List of Publications by Year
in descending order

351 papers	8,882 citations	53660 45 h-index	64668 79 g-index
385 all docs	385 docs citations	385 times ranked	4322 citing authors

#	Article	IF	Citations
1	An optimized machine learning technology scheme and its application in fault detection in wireless sensor networks. Journal of Applied Statistics, 2023, 50, 592-609.	0.6	12
2	Equilibrium optimizer of interswarm interactive learning strategy. Enterprise Information Systems, 2023, 17, .	3.3	4
3	Enhanced Equilibrium Optimizer algorithm applied in job shop scheduling problem. Journal of Intelligent Manufacturing, 2023, 34, 1639-1665.	4.4	14
4	Optimization of MSFs for watermarking using DWT-DCT-SVD and fish migration optimization with QUATRE. Multimedia Tools and Applications, 2023, 82, 2255-2276.	2.6	3
5	Simplified Phasmatodea population evolution algorithm for optimization. Complex & Intelligent Systems, 2022, 8, 2749-2767.	4.0	36
6	A multigroup marine predator algorithm and its application for the power system economic load dispatch. Energy Science and Engineering, 2022, 10, 1840-1854.	1.9	13
7	Golden eagle optimizer with double learning strategies for 3D path planning of UAV in power inspection. Mathematics and Computers in Simulation, 2022, 193, 509-532.	2.4	32
8	An QUasi-Affine TRansformation Evolution (QUATRE) Algorithm for Job-Shop Scheduling Problem by Mixing Different Strategies. Smart Innovation, Systems and Technologies, 2022, , 167-175.	0.5	0
9	QUasi-Affine TRansformation Evolution Algorithm for Optimal Power Flow ofÂIntegrated Electrical Network Combining Thermal Power with Wind Power. Smart Innovation, Systems and Technologies, 2022, , 177-185.	0.5	0
10	Hybrid Optimization Algorithm Based on QUATRE and ABC Algorithms. Smart Innovation, Systems and Technologies, 2022, , 187-197.	0.5	2
11	Advanced QUasi-Affine TRansformation Evolutionary (QUATRE) Algorithm andÂIts Application for Neural Network. Smart Innovation, Systems and Technologies, 2022, , 157-165.	0.5	0
12	Visual cryptography scheme for secret color images with color QR codes. Journal of Visual Communication and Image Representation, 2022, 82, 103405.	1.7	17
13	Distribution network reconfiguration with distributed generation based on parallel slime mould algorithm. Energy, 2022, 244, 123011.	4.5	43
14	Tumbleweed Algorithm and Its Application for Solving Location Problem of Logistics Distribution Center. Lecture Notes in Electrical Engineering, 2022, , 641-652.	0.3	6
15	A software-defined multi-modal wireless sensor network for ocean monitoring. International Journal of Distributed Sensor Networks, 2022, 18, 155014772110683.	1.3	11
16	Mutigroup-Based Phasmatodea Population Evolution Algorithm with Mutistrategy for IoT Electric Bus Scheduling. Wireless Communications and Mobile Computing, 2022, 2022, 1-16.	0.8	3
17	Parallel fish migration optimization with compact technology based on memory principle for wireless sensor networks. Knowledge-Based Systems, 2022, 241, 108124.	4.0	25
18	Improved fish migration optimization with the opposition learning based on elimination principle for cluster head selection. Wireless Networks, 2022, 28, 1017-1038.	2.0	2

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19	Information Hiding Based on Two-Level Mechanism and Look-Up Table Approach. Symmetry, 2022, 14, 315.	1.1	2
20	Application of the Novel Parallel QUasi-Affine TRansformation Evolution in WSN Coverage Optimization. Smart Innovation, Systems and Technologies, 2022, , 241-251.	0.5	1
21	Using color QR codes for QR code secret sharing. Multimedia Tools and Applications, 2022, 81, 15545-15563.	2.6	6
22	A novel Fruit Fly Optimization Algorithm with quasi-affine transformation evolutionary for numerical optimization and application. International Journal of Distributed Sensor Networks, 2022, 18, 155014772110730.	1.3	5
23	Advanced Phasmatodea Population Evolution Algorithm for Capacitated Vehicle Routing Problem. Journal of Advanced Transportation, 2022, 2022, 1-20.	0.9	3
24	Multi-strategy improved parallel antlion algorithm and applied to feature selection. Journal of Intelligent and Fuzzy Systems, 2022, , 1-12.	0.8	0
25	A Convolution Location Method for Multi-Node Scheduling in Wireless Sensor Networks. Electronics (Switzerland), 2022, 11, 1031.	1.8	4
26	Hybrid algorithm optimization for coverage problem in wireless sensor networks. Telecommunication Systems, 2022, 80, 105-121.	1.6	1
27	Multi-group discrete symbiotic organisms search applied in traveling salesman problems. Soft Computing, 2022, 26, 4363-4373.	2.1	4
28	Multi-group multi-verse optimizer for energy efficient for routing algorithm in wireless sensor network. Journal of Intelligent and Fuzzy Systems, 2022, 43, 2135-2146.	0.8	1
29	A new hybrid algorithm based on golden eagle optimizer and grey wolf optimizer for 3D path planning of multiple UAVs in power inspection. Neural Computing and Applications, 2022, 34, 11911-11936.	3.2	13
30	Maximum power point tracking and parameter estimation for multiple-photovoltaic arrays based on enhanced pigeon-inspired optimization with Taguchi method. Energy, 2022, 251, 123863.	4.5	25
31	A novel quantum color image steganography algorithm based on turtle shell and LSB. Quantum Information Processing, 2022, 21, 1.	1.0	5
32	Multi-surrogate assisted binary particle swarm optimization algorithm and its application for feature selection. Applied Soft Computing Journal, 2022, 121, 108736.	4.1	40
33	A parallel compact firefly algorithm for the control of variable pitch wind turbine. Engineering Applications of Artificial Intelligence, 2022, 111, 104787.	4.3	10
34	A competitive mechanism based multi-objective differential evolution algorithm and its application in feature selection. Knowledge-Based Systems, 2022, 245, 108582.	4.0	25
35	Dynamic reconfiguration of distribution network based on dynamic optimal period division and multi-group flight slime mould algorithm. Electric Power Systems Research, 2022, 208, 107925.	2.1	15
36	Novel Visual Secret Sharing Scheme for the QR Code with Meaningful Shares. Security and Communication Networks, 2022, 2022, 1-9.	1.0	2

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37	A fake threshold visual cryptography of QR code. Multimedia Tools and Applications, 2022, 81, 39635-39653.	2.6	1
38	A Mahalanobis Surrogate-Assisted Ant Lion Optimization and Its Application in 3D Coverage of Wireless Sensor Networks. Entropy, 2022, 24, 586.	1.1	3
39	Task Scheduling in Cloud Computing Environment Using Advanced Phasmatodea Population Evolution Algorithms. Electronics (Switzerland), 2022, 11, 1451.	1.8	15
40	Efficient Network Architecture Search Using Hybrid Optimizer. Entropy, 2022, 24, 656.	1.1	4
41	A single-phase-to-ground fault location method based on convolutional deep belief network. Electric Power Systems Research, 2022, 209, 108044.	2.1	9
42	Improved Binary Grasshopper Optimization Algorithm for Feature Selection Problem. Entropy, 2022, 24, 777.	1.1	8
43	A novel perfect contrast XOR-based visual cryptography scheme for multiple secrets. Multimedia Tools and Applications, 2022, 81, 43125-43143.	2.6	3
44	Modified Mayfly Algorithm for UAV Path Planning. Drones, 2022, 6, 134.	2.7	20
45	Multi-Group Gorilla Troops Optimizer with Multi-Strategies for 3D Node Localization of Wireless Sensor Networks. Sensors, 2022, 22, 4275.	2.1	7
46	Gannet optimization algorithm : A new metaheuristic algorithm for solving engineering optimization problems. Mathematics and Computers in Simulation, 2022, 202, 343-373.	2.4	107
47	Five Phases Algorithm for Global Optimization. Smart Innovation, Systems and Technologies, 2022, , 81-97.	0.5	1
48	Binary Fish Migration Optimization for Feature Selection Using Time-Varying Transfer Function. Smart Innovation, Systems and Technologies, 2022, , 311-321.	0.5	1
49	Hybrid Gray Wolf Optimization and Cuckoo Search Algorithm based on the Taguchi Theory. Smart Innovation, Systems and Technologies, 2022, , 219-228.	0.5	2
50	Energy-Efficient Clustering Mechanism of Routing Protocol for Heterogeneous Wireless Sensor Network Based on Bamboo Forest Growth Optimizer. Entropy, 2022, 24, 980.	1.1	12
51	Improved DV-Hop based on parallel and compact whale optimization algorithm for localization in wireless sensor networks. Wireless Networks, 2022, 28, 3411-3428.	2.0	13
52	Reversible data hiding method for multi-histogram point selection based on improved crisscross optimization algorithm. Information Sciences, 2021, 549, 13-33.	4.0	45
53	Digital watermarking with improved SMS applied for QR code. Engineering Applications of Artificial Intelligence, 2021, 97, 104049.	4.3	68
54	An efficient surrogate-assisted hybrid optimization algorithm for expensive optimization problems. Information Sciences, 2021, 561, 304-325.	4.0	86

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55	A New Optimization Based on Parallelizing Hybrid PSOGSA Algorithm. Smart Innovation, Systems and Technologies, 2021, , 168-178.	0.5	0
56	Improved ECC-Based Three-Factor Multiserver Authentication Scheme. Security and Communication Networks, 2021, 2021, 1-14.	1.0	32
57	Parallel Equilibrium Optimizer Algorithm and its application in Capacitated Vehicle Routing Problem. Intelligent Automation and Soft Computing, 2021, 27, 233-247.	1.6	11
58	Improving the Performance ofÂQUATRE-EAR Using Linear Population Size Reduction. Smart Innovation, Systems and Technologies, 2021, , 1-8.	0.5	0
59	Optimal Design and Simulation for PID Controller Using Fractional-Order Fish Migration Optimization Algorithm. IEEE Access, 2021, 9, 8808-8819.	2.6	26
60	Wind power prediction based on neural network with optimization of adaptive multi-group salp swarm algorithm. Cluster Computing, 2021, 24, 2083-2098.	3.5	16
61	A parallel compact cat swarm optimization and its application in DV-Hop node localization for wireless sensor network. Wireless Networks, 2021, 27, 2081-2101.	2.0	27
62	Compact Sine Cosine Algorithm with Multigroup and Multistrategy for Dispatching System of Public Transit Vehicles. Journal of Advanced Transportation, 2021, 2021, 1-16.	0.9	12
63	A Novel Binary QUasi-Affine TRansformation Evolutionary (QUATRE) Algorithm. Applied Sciences (Switzerland), 2021, 11, 2251.	1.3	7
64	Improved binary pigeon-inspired optimization and its application for feature selection. Applied Intelligence, 2021, 51, 8661-8679.	3.3	29
65	A Lightweight Intelligent Intrusion Detection Model for Wireless Sensor Networks. Security and Communication Networks, 2021, 2021, 1-15.	1.0	14
66	Fuzzy Hierarchical Surrogate Assists Probabilistic Particle Swarm Optimization for expensive high dimensional problem. Knowledge-Based Systems, 2021, 220, 106939.	4.0	32
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68	A parallel compact sine cosine algorithm for TDOA localization of wireless sensor network. Telecommunication Systems, 2021, 78, 213-223.	1.6	13
69	Binary fish migration optimization for solving unit commitment. Energy, 2021, 226, 120329.	4.5	64
70	Hybrid Strategy of Multiple Optimization Algorithms Applied to 3-D Terrain Node Coverage of Wireless Sensor Network. Wireless Communications and Mobile Computing, 2021, 2021, 1-21.	0.8	2
71	A distributed parallel firefly algorithm with communication strategies and its application for the control of variable pitch wind turbine. ISA Transactions, 2021, 115, 79-94.	3.1	14
72	An Adaptive Parallel Arithmetic Optimization Algorithm for Robot Path Planning. Journal of Advanced Transportation, 2021, 2021, 1-22.	0.9	26

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73	Multiple Optimizations-Based ESRFBN Super-Resolution Network Algorithm for MR Images. Applied Sciences (Switzerland), 2021, 11, 8150.	1.3	1
74	Node Localization in Wireless Sensor Network by Ant Lion Optimization. Smart Innovation, Systems and Technologies, 2021, , 97-109.	0.5	3
75	Flip Extended Visual Cryptography for Gray-Scale and Color Cover Images. Symmetry, 2021, 13, 65.	1.1	13
76	Compact Sine Cosine Algorithm applied in vehicle routing problem with time window. Telecommunication Systems, 2021, 78, 609-628.	1.6	5
77	A two-phase quasi-affine transformation evolution with feedback for parameter identification of photovoltaic models. Applied Soft Computing Journal, 2021, 113, 107978.	4.1	8
78	A Novel Binary Slime Mould Algorithm with AU Strategy for Cognitive Radio Spectrum Allocation. International Journal of Computational Intelligence Systems, 2021, 14, .	1.6	7
79	Differential evolution utilizing a handful top superior individuals with bionic bi-population structure for the enhancement of optimization performance. Enterprise Information Systems, 2020, 14, 221-242.	3.3	15
80	A novel pigeon-inspired optimization with QUasi-Affine TRansformation evolutionary algorithm for DV-Hop in wireless sensor networks. International Journal of Distributed Sensor Networks, 2020, 16, 155014772093274.	1.3	18
81	A Node Location Method in Wireless Sensor Networks Based on a Hybrid Optimization Algorithm. Wireless Communications and Mobile Computing, 2020, 2020, 1-14.	0.8	12
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85	Phasmatodea population evolution algorithm and its application in length-changeable incremental extreme learning machine. , 2020, , .		26
86	A parallel compact cuckoo search algorithm for three-dimensional path planning. Applied Soft Computing Journal, 2020, 94, 106443.	4.1	116
87	Internal search of the evolution matrix in QUasi-Affine TRansformation Evolution (QUATRE) algorithm. Journal of Intelligent and Fuzzy Systems, 2020, 38, 5673-5684.	0.8	10
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89	Improved Binary Grey Wolf Optimizer and Its application for feature selection. Knowledge-Based Systems, 2020, 195, 105746.	4.0	242
90	A hybridized parallel bats algorithm for combinatorial problem of traveling salesman. Journal of Intelligent and Fuzzy Systems, 2020, 38, 5811-5820.	0.8	14

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92	Diversity Teams in Soccer League Competition Algorithm for Wireless Sensor Network Deployment Problem. Symmetry, 2020, 12, 445.	1.1	14
93	Identification Failure Data for Cluster Heads Aggregation in WSN Based on Improving Classification of SVM. IEEE Access, 2020, 8, 61070-61084.	2.6	44
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95	Improved Compact Cuckoo Search Algorithm Applied to Location of Drone Logistics Hub. Mathematics, 2020, 8, 333.	1.1	65
96	Symbiotic Organism Search Algorithm with Multi-Group Quantum-Behavior Communication Scheme Applied in Wireless Sensor Networks. Applied Sciences (Switzerland), 2020, 10, 930.	1.3	36
97	A Hybrid Differential Evolution Algorithm and Its Application in Unmanned Combat Aerial Vehicle Path Planning. IEEE Access, 2020, 8, 17691-17712.	2.6	74
98	Image-matching framework based on region partitioning for target image location. Telecommunication Systems, 2020, 74, 269-286.	1.6	5
99	A Parallel Multi-Verse Optimizer for Application in Multilevel Image Segmentation. IEEE Access, 2020, 8, 32018-32030.	2.6	62
100	A Kernel-Based Probabilistic Collaborative Representation for Face Recognition. IEEE Access, 2020, 8, 37946-37957.	2.6	6
101	Energy Saving Technology of 5G Base Station Based on Internet of Things Collaborative Control. IEEE Access, 2020, 8, 32935-32946.	2.6	112
102	Quasi-Affine Transformation Evolutionary Algorithm With Communication Schemes for Application of RSSI in Wireless Sensor Networks. IEEE Access, 2020, 8, 8583-8594.	2.6	72
103	Sine Cosine Algorithm with Multigroup and Multistrategy for Solving CVRP. Mathematical Problems in Engineering, 2020, 2020, 1-10.	0.6	21
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111	Enhanced Secret Hiding Mechanism Based on Genetic Algorithm. Smart Innovation, Systems and Technologies, 2020, , 79-86.	0.5	2
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119	A Novel Improved Bat Algorithm Based on Hybrid Parallel and Compact for Balancing an Energy Consumption Problem. Information (Switzerland), 2019, 10, 194.	1.7	23
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122	New Hybrid Algorithms for Prediction of Daily Load of Power Network. Applied Sciences (Switzerland), 2019, 9, 4514.	1.3	39
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129	Beautified QR code with high storage capacity using sequential module modulation. Multimedia Tools and Applications, 2019, 78, 22575-22599.	2.6	5
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131	HARD-DE: Hierarchical ARchive Based Mutation Strategy With Depth Information of Evolution for the Enhancement of Differential Evolution on Numerical Optimization. IEEE Access, 2019, 7, 12832-12854.	2.6	79
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133	CS-DE: Differential Evolution with Cooperative Strategy for numerical optimization. , 2019, , .		2
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135	Study of Inherently Safer Design Strategy Application for IC Process Power Supply System. , 2019, , .		7
136	Reversible Data Hiding in Encrypted Color Halftone Images with High Capacity. Applied Sciences (Switzerland), 2019, 9, 5311.	1.3	3
137	Novel Parallel Heterogeneous Meta-Heuristic and Its Communication Strategies for the Prediction of Wind Power. Processes, 2019, 7, 845.	1.3	81
138	Adaptive Unified Data Embedding and Scrambling for Three-Dimensional Mesh Models. IEEE Access, 2019, 7, 162366-162386.	2.6	3
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140	A novel Differential Evolution approach to scheduling the freight trains in intervals of passenger trains. , 2019, , .		3
141	PaDE: An enhanced Differential Evolution algorithm with novel control parameter adaptation schemes for numerical optimization. Knowledge-Based Systems, 2019, 168, 80-99.	4.0	187
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146	A Public Auditing Scheme with Data Recovery. Advances in Intelligent Systems and Computing, 2019, , 595-602.	0.5	0
147	Parallel bat algorithm for optimizing makespan in job shop scheduling problems. Journal of Intelligent Manufacturing, 2018, 29, 451-462.	4.4	92
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149	A Compact Co-Evolutionary Algorithm for sensor ontology meta-matching. Knowledge and Information Systems, 2018, 56, 335-353.	2.1	57
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