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	Cat Swarm Optimization. Lecture Notes in Computer Science, 2006, , 854-858.	1.0	369
2	Diversity enhanced particle swarm optimization with neighborhood search. Information Sciences, 2013, 223, 119-135.	4.0	342
3	Genetic watermarking based on transform-domain techniques. Pattern Recognition, 2004, 37, 555-565.	5.1	277
4	Improved Binary Grey Wolf Optimizer and Its application for feature selection. Knowledge-Based Systems, 2020, 195, 105746.	4.0	242
5	Multi-strategy ensemble artificial bee colony algorithm. Information Sciences, 2014, 279, 587-603.	4.0	222
6	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
7	Ant colony system with communication strategies. Information Sciences, 2004, 167, 63-76.	4.0	154
8	QUasi-Affine TRansformation Evolutionary (QUATRE) algorithm: A cooperative swarm based algorithm for global optimization. Knowledge-Based Systems, 2016, 109, 104-121.	4.0	138
9	Enhanced parallel cat swarm optimization based on the Taguchi method. Expert Systems With Applications, 2012, 39, 6309-6319.	4.4	135
10	Reversible data hiding based on multilevel histogram modification and sequential recovery. AEU - International Journal of Electronics and Communications, 2011, 65, 814-826.	1.7	134
11	Monkey King Evolution: A new memetic evolutionary algorithm and its application in vehicle fuel consumption optimization. Knowledge-Based Systems, 2016, 97, 144-157.	4.0	126
12	Fuzzy Forecasting Based on Two-Factors Second-Order Fuzzy-Trend Logical Relationship Groups and Particle Swarm Optimization Techniques. IEEE Transactions on Cybernetics, 2013, 43, 1102-1117.	6.2	121
13	An Improved Flower Pollination Algorithm for Optimizing Layouts of Nodes in Wireless Sensor Network. IEEE Access, 2019, 7, 75985-75998.	2.6	119
14	A parallel compact cuckoo search algorithm for three-dimensional path planning. Applied Soft Computing Journal, 2020, 94, 106443.	4.1	116
15	Novel Systolization of Subquadratic Space Complexity Multipliers Based on Toeplitz Matrixâ€"Vector Product Approach. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2019, 27, 1614-1622.	2.1	113
16	Energy Saving Technology of 5G Base Station Based on Internet of Things Collaborative Control. IEEE Access, 2020, 8, 32935-32946.	2.6	112
17	Weighted Fuzzy Interpolative Reasoning Based on Weighted Increment Transformation and Weighted Ratio Transformation Techniques. IEEE Transactions on Fuzzy Systems, 2009, 17, 1412-1427.	6.5	111
18	Fuzzy Rules Interpolation for Sparse Fuzzy Rule-Based Systems Based on Interval Type-2 Gaussian Fuzzy Sets and Genetic Algorithms. IEEE Transactions on Fuzzy Systems, 2013, 21, 412-425.	6.5	108

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19	Gannet optimization algorithm : A new metaheuristic algorithm for solving engineering optimization problems. Mathematics and Computers in Simulation, 2022, 202, 343-373.	2.4	107
20	Parameters with Adaptive Learning Mechanism (PALM) for the enhancement of Differential Evolution. Knowledge-Based Systems, 2018, 141, 92-112.	4.0	97
21	Kernel class-wise locality preserving projection. Information Sciences, 2008, 178, 1825-1835.	4.0	96
22	An improved vector particle swarm optimization for constrained optimization problems. Information Sciences, 2011, 181, 1153-1163.	4.0	95
23	Vector quantization based on genetic simulated annealing. Signal Processing, 2001, 81, 1513-1523.	2.1	92
24	Parallel bat algorithm for optimizing makespan in job shop scheduling problems. Journal of Intelligent Manufacturing, 2018, 29, 451-462.	4.4	92
25	An efficient surrogate-assisted hybrid optimization algorithm for expensive optimization problems. Information Sciences, 2021, 561, 304-325.	4.0	86
26	Forecasting enrollments using automatic clustering techniques and fuzzy logical relationships. Expert Systems With Applications, 2009, 36, 11070-11076.	4.4	85
27	Intelligent Watermarking Techniques. , 2004, , .		84
28	An efficient encoding algorithm for vector quantization based on subvector technique. IEEE Transactions on Image Processing, 2003, 12, 265-270.	6.0	81
29	QUasi-Affine TRansformation Evolution with External ARchive (QUATRE-EAR): An enhanced structure for Differential Evolution. Knowledge-Based Systems, 2018, 155, 35-53.	4.0	81
30	Novel Parallel Heterogeneous Meta-Heuristic and Its Communication Strategies for the Prediction of Wind Power. Processes, 2019, 7, 845.	1.3	81
31	Cat Swarm Optimization. , 2006, , 854-858.		81
32	A Compact Bat Algorithm for Unequal Clustering in Wireless Sensor Networks. Applied Sciences (Switzerland), 2019, 9, 1973.	1.3	79
33	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
34	A Hybrid Differential Evolution Algorithm and Its Application in Unmanned Combat Aerial Vehicle Path Planning. IEEE Access, 2020, 8, 17691-17712.	2.6	74
35	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
36	A Compact Pigeon-Inspired Optimization for Maximum Short-Term Generation Mode in Cascade Hydroelectric Power Station. Sustainability, 2020, 12, 767.	1.6	72

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37	Agent-based middleware framework using distributed CPS for improving resource utilization in smart city. Future Generation Computer Systems, 2020, 108, 445-453.	4.9	71
38	Digital watermarking with improved SMS applied for QR code. Engineering Applications of Artificial Intelligence, 2021, 97, 104049.	4.3	68
39	Improved Compact Cuckoo Search Algorithm Applied to Location of Drone Logistics Hub. Mathematics, 2020, 8, 333.	1.1	65
40	Binary fish migration optimization for solving unit commitment. Energy, 2021, 226, 120329.	4.5	64
41	A Parallel Multi-Verse Optimizer for Application in Multilevel Image Segmentation. IEEE Access, 2020, 8, 32018-32030.	2.6	62
42	VQ-based digital image watermarking method. Electronics Letters, 2000, 36, 1201.	0.5	60
43	Tabu search based multi-watermarks embedding algorithm with multiple description coding. Information Sciences, 2011, 181, 3379-3396.	4.0	58
44	Reversible data hiding based on an adaptive pixel-embedding strategy and two-layer embedding. Information Sciences, 2016, 369, 144-159.	4.0	57
45	A Compact Co-Evolutionary Algorithm for sensor ontology meta-matching. Knowledge and Information Systems, 2018, 56, 335-353.	2.1	57
46	Parallel Cat Swarm Optimization. , 2008, , .		55
47	Interactive Artificial Bee Colony Supported Passive Continuous Authentication System. IEEE Systems Journal, 2014, 8, 395-405.	2.9	55
48	Fault Node Recovery Algorithm for a Wireless Sensor Network. IEEE Sensors Journal, 2013, 13, 2683-2689.	2.4	54
49	Face recognition using Gabor-based complete Kernel Fisher Discriminant analysis with fractional power polynomial models. Neural Computing and Applications, 2009, 18, 613-621.	3.2	52
50	Efficient and robust watermarking algorithm with vector quantisation. Electronics Letters, 2001, 37, 826.	0.5	50
51	A multi-objective optimal mobile robot path planning based on whale optimization algorithm. , 2016, , .		45
52	Superimposed Sparse Parameter Classifiers for Face Recognition. IEEE Transactions on Cybernetics, 2017, 47, 378-390.	6.2	45
53	Reversible data hiding method for multi-histogram point selection based on improved crisscross optimization algorithm. Information Sciences, 2021, 549, 13-33.	4.0	45
54	A Balanced Power Consumption Algorithm Based on Enhanced Parallel Cat Swarm Optimization for Wireless Sensor Network. International Journal of Distributed Sensor Networks, 2015, 11, 729680.	1.3	44

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55	Identification Failure Data for Cluster Heads Aggregation in WSN Based on Improving Classification of SVM. IEEE Access, 2020, 8, 61070-61084.	2.6	44
56	A parallel WOA with two communication strategies applied in DV-Hop localization method. Eurasip Journal on Wireless Communications and Networking, 2020, 2020, .	1.5	44
57	Low-Latency Digit-Serial and Digit-Parallel Systolic Multipliers for Large Binary Extension Fields. IEEE Transactions on Circuits and Systems I: Regular Papers, 2013, 60, 3195-3204.	3.5	43
58	Overview of Algorithms for Swarm Intelligence. Lecture Notes in Computer Science, 2011, , 28-41.	1.0	43
59	Distribution network reconfiguration with distributed generation based on parallel slime mould algorithm. Energy, 2022, 244, 123011.	4.5	43
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62	Rotation invariant watermark embedding based on scale-adapted characteristic regions. Information Sciences, 2010, 180, 2875-2888.	4.0	41
63	Monkey King Evolution: an enhanced ebb-tide-fish algorithm for global optimization and its application in vehicle navigation under wireless sensor network environment. Telecommunication Systems, 2017, 65, 351-364.	1.6	41
64	An efficient surrogate-assisted quasi-affine transformation evolutionary algorithm for expensive optimization problems. Knowledge-Based Systems, 2020, 209, 106418.	4.0	41
65	Multi-surrogate assisted binary particle swarm optimization algorithm and its application for feature selection. Applied Soft Computing Journal, 2022, 121, 108736.	4.1	40
66	Optimal PPVO-based reversible data hiding. Journal of Visual Communication and Image Representation, 2017, 48, 317-328.	1.7	39
67	New Hybrid Algorithms for Prediction of Daily Load of Power Network. Applied Sciences (Switzerland), 2019, 9, 4514.	1.3	39
68	Constrained Ant Colony Optimization for Data Clustering. Lecture Notes in Computer Science, 2004, , 534-543.	1.0	39
69	Gain-scheduled fault detection on stochastic nonlinear systems with partially known transition jump rates. Nonlinear Analysis: Real World Applications, 2012, 13, 359-369.	0.9	38
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71	Progressive Watermarking Techniques Using Genetic Algorithms. Circuits, Systems, and Signal Processing, 2007, 26, 671-687.	1.2	37
72	Adaptive quasiconformal kernel discriminant analysis. Neurocomputing, 2008, 71, 2754-2760.	3.5	36

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73	An Adaptation Multi-Group Quasi-Affine Transformation Evolutionary Algorithm for Global Optimization and Its Application in Node Localization in Wireless Sensor Networks. Sensors, 2019, 19, 4112.	2.1	36
74	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
75	Simplified Phasmatodea population evolution algorithm for optimization. Complex & Intelligent Systems, 2022, 8, 2749-2767.	4.0	36
76	Multiuser-based shadow watermark extraction system. Information Sciences, 2007, 177, 2522-2532.	4.0	33
77	Identifying correctness data scheme for aggregating data in cluster heads of wireless sensor network based on naive Bayes classification. Eurasip Journal on Wireless Communications and Networking, 2020, 2020, .	1.5	33
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79	Fuzzy Hierarchical Surrogate Assists Probabilistic Particle Swarm Optimization for expensive high dimensional problem. Knowledge-Based Systems, 2021, 220, 106939.	4.0	32
80	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
81	Image steganography based on subsampling and compressive sensing. Multimedia Tools and Applications, 2015, 74, 9191-9205.	2.6	31
82	Low-Latency Digit-Serial Systolic Double Basis Multiplier over <formula formulatype="inline"> <tex Notation="TeX">$mbi GF{(2^m)}$</tex> </formula> Using Subquadratic Toeplitz Matrix-Vector Product Approach. IEEE Transactions on Computers, 2014, 63, 1169-1181.	2.4	30
83	From the idea of â€œsparse representationâ€•to a representation-based transformation method for feature extraction. Neurocomputing, 2013, 113, 168-176.	3.5	29
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85	A Provable Secure Private Data Delegation Scheme for Mountaineering Events in Emergency System. IEEE Access, 2017, 5, 3410-3422.	2.6	29
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87	Improved binary pigeon-inspired optimization and its application for feature selection. Applied Intelligence, 2021, 51, 8661-8679.	3.3	29
88	Hadamard transform based fast codeword search algorithm for high-dimensional VQ encoding. Information Sciences, 2007, 177, 734-746.	4.0	28
89	Kernel optimization-based discriminant analysis for face recognition. Neural Computing and Applications, 2009, 18, 603-612.	3.2	28
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92	A Novel Reversible Watermarking Based on an Integer Transform. , 2007, , .		26
93	A Novel Optimization Approach: Bacterial-GA Foraging. , 2007, , .		26
94	Low-Complexity Digit-Serial and Scalable SPB/GPB Multipliers Over Large Binary Extension Fields Using (b,2)-Way Karatsuba Decomposition. IEEE Transactions on Circuits and Systems I: Regular Papers, 2014, 61, 3115-3124.	3.5	26
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98	A Novel Pigeon-Inspired Optimization Based MPPT Technique for PV Systems. Processes, 2020, 8, 356.	1.3	26
99	Optimal Design and Simulation for PID Controller Using Fractional-Order Fish Migration Optimization Algorithm. IEEE Access, 2021, 9, 8808-8819.	2.6	26
100	An Adaptive Parallel Arithmetic Optimization Algorithm for Robot Path Planning. Journal of Advanced Transportation, 2021, 2021, 1-22.	0.9	26
101	Parallel fish migration optimization with compact technology based on memory principle for wireless sensor networks. Knowledge-Based Systems, 2022, 241, 108124.	4.0	25
102	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
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105	QUasi-Affine TRansformation Evolution (QUATRE) Algorithm: A New Simple and Accurate Structure for Global Optimization. Lecture Notes in Computer Science, 2016, , 657-667.	1.0	23
106	Feature Point Matching Based on Distinct Wavelength Phase Congruency and Log-Gabor Filters in Infrared and Visible Images. Sensors, 2019, 19, 4244.	2.1	22
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108	A Competitive QUasi-Affine TRansformation Evolutionary (C-QUATRE) Algorithm for global optimization. , 2016, , .		21

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115	Modified Mayfly Algorithm for UAV Path Planning. Drones, 2022, 6, 134.	2.7	20
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122	Visual cryptography scheme for secret color images with color QR codes. Journal of Visual Communication and Image Representation, 2022, 82, 103405.	1.7	17
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128	An Improved Integer Transform Combining with an Irregular Block Partition. Symmetry, 2019, 11, 49.	1.1	15
129	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
130	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
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134	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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137	A Lightweight Intelligent Intrusion Detection Model for Wireless Sensor Networks. Security and Communication Networks, 2021, 2021, 1-15.	1.0	14
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141	A VQ-based robust multi-watermarking algorithm. , 0, , .		13
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146	A parallel compact sine cosine algorithm for TDOA localization of wireless sensor network. Telecommunication Systems, 2021, 78, 213-223.	1.6	13
147	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
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149	An Energy-Aware Routing Protocol Using Cat Swarm Optimization for Wireless Sensor Networks. Lecture Notes in Electrical Engineering, 2014, , 311-318.	0.3	13
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151	Flip Extended Visual Cryptography for Gray-Scale and Color Cover Images. Symmetry, 2021, 13, 65.	1.1	13
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175	Color Visual Secret Sharing for QR Code with Perfect Module Reconstruction. Applied Sciences (Switzerland), 2019, 9, 4670.	1.3	9
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