. <i>Journal of Intelligent Systems</i> , 2018 , 29, 814-830	1.5	22
40	A Novel Weighting Scheme Applied to Improve the Text Document Clustering Techniques. <i>Studies in Computational Intelligence</i> , 2018 , 305-320	0.8	20
39	A combination of objective functions and hybrid Krill herd algorithm for text document clustering analysis. <i>Engineering Applications of Artificial Intelligence</i> , 2018 , 73, 111-125	7.2	201
38	Hybrid clustering analysis using improved krill herd algorithm. <i>Applied Intelligence</i> , 2018 , 48, 4047-4071	4.9	266
37	Unsupervised text feature selection technique based on hybrid particle swarm optimization algorithm with genetic operators for the text clustering. <i>Journal of Supercomputing</i> , 2017 , 73, 4773-4795	2.5	303
36	Hybridizing cuckoo search algorithm with hill climbing for numerical optimization problems 2017 ,		27
35	ECG signal denoising using Hill climbing algorithm and wavelet transform 2017 ,		9
34	Big data and E-government: A review 2017 ,		37
33	A novel hybridization strategy for krill herd algorithm applied to clustering techniques. <i>Applied Soft Computing Journal</i> , 2017 , 60, 423-435	7.5	169
32	Feature Selection with Hill Climbing Search for Text Clustering Application 2017 ,		21
31	Text feature selection with a robust weight scheme and dynamic dimension reduction to text document clustering. <i>Expert Systems With Applications</i> , 2017 , 84, 24-36	7.8	136
30	Gene selection for cancer classification by combining minimum redundancy maximum relevancy and bat-inspired algorithm. <i>International Journal of Data Mining and Bioinformatics</i> , 2017 , 19, 32	0.5	50

29	A new hybridization strategy for krill herd algorithm and harmony search algorithm applied to improve the data clustering 2017 ,		11
28	Unsupervised Text Feature Selection Technique Based on Particle Swarm Optimization Algorithm for Improving the Text Clustering 2017 ,		18
27	A comprehensive review: Krill Herd algorithm (KH) and its applications. <i>Applied Soft Computing Journal</i> , 2016 , 49, 437-446	7.5	100
26	Multi-objectives-based text clustering technique using K-mean algorithm 2016 ,		24
25	A krill herd algorithm for efficient text documents clustering 2016 ,		30
24	Unsupervised feature selection technique based on genetic algorithm for improving the Text Clustering 2016 ,		29
23	Unsupervised feature selection technique based on harmony search algorithm for improving the text clustering 2016 ,		8
22	A Comprehensive Survey on the Recent Variants and Applications of Membrane-Inspired Evolutionary Algorithms. <i>Archives of Computational Methods in Engineering</i> ,1	7.8	2
21	Chaotic quasi-oppositional arithmetic optimization algorithm for thermo-economic design of a shell and tube condenser running with different refrigerant mixture pairs. <i>Neural Computing and Applications</i> ,1	4.8	2
20	Improved gradual change-based Harris Hawks optimization for real-world engineering design problems. <i>Engineering With Computers</i> ,1	4.5	0
19	Black hole algorithm: A comprehensive survey. <i>Applied Intelligence</i> ,1	4.9	0
18	A novel intelligent deep learning predictive model for meteorological drought forecasting. <i>Journal of Ambient Intelligence and Humanized Computing</i> ,1	3.7	9
17	Improved multi-core arithmetic optimization algorithm-based ensemble mutation for multidisciplinary applications. <i>Journal of Intelligent Manufacturing</i> ,1	6.7	5
16	Improved Arithmetic Optimization Algorithm for Parameters Extraction of Photovoltaic Solar Cell Single-Diode Model. <i>Arabian Journal for Science and Engineering</i> ,1	2.5	6
15	An improved chaotic image encryption algorithm using Hadoop-based MapReduce framework for massive remote sensed images in parallel IoT applications. <i>Cluster Computing</i> ,1	2.1	3
14	An efficient equilibrium optimizer with support vector regression for stock market prediction. <i>Neural Computing and Applications</i> ,	4.8	4
13	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> ,1	1.3	1
12	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> ,1	3.7	8

11	Improved Slime Mould Algorithm based on Firefly Algorithm for feature selection: A case study on QSAR model. <i>Engineering With Computers</i> ,1	4.5	19
10	Advanced Metaheuristic Techniques for Mechanical Design Problems: Review. <i>Archives of Computational Methods in Engineering</i> ,1	7.8	19
9	A novel deep learning-based feature selection model for improving the static analysis of vulnerability detection. <i>Neural Computing and Applications</i> ,1	4.8	6
8	Amended hybrid multi-verse optimizer with genetic algorithm for solving task scheduling problem in cloud computing. <i>Journal of Supercomputing</i> ,1	2.5	23
7	Boosting arithmetic optimization algorithm by sine cosine algorithm and levy flight distribution for solving engineering optimization problems. <i>Neural Computing and Applications</i> ,1	4.8	2
6	Hybrid Aquila optimizer with arithmetic optimization algorithm for global optimization tasks. <i>Soft Computing</i> ,1	3.5	10
5	Improved near-lossless technique using the Huffman coding for enhancing the quality of image compression. <i>Multimedia Tools and Applications</i> ,1	2.5	3
4	Hybrid arithmetic optimization algorithm with hunger games search for global optimization. <i>Multimedia Tools and Applications</i> ,1	2.5	2
3	Improved linear density technique for segmentation in Arabic handwritten text recognition. <i>Multimedia Tools and Applications</i> ,1	2.5	
2	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> ,1	4.9	0
1	An effective control design approach based on novel enhanced aquila optimizer for automatic voltage regulator. <i>Artificial Intelligence Review</i> ,	9.7	2