

GSA: A Gravitational Search Algorithm

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Citation Report

#	ARTICLE	IF	CITATIONS
1	An approach for web services composition based on QoS and gravitational search algorithm. , 2009, ,		14
2	Fuzzy Models for Intrusion Detection. , 2010, , 1-13.		0
3	A novel heuristic optimization method: charged system search. Acta Mechanica, 2010, 213, 267-289.	1.1	1,063
4	BGSA: binary gravitational search algorithm. Natural Computing, 2010, 9, 727-745.	1.8	623
5	A gravitational approach to edge detection based on triangular norms. Pattern Recognition, 2010, 43, 3730-3741.	5.1	86
6	DESIGN OF MULTILAYER MICROWAVE BROADBAND ABSORBERS USING CENTRAL FORCE OPTIMIZATION. Progress in Electromagnetics Research B, 2010, 26, 101-113.	0.7	35
7	COMPARATIVE PERFORMANCE OF GRAVITATIONAL SEARCH ALGORITHM AND MODIFIED PARTICLE SWARM OPTIMIZATION ALGORITHM FOR SYNTHESIS OF THINNED SCANNED CONCENTRIC RING ARRAY ANTENNA. Progress in Electromagnetics Research B, 2010, 25, 331-348.	0.7	85
8	An effective GSA based memetic algorithm for permutation flow shop scheduling. , 2010, ,		6
9	A new hybrid PSO-GSA algorithm for function optimization. , 2010, ,		397
10	Identification of magnetizing inrush current in power transformers using GSA trained ANN for educational purposes. , 2010, ,		8
11	An Improved Gravitation Search Algorithm for Unconstrained Optimization. Advanced Materials Research, 0, 143-144, 409-413.	0.3	4
12	A Multi-objective Gravitational Search Algorithm. , 2010, ,		79
13	Research on Traffic Organization and Design Parameter of U-turn Intersection in City. , 2010, ,		0
14	Calculation of optimized parameters of rectangular patch antenna using gravitational search algorithm. , 2011, ,		5
15	Voltage Control on 500kV Java-Bali Electrical Power System for Power Losses Minimization Using Gravitational Search Algorithm. , 2011, ,		1
16	Gravitational search algorithm with heuristic search for clustering problems. , 2011, ,		37
17	Data classification using fuzzy-GSA. , 2011, ,		1
18	A new intelligence solution for power system economic load dispatch. , 2011, ,		15

#	ARTICLE	IF	CITATIONS
19	Heuristic methods for solution of FACTS optimization problem in power systems. , 2011, , .		11
20	Gravitational Interactions Optimization. Lecture Notes in Computer Science, 2011, , 226-237.	1.0	21
21	Adaptive Image Enhancement Based on Gravitational Search Algorithm. Procedia Engineering, 2011, 15, 3288-3292.	1.2	25
22	Gravitational chaotic search algorithm for partners selection with due date constraint in virtual enterprise. , 2011, , .		2
23	Optimum-Path Forest Pruning Parameter Estimation through Harmony Search. , 2011, , .		2
24	Generation of phase-only pencil-beam pair from concentric ring array antenna using Gravitational Search Algorithm. , 2011, , .		11
25	Gravitational search algorithm for Unified Power Flow Controller based damping controller design. , 2011, , .		17
26	Feature selection through gravitational search algorithm. , 2011, , .		37
27	Benchmarking of heuristic optimization methods. , 2011, , .		13
28	Application of gravitational search algorithm for optimal reactive power dispatch problem. , 2011, , .		24
29	Evaluation of multiobjective swarm algorithms for grid scheduling. , 2011, , .		0
30	Gravitational Search Algorithms in Fuzzy Control Systems Tuning. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 13624-13629.	0.4	27
31	Disruption: A new operator in gravitational search algorithm. Scientia Iranica, 2011, 18, 539-548.	0.3	153
32	Forecasting future oil demand in Iran using GSA (Gravitational Search Algorithm). Energy, 2011, 36, 5649-5654.	4.5	69
33	A novel hybrid charge system search and particle swarm optimization method for multi-objective optimization. Expert Systems With Applications, 2011, 38, 15475-15488.	4.4	72
34	Applying gravitational search algorithm in the QoS-based Web service selection problem. Journal of Zhejiang University: Science C, 2011, 12, 730-742.	0.7	12
35	Editorial survey: swarm intelligence for data mining. Machine Learning, 2011, 82, 1-42.	3.4	256
36	Filter modeling using gravitational search algorithm. Engineering Applications of Artificial Intelligence, 2011, 24, 117-122.	4.3	318

#	ARTICLE	IF	CITATIONS
37	An improved vector particle swarm optimization for constrained optimization problems. Information Sciences, 2011, 181, 1153-1163.	4.0	95
38	A novel hybrid K-harmonic means and gravitational search algorithm approach for clustering. Expert Systems With Applications, 2011, 38, 9319-9324.	4.4	105
39	Rosenbrock artificial bee colony algorithm for accurate global optimization of numerical functions. Information Sciences, 2011, 181, 3508-3531.	4.0	292
40	Parameters identification of hydraulic turbine governing system using improved gravitational search algorithm. Energy Conversion and Management, 2011, 52, 374-381.	4.4	241
41	A Multiobjective Gravitational Search Algorithm Applied to the Static Routing and Wavelength Assignment Problem. Lecture Notes in Computer Science, 2011, , 41-50.	1.0	6
42	Improving Parkinson's disease identification through evolutionary-based feature selection. , 2011, 2011, 7857-60.		35
43	Applying a Multiobjective Gravitational Search Algorithm (MO-GSA) to Discover Motifs. Lecture Notes in Computer Science, 2011, , 372-379.	1.0	13
44	A novel and optimized Algorithm to select monitoring sensors by GSA. , 2011, , .		16
45	GSA-FL controller for three phase active power filter to improve power quality. , 2011, , .		2
46	Parametric sensitivity reduction of PI-based control systems by means of evolutionary optimization algorithms. , 2011, , .		5
47	Hexapod walking robot gait generation using genetic-gravitational hybrid algorithm. , 2011, , .		19
48	An Algorithm for Global Optimization Inspired by Collective Animal Behavior. Discrete Dynamics in Nature and Society, 2012, 2012, 1-24.	0.5	57
49	Multiobjective optimization of green sand mould system using DE and GSA. , 2012, , .		2
50	Evolutionary computation based optimization of controller parameters for an Electromagnetic Levitation System. , 2012, , .		3
51	Intelligent Gravitational Search Algorithm for optimum design of fuzzy classifier. , 2012, , .		2
52	Power quality monitor placement method using adaptive quantum-inspired binary gravitational search algorithm. , 2012, , .		9
53	An Optimization Algorithm Based on Binary Difference and Gravitational Evolution. International Journal of Computational Intelligence Systems, 2012, 5, 483-493.	1.6	1
54	Isolated particle swarm optimization with particle migration and global best adoption. Engineering Optimization, 2012, 44, 1405-1424.	1.5	20

#	ARTICLE	IF	CITATIONS
55	Fuzzy gravitational search algorithm. , 2012, , .		26
56	Gravitational Search Algorithm Optimization for short-term hydrothermal scheduling. , 2012, , .		5
57	A maiden application of gravitational search algorithm with wavelet mutation for the solution of economic load dispatch problems. International Journal of Bio-Inspired Computation, 2012, 4, 33.	0.6	22
58	Modified gravitational search algorithm. , 2012, , .		3
59	Teachingâ€“learning-based optimization algorithm for unconstrained and constrained real-parameter optimization problems. Engineering Optimization, 2012, 44, 1447-1462.	1.5	267
60	Solution of multi-objective optimal power flow using gravitational search algorithm. IET Generation, Transmission and Distribution, 2012, 6, 751.	1.4	108
61	Optimal reactive power dispatch using a gravitational search algorithm. IET Generation, Transmission and Distribution, 2012, 6, 563.	1.4	197
62	Why â€“GSA: a gravitational search algorithmâ€™ is not genuinely based on the law of gravity. Natural Computing, 2012, 11, 719-720.	1.8	45
63	Comparison and Study of Minimizing Rotor Angle Instability using GSA and FF Algorithm. Procedia Engineering, 2012, 38, 2420-2432.	1.2	0
64	Gravitational Search Algorithm for Optimal Economic Dispatch. Procedia Technology, 2012, 6, 411-419.	1.1	54
65	GSAED a new approach for digital image edge detection. , 2012, , .		0
66	A novel approach to ML DOA estimation based on eigenfiltering and stochastic search. , 2012, , .		0
67	Software performance optimization based on constrained GSA. , 2012, , .		9
68	Dynamic economic dispatch using hybrid gravitational search algorithm. , 2012, , .		5
69	Embedding Gravitational Search Algorithms in Convolutional Neural Networks for OCR applications. , 2012, , .		14
70	Short-term hydrothermal scheduling using Gravitational Search algorithm. , 2012, , .		5
71	Optimal Design of TCPST Using Gravitational Search Algorithm. , 2012, , .		3
72	Multiobjective Optimization Comparison - MOSWO vs MOGSA - for Solving the Job Scheduling Problem in Grid Environments. , 2012, , .		1

#	ARTICLE	IF	CITATIONS
73	Gravitational Search Algorithm Based Optimal Reactive Power Dispatch for Voltage Stability Enhancement. Electric Power Components and Systems, 2012, 40, 956-976.	1.0	78
74	BOA: A novel optimization algorithm. , 2012, , .		26
75	A High-Speed, Performance-Optimization Algorithm Based on a Gravitational Approach. Computing in Science and Engineering, 2012, 14, 56-62.	1.2	11
76	Optimal power flow incorporating FACTS devices using Gravitational Search Algorithm. , 2012, , .		17
77	Training feedforward neural networks using hybrid particle swarm optimization and gravitational search algorithm. Applied Mathematics and Computation, 2012, 218, 11125-11137.	1.4	431
78	GenDocSum+MCLR: Generic document summarization based on maximum coverage and less redundancy. Expert Systems With Applications, 2012, 39, 12460-12473.	4.4	47
79	Transforming geocentric cartesian coordinates to geodetic coordinates by using differential search algorithm. Computers and Geosciences, 2012, 46, 229-247.	2.0	393
80	PSS and TCSC Damping Controller Coordinated Design Using GSA. Energy Procedia, 2012, 14, 763-769.	1.8	24
81	Probabilistic energy and operation management of a microgrid containing wind/photovoltaic/fuel cell generation and energy storage devices based on point estimate method and self-adaptive gravitational search algorithm. Energy, 2012, 43, 427-437.	4.5	213
82	New Insights on Nontechnical Losses Characterization Through Evolutionary-Based Feature Selection. IEEE Transactions on Power Delivery, 2012, 27, 140-146.	2.9	52
83	Application Gravitational Search Algorithm in Identification of Switched Linear Systems. , 2012, , .		2
84	Novel Adaptive Gravitational Search Algorithm for Fuzzy Controlled Servo Systems. IEEE Transactions on Industrial Informatics, 2012, 8, 791-800.	7.2	102
85	A hybrid algorithm based on gravitational search algorithm for unimodal optimization. , 2012, , .		12
86	Convergence analysis and performance of an extended central force optimization algorithm. Applied Mathematics and Computation, 2012, 219, 2246-2259.	1.4	18
87	A new meta-heuristic method: Ray Optimization. Computers and Structures, 2012, 112-113, 283-294.	2.4	624
88	A modified gravitational search algorithm for slope stability analysis. Engineering Applications of Artificial Intelligence, 2012, 25, 1589-1597.	4.3	113
89	An Optimum-Path Forest framework for intrusion detection in computer networks. Engineering Applications of Artificial Intelligence, 2012, 25, 1226-1234.	4.3	34
90	A combined approach for clustering based on K-means and gravitational search algorithms. Swarm and Evolutionary Computation, 2012, 6, 47-52.	4.5	181

#	ARTICLE	IF	CITATIONS
91	Advanced Optimization Techniques. Springer Series in Advanced Manufacturing, 2012, , 5-34.	0.2	5
92	Newtonian Gravitational Edge Detection Using Gravitational Search Algorithm. , 2012, , .		8
93	Hybrid image segmentation using fuzzy c-means and gravitational search algorithm. Proceedings of SPIE, 2012, , .	0.8	1
94	GSA-Based Training of Convolutional Neural Networks for OCR Applications. Atlantis Computational Intelligence Systems, 2012, , 481-504.	0.5	2
95	Immunity-Based Gravitational Search Algorithm. Lecture Notes in Computer Science, 2012, , 754-761.	1.0	14
96	Geostatistical-Inspired Metamodeling and Optimization of Nano-CMOS Circuits. , 2012, , .		1
97	Path planning of unmanned aerial vehicle based on improved gravitational search algorithm. Science China Technological Sciences, 2012, 55, 2712-2719.	2.0	99
98	An improved quantum behaved gravitational search algorithm. , 2012, , .		18
99	An improved teaching-learning-based optimization algorithm for solving unconstrained optimization problems. Scientia Iranica, 2012, , .	0.3	103
100	Load frequency control of a single area power system using Gravitational Search Algorithm. , 2012, , .		17
101	A more secure steganography method based on pair-wise LSB matching via a quantum gravitational search algorithm. , 2012, , .		2
102	Vector Evaluated Gravitational Search Algorithm (VEGSA) for Multi-objective Optimization Problems. , 2012, , .		7
103	Improving the precision of CBIR systems by feature selection using binary gravitational search algorithm. , 2012, , .		20
104	An Improved Opposition-Based Disruption Operator in Gravitational Search Algorithm. , 2012, , .		5
105	Gravitational search algorithm in digital FIR low pass filter design. , 2012, , .		11
106	BBA: A Binary Bat Algorithm for Feature Selection. , 2012, , .		252
107	Hyperspectral band selection through Optimum-Path Forest and evolutionary-based algorithms. , 2012, , .		3
108	A Comparative Study on Multiobjective Swarm Intelligence for the Routing and Wavelength Assignment Problem. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2012, 42, 1644-1655.	3.3	25

#	ARTICLE	IF	CITATIONS
109	GSA based optimal capacity and location determination of distributed generation in radial distribution system for loss minimization. , 2012, , .		12
110	A Fast Discrete Gravitational Search Algorithm. , 2012, , .		19
111	Combined economic and emission dispatch solution using gravitational search algorithm. Scientia Iranica, 2012, 19, 1754-1762.	0.3	202
112	Heuristic Optimization Algorithms in Robotics. , 2012, , .		10
113	A Multi-Objective Gravitational Search Algorithm Based on Non-Dominated Sorting. International Journal of Swarm Intelligence Research, 2012, 3, 32-49.	0.5	49
114	Decision function estimation using intelligent gravitational search algorithm. International Journal of Machine Learning and Cybernetics, 2012, 3, 163-172.	2.3	24
115	Gravitational search algorithm for coordinated design of PSS and TCSC as damping controller. Journal of Central South University, 2012, 19, 923-932.	1.2	30
116	Parameters identification of chaotic system by chaotic gravitational search algorithm. Chaos, Solitons and Fractals, 2012, 45, 539-547.	2.5	80
117	A novel opposition-based gravitational search algorithm for combined economic and emission dispatch problems of power systems. International Journal of Electrical Power and Energy Systems, 2012, 35, 21-33.	3.3	216
118	Development and investigation of efficient artificial bee colony algorithm for numerical function optimization. Applied Soft Computing Journal, 2012, 12, 320-332.	4.1	253
119	A prototype classifier based on gravitational search algorithm. Applied Soft Computing Journal, 2012, 12, 819-825.	4.1	97
120	A modified Artificial Bee Colony algorithm for real-parameter optimization. Information Sciences, 2012, 192, 120-142.	4.0	945
121	Force-imitated particle swarm optimization using the near-neighbor effect for locating multiple optima. Information Sciences, 2012, 182, 139-155.	4.0	19
122	On the use of particle swarm optimization for adaptive resource allocation in orthogonal frequency division multiple access systems with proportional rate constraints. Information Sciences, 2012, 182, 115-124.	4.0	18
123	Teachingâ€“Learning-Based Optimization: An optimization method for continuous non-linear large scale problems. Information Sciences, 2012, 183, 1-15.	4.0	1,347
124	Performance assessment of foraging algorithms vs. evolutionary algorithms. Information Sciences, 2012, 182, 243-263.	4.0	110
125	A chaotic digital secure communication based on a modified gravitational search algorithm filter. Information Sciences, 2012, 208, 14-27.	4.0	83
126	Optimal power flow using gravitational search algorithm. Energy Conversion and Management, 2012, 59, 86-95.	4.4	420

#	ARTICLE	IF	CITATIONS
127	Chaotic secure communication based on a gravitational search algorithm filter. Engineering Applications of Artificial Intelligence, 2012, 25, 766-774.	4.3	22
128	The success of ePortfolio-based programming learning style diagnosis: Exploring the role of a heuristic fuzzy knowledge fusion. Expert Systems With Applications, 2012, 39, 8698-8706.	4.4	11
129	A novel chemistry based metaheuristic optimization method for mining of classification rules. Expert Systems With Applications, 2012, 39, 11080-11088.	4.4	66
130	A simplified gravitational model to analyze texture roughness. Pattern Recognition, 2012, 45, 732-741.	5.1	26
131	Tâ€™S Fuzzy Model Identification With a Gravitational Search-Based Hyperplane Clustering Algorithm. IEEE Transactions on Fuzzy Systems, 2012, 20, 305-317.	6.5	149
132	Solution of unit commitment problem using gravitational search algorithm. International Journal of Electrical Power and Energy Systems, 2013, 53, 85-94.	3.3	95
133	Optimization of cutting conditions for end milling of Ti6Al4V Alloy by using a Gravitational Search Algorithm (GSA). Meccanica, 2013, 48, 1701-1715.	1.2	14
134	S-shaped versus V-shaped transfer functions for binary Particle Swarm Optimization. Swarm and Evolutionary Computation, 2013, 9, 1-14.	4.5	814
135	Sensor deployment for fault diagnosis using a new discrete optimization algorithm. Applied Soft Computing Journal, 2013, 13, 2896-2905.	4.1	8
136	A New Hybrid Firefly Algorithm for Foundation Optimization. The National Academy of Sciences, India, 2013, 36, 279-288.	0.8	40
137	Day-ahead electricity prices forecasting by a modified CGSA technique and hybrid WT in LSSVM based scheme. Energy Conversion and Management, 2013, 74, 482-491.	4.4	69
138	Enhancing the food locations in an artificial bee colony algorithm. Soft Computing, 2013, 17, 1939-1965.	2.1	48
139	An optimization algorithm for multimodal functions inspired by collective animal behavior. Soft Computing, 2013, 17, 489-502.	2.1	24
140	Gravitational search algorithmâ€™optimized neural misuse detector with selected features by fuzzy gridsâ€™based association rules mining. Neural Computing and Applications, 2013, 23, 2451-2463.	3.2	33
141	An intelligent hybrid optimistic/pessimistic concurrency control algorithm for centralized database systems using modified GSA-optimized ART neural model. Neural Computing and Applications, 2013, 23, 1815-1829.	3.2	6
142	Dynamic Constrained Optimization with offspring repair based Gravitational Search Algorithm. , 2013, , .		32
143	Magnetic charged system search: a new meta-heuristic algorithm for optimization. Acta Mechanica, 2013, 224, 85-107.	1.1	102
144	Gravitational Search Algorithm and Lyapunov Theory based Stable Adaptive Fuzzy Logic Controller. Procedia Technology, 2013, 10, 581-586.	1.1	3

#	ARTICLE	IF	CITATIONS
145	Bio-inspired optimization techniques. Software Engineering Notes: an Informal Newsletter of the Special Interest Committee on Software Engineering / ACM, 2013, 38, 1-7.	0.5	22
146	Improving wireless sensor network coverage using the VF-BBO algorithm. , 2013, , .		9
147	A comparative study of Particle Swarm Optimization and Cuckoo Search techniques through problem-specific distance function. , 2013, , .		31
148	Automatic Generation Control of Multi-area Power System Using Gravitational Search Algorithm. Lecture Notes in Computer Science, 2013, , 537-546.	1.0	1
149	Flow-Based Anomaly Detection Using Neural Network Optimized with GSA Algorithm. , 2013, , .		51
150	Gravitational Search Algorithm based Automatic Generation Control for interconnected power system. , 2013, , .		7
151	Constrained Optimization Using Gravitational Search Algorithm. The National Academy of Sciences, India, 2013, 36, 527-534.	0.8	12
152	Optimization algorithm based on kinetic-molecular theory. Journal of Central South University, 2013, 20, 3504-3512.	1.2	8
153	Mobile robot path planning based on adaptive bacterial foraging algorithm. Journal of Central South University, 2013, 20, 3391-3400.	1.2	44
154	A new hybrid algorithm for global optimization and slope stability evaluation. Journal of Central South University, 2013, 20, 3265-3273.	1.2	13
155	Reliability improvement in distribution systems employing an integrated voltage sag mitigation method using binary gravitational search algorithm. Journal of Central South University, 2013, 20, 3002-3014.	1.2	7
156	Design and simulation of FIR band pass and band stop filters using gravitational search algorithm. Memetic Computing, 2013, 5, 311-321.	2.7	30
157	Multi- distributed generation planning using hybrid particle swarm optimisation- gravitational search algorithm including voltage rise issue. IET Generation, Transmission and Distribution, 2013, 7, 929-942.	1.4	81
158	Reliability-based design optimization of reinforced concrete structures including soil- structure interaction using a discrete gravitational search algorithm and a proposed metamodel. Engineering Optimization, 2013, 45, 1147-1165.	1.5	47
159	Characterization of high-permeability streak in mature waterflooding reservoirs using pressure transient analysis. Journal of Petroleum Science and Engineering, 2013, 110, 55-65.	2.1	34
160	Geostatistical- inspired fast layout optimisation of a nano- CMOS thermal sensor. IET Circuits, Devices and Systems, 2013, 7, 253-262.	0.9	8
161	Probabilistic model of polymer exchange fuel cell power plants for hydrogen, thermal and electrical energy management. Journal of Power Sources, 2013, 229, 285-298.	4.0	22
162	Gravitational Search Algorithm based Mobile Aggregator Sink nodes for energy efficient Wireless Sensor Networks. , 2013, , .		3

#	ARTICLE	IF	CITATIONS
163	Geostatistics inspired fast layout optimization of nanoscale CMOS phase locked loop. , 2013, , .		0
164	An optimal prediction based reversible image watermarking in Hadamard domain. , 2013, , .		0
165	A new gravitational search algorithm using fuzzy logic to parameter adaptation. , 2013, , .		71
166	An overview of Gravitational Search Algorithm utilization in optimization problems. , 2013, , .		16
167	Evolutionary optimization-based training of convolutional neural networks for OCR applications. , 2013, , .		11
168	Gravitational Search Algorithm with Wavelet Mutation applied for optimal IIR band pass filter design. , 2013, , .		8
169	Optimal VAR compensation with DG penetration using an enhanced Gravitational Search Algorithm. , 2013, , .		2
170	Metaheuristic algorithms based Flow Anomaly Detector. , 2013, , .		9
171	Convergence results on the stable states of a Gravitational Swarm solving the Graph Coloring Problem. , 2013, , .		0
172	Fuzzy logic-based adaptive gravitational search algorithm for optimal tuning of fuzzy-controlled servo systems. IET Control Theory and Applications, 2013, 7, 99-107.	1.2	69
173	Swarm Intelligence computational paradigm. , 2013, , .		0
174	Efficient Genetic Algorithm for High-Dimensional Function Optimization. , 2013, , .		1
175	An improved gravitational search algorithm based on neighbor search. , 2013, , .		0
176	Gravitational search algorithm: A novel optimization approach for economic load dispatch. , 2013, , .		6
177	Cuckoo Search: A new nature-inspired optimization method for phase equilibrium calculations. Fluid Phase Equilibria, 2013, 337, 191-200.	1.4	105
178	On Some Aspects of Nature-Based Algorithms to Solve Multi-Objective Problems. Studies in Computational Intelligence, 2013, , 477-524.	0.7	3
179	Social-Based Algorithm (SBA). Applied Soft Computing Journal, 2013, 13, 2837-2856.	4.1	109
180	Black hole: A new heuristic optimization approach for data clustering. Information Sciences, 2013, 222, 175-184.	4.0	988

#	ARTICLE	IF	CITATIONS
181	Distribution network reconfiguration to reduce losses and enhance reliability using binary gravitational search algorithm. , 2013, , .		6
182	Enhancing modified cuckoo search by using Mantegna Lévy flights and chaotic sequences. , 2013, , .		11
183	Model NOx emissions by least squares support vector machine with tuning based on ameliorated teaching-learning-based optimization. Chemometrics and Intelligent Laboratory Systems, 2013, 126, 11-20.	1.8	55
184	Stable and convergent iterative feedback tuning of fuzzy controllers for discrete-time SISO systems. Expert Systems With Applications, 2013, 40, 188-199.	4.4	66
185	Multiobjective Optimal Reactive Power Dispatch and Voltage Control: A New Opposition-Based Self-Adaptive Modified Gravitational Search Algorithm. IEEE Systems Journal, 2013, 7, 742-753.	2.9	73
186	Gravitational search algorithm: A new feature selection method for QSAR study of anticancer potency of imidazo[4,5-b]pyridine derivatives. Chemometrics and Intelligent Laboratory Systems, 2013, 122, 1-11.	1.8	39
187	An efficient and robust artificial bee colony algorithm for numerical optimization. Computers and Operations Research, 2013, 40, 1256-1265.	2.4	142
188	A stochastic gravitational approach to feature based color image segmentation. Engineering Applications of Artificial Intelligence, 2013, 26, 1322-1332.	4.3	36
189	A conceptual comparison of the Cuckoo-search, particle swarm optimization, differential evolution and artificial bee colony algorithms. Artificial Intelligence Review, 2013, 39, 315-346.	9.7	558
190	Robust design of multimachine power system stabilizers using fuzzy gravitational search algorithm. International Journal of Electrical Power and Energy Systems, 2013, 51, 190-200.	3.3	60
191	A new optimization method: Dolphin echolocation. Advances in Engineering Software, 2013, 59, 53-70.	1.8	397
192	Backtracking Search Optimization Algorithm for numerical optimization problems. Applied Mathematics and Computation, 2013, 219, 8121-8144.	1.4	836
193	Analysing the scalability of multiobjective evolutionary algorithms when solving the motif discovery problem. Journal of Global Optimization, 2013, 57, 467-497.	1.1	4
194	Modeling and seeker optimization based simulation for intelligent reactive power control of an isolated hybrid power system. Swarm and Evolutionary Computation, 2013, 13, 85-100.	4.5	43
195	Gravitation based classification. Information Sciences, 2013, 220, 319-330.	4.0	20
196	Application of seasonal SVR with chaotic gravitational search algorithm in electricity forecasting. Applied Mathematical Modelling, 2013, 37, 9643-9651.	2.2	77
197	Hydraulic turbine governing system identification using Takagi-Sugeno fuzzy model optimized by chaotic gravitational search algorithm. Engineering Applications of Artificial Intelligence, 2013, 26, 2073-2082.	4.3	66
198	Gravitational search algorithm-based design of fuzzy control systems with a reduced parametric sensitivity. Information Sciences, 2013, 247, 154-173.	4.0	79

#	ARTICLE	IF	CITATIONS
199	A Hybrid Genetic Algorithm and Gravitational Search Algorithm for Image Segmentation Using Multilevel Thresholding. Lecture Notes in Computer Science, 2013, , 707-714.	1.0	20
200	Comparative Analysis of Gravitational Search Algorithm and K-Means Clustering Algorithm for Intrusion Detection System. Advances in Intelligent Systems and Computing, 2013, , 307-316.	0.5	2
201	Hybrid Gravitational Search and Clonal Selection Algorithm for Global Optimization. Lecture Notes in Computer Science, 2013, , 1-10.	1.0	12
202	A multi-objective gravitational search algorithm based approach of power system stability enhancement with UPFC. Journal of Central South University, 2013, 20, 1536-1544.	1.2	9
203	Meta-schedulers for grid computing based on multi-objective swarm algorithms. Applied Soft Computing Journal, 2013, 13, 1567-1582.	4.1	12
204	Gravitational particle swarm. Applied Mathematics and Computation, 2013, 219, 9106-9117.	1.4	53
205	Image Segmentation in the Field of the Logarithmic Image Processing Model. Advances in Imaging and Electron Physics, 2013, , 1-44.	0.1	1
206	Strategic bidding using fuzzy adaptive gravitational search algorithm in a pool based electricity market. Applied Soft Computing Journal, 2013, 13, 2445-2455.	4.1	88
207	Feature Subset Selection Using Binary Gravitational Search Algorithm for Intrusion Detection System. Lecture Notes in Computer Science, 2013, , 377-386.	1.0	5
208	Comparing multiobjective swarm intelligence metaheuristics for DNA motif discovery. Engineering Applications of Artificial Intelligence, 2013, 26, 314-326.	4.3	13
209	Multi-objective economic emission load dispatch solution using gravitational search algorithm and considering wind power penetration. International Journal of Electrical Power and Energy Systems, 2013, 44, 282-292.	3.3	157
210	Swarm intelligence and gravitational search algorithm for multi-objective optimization of synthesis gas production. Applied Energy, 2013, 103, 368-374.	5.1	78
211	Evolutionary optimization-based tuning of low-cost fuzzy controllers for servo systems. Knowledge-Based Systems, 2013, 38, 74-84.	4.0	67
212	Forecasting of turbine heat rate with online least squares support vector machine based on gravitational search algorithm. Knowledge-Based Systems, 2013, 39, 34-44.	4.0	80
213	A simultaneous feature adaptation and feature selection method for content-based image retrieval systems. Knowledge-Based Systems, 2013, 39, 85-94.	4.0	105
214	Facing the classification of binary problems with a GSA-SVM hybrid system. Mathematical and Computer Modelling, 2013, 57, 270-278.	2.0	104
215	Multi-robot GSA- and PSO-based optimal path planning in static environments. , 2013, , .		14
216	Hybrid PSO-GSA robot path planning algorithm in static environments with danger zones. , 2013, , .		15

#	ARTICLE	IF	CITATIONS
217	Efficient, swarm-based path finding in unknown graphs using reinforcement learning. , 2013, , .		2
218	Optimized operation of microgrid based on gravitational search algorithm. , 2013, , .		2
219	Facing the classification of binary problems with a hybrid system based on quantum-inspired binary gravitational search algorithm and K-NN method. Engineering Applications of Artificial Intelligence, 2013, 26, 2424-2430.	4.3	24
220	Hybridization of the Gravitational Search Algorithm and Big Bang-Big Crunch Algorithm for Data Clustering. Fundamenta Informaticae, 2013, 126, 319-333.	0.3	9
221	Human error identification in programming by demonstration of compliant motion robotic tasks. , 2013, , .		0
222	Biclustering of web usage data using gravitational search algorithm. , 2013, , .		1
223	Combination of krill herd algorithm with chaos theory in global optimization problems. , 2013, , .		5
224	A hybrid PSO and GSA-based maximum power point tracking algorithm for PV systems. , 2013, , .		13
225	Application of binary firefly algorithm for optimal power quality monitor positioning. , 2013, , .		4
226	A parallel evolutionary approach to solve the relay node placement problem in wireless sensor networks. , 2013, , .		12
227	Optimizing nanophotonic cavity designs with the gravitational search algorithm. Optics Express, 2013, 21, 20831.	1.7	9
228	A Swarm Optimization Algorithm for Multimodal Functions and Its Application in Multicircle Detection. Mathematical Problems in Engineering, 2013, 2013, 1-22.	0.6	7
229	An approach to the inference of finite state machines based on a gravitationally-inspired search algorithm. Proceedings of the Estonian Academy of Sciences, 2013, 62, 39.	0.9	2
230	Technique for inversion of an inhomogeneous bianisotropic slab through an optimisation approach. IET Microwaves, Antennas and Propagation, 2013, 7, 436-443.	0.7	9
231	Differential Evolution and Offspring Repair Method Based Dynamic Constrained Optimization. Lecture Notes in Computer Science, 2013, , 298-309.	1.0	11
232	Solution of large-scale security constrained optimal power flow by a new bi-level optimisation approach based on enhanced gravitational search algorithm. IET Generation, Transmission and Distribution, 2013, 7, 1481-1491.	1.4	40
233	Firefly Algorithm and Pattern Search Hybridized for Global Optimization. Lecture Notes in Computer Science, 2013, , 172-178.	1.0	4
234	SWARM GRAPH COLORING FOR THE IDENTIFICATION OF USER GROUPS ON ERP LOGS. Cybernetics and Systems, 2013, 44, 489-504.	1.6	6

#	ARTICLE	IF	CITATIONS
235	A Multiobjective Optimization Model in Automotive Supply Chain Networks. <i>Mathematical Problems in Engineering</i> , 2013, 2013, 1-10.	0.6	17
236	Multiresolution Network Temporal and Spatial Scheduling Model of Scenic Spot. <i>Mathematical Problems in Engineering</i> , 2013, 2013, 1-8.	0.6	0
237	Displacement prediction of landslide based on PSO-GSA-ELM with mixed kernel. , 2013, , .		16
238	T-S fuzzy contact state recognition for compliant motion robotic tasks using gravitational search-based clustering algorithm. , 2013, , .		8
239	A self adaptive hybrid artificial bee colony algorithm for solving CEC 2013 real-parameter optimization problems. , 2013, , .		1
240	A hybrid Gravitational search algorithm — Genetic algorithm for neural network training. , 2013, , .		13
241	An improved Gravitational Search Algorithm based on single dimension swimming. , 2013, , .		0
242	Synchronous vs Asynchronous Gravitational Search Algorithm. , 2013, , .		4
243	A Survey of Swarm Algorithms Applied to Discrete Optimization Problems. , 2013, , 169-191.		86
244	Optimal Multilevel Thresholding using Improved Gravitational Search Algorithm for Image Segmentation. , 2013, , .		3
245	Optimisation of metallurgical performance of industrial flotation column using neural network and gravitational search algorithm. <i>Canadian Metallurgical Quarterly</i> , 2013, 52, 115-122.	0.4	13
247	Bio-inspired methods for fast and robust arrangement of thermoelectric modulus. <i>International Journal of Bio-Inspired Computation</i> , 2013, 5, 19.	0.6	14
248	Aerofoil Design Variable Extraction for Aerodynamic Optimization. , 2013, , .		9
249	Binary Gravitational Search based Algorithm for Optimum Siting and Sizing of DG and Shunt Capacitors in Radial Distribution Systems. <i>Energy and Power Engineering</i> , 2013, 05, 1005-1010.	0.5	8
250	AN INTEGRATED FRAMEWORK BASED ON TEXTURE FEATURES, CUCKOO SEARCH AND RELEVANCE VECTOR MACHINE FOR MEDICAL IMAGE RETRIEVAL SYSTEM. <i>American Journal of Applied Sciences</i> , 2013, 10, 1398-1412.	0.1	7
251	A Hybrid Analytical/Numerical Model for the Characterization of Preferential Flow Path with Non-Darcy Flow. <i>PLoS ONE</i> , 2013, 8, e83536.	1.1	15
252	Physics-Inspired Optimization Algorithms: A Survey. <i>Journal of Optimization</i> , 2013, 2013, 1-16.	6.0	89
253	An Algorithmic Framework for Multiobjective Optimization. <i>Scientific World Journal</i> , The, 2013, 2013, 1-11.	0.8	11

#	ARTICLE	IF	CITATIONS
254	Seven-Spot Ladybird Optimization: A Novel and Efficient Metaheuristic Algorithm for Numerical Optimization. Scientific World Journal, The, 2013, 2013, 1-11.	0.8	14
255	A Novel Fuzzy RPID Controller for Multiarea AGC with IABC Optimization. Journal of Engineering (United States), 2013, 2013, 1-13.	0.5	4
256	A HYBRID APPROACH BASED MEDICAL IMAGE RETRIEVAL SYSTEM USING FEATURE OPTIMIZED CLASSIFICATION SIMILARITY FRAMEWORK. American Journal of Applied Sciences, 2013, 10, 549-562.	0.1	5
257	Dual Population Genetic Algorithm (GA) versus OpenMP GA for Multimodal Function Optimization. International Journal of Computer Applications, 2013, 64, 29-36.	0.2	11
258	A State-of-the-Art Review of Artificial Bee Colony in the Optimization of Single and Multiple Criteria. International Journal of Applied Metaheuristic Computing, 2013, 4, 23-45.	0.5	8
259	FEATURE DIMENSION REDUCTION FOR EFFICIENT MEDICAL IMAGE RETRIEVAL SYSTEM USING UNIFIED FRAMEWORK. Journal of Computer Science, 2013, 9, 1472-1486.	0.5	3
260	AN EFFICIENT CELL PLACEMENT USING GRAVITATIONAL SEARCH ALGORITHMS. Journal of Computer Science, 2013, 9, 943-948.	0.5	7
261	Null Steering of Adaptive Beamforming Using Linear Constraint Minimum Variance Assisted by Particle Swarm Optimization, Dynamic Mutated Artificial Immune System, and Gravitational Search Algorithm. Scientific World Journal, The, 2014, 2014, 1-10.	0.8	26
262	Portfolio Selection Based on Distance between Fuzzy Variables. Mathematical Problems in Engineering, 2014, 2014, 1-12.	0.6	4
263	Optimal Battery Sizing in Photovoltaic Based Distributed Generation Using Enhanced Opposition-Based Firefly Algorithm for Voltage Rise Mitigation. Scientific World Journal, The, 2014, 2014, 1-11.	0.8	14
264	The Coral Reefs Optimization Algorithm: A Novel Metaheuristic for Efficiently Solving Optimization Problems. Scientific World Journal, The, 2014, 2014, 1-15.	0.8	136
265	An Optimal Load Shedding Methodology for Radial Power Distribution Systems to Improve Static Voltage Stability Margin using Gravity Search Algorithm. Jurnal Teknologi (Sciences and Engineering), 2014, 68, .	0.3	3
266	Metaheuristic linear modeling technique for estimating the excitation current of a synchronous motor. Turkish Journal of Electrical Engineering and Computer Sciences, 2014, 22, 1637-1652.	0.9	14
267	PARALLEL IMPLEMENTATION OF HYBRID GSA-NM ALGORITHM FOR ADAPTIVE BEAM-FORMING APPLICATIONS. Progress in Electromagnetics Research B, 2014, 58, 47-57.	0.7	7
268	Application of Hybrid PSO/GSA to Reactive Power Optimization Problem. Research Journal of Applied Sciences, Engineering and Technology, 2014, 8, 2234-2239.	0.1	0
269	Subspace Clustering Mutation Operator for Developing Convergent Differential Evolution Algorithm. Mathematical Problems in Engineering, 2014, 2014, 1-18.	0.6	2
270	Harmony Search PSO Clustering for Tumor and Cancer Gene Expression Dataset. International Journal of Swarm Intelligence Research, 2014, 5, 1-21.	0.5	3
271	Performance Evaluation of OLSR Using Swarm Intelligence and Hybrid Particle Swarm Optimization Using Gravitational Search Algorithm. Research Journal of Applied Sciences, Engineering and Technology, 2014, 7, 3126-3133.	0.1	0

#	ARTICLE	IF	CITATIONS
272	Dynamic optimal operation scheduling of microgrid using binary gravitational search algorithm. , 2014, , .		2
273	Parameter tuning of GSA using DOE. , 2014, , .		6
274	TRAINING NEURAL NETWORKS TO PREDICT STUDENT ACADEMIC PERFORMANCE: A COMPARISON OF CUCKOO SEARCH AND GRAVITATIONAL SEARCH ALGORITHMS. International Journal of Computational Intelligence and Applications, 2014, 13, 1450005.	0.6	21
275	Intelligent controller for load-tracking performance of an autonomous power system. Ain Shams Engineering Journal, 2014, 5, 1167-1176.	3.5	11
276	Optimal power flow using hybrid PSOCSA algorithm. , 2014, , .		3
277	A hybrid cuckoo search and variable neighborhood descent for single and multiobjective scheduling problems. International Journal of Advanced Manufacturing Technology, 2014, 75, 1501-1516.	1.5	11
278	Solving Twoâ€“Sided Assembly Line Balancing Problem via Gravitational Search Algorithm. Applied Mechanics and Materials, 0, 697, 450-455.	0.2	2
279	Prolong the network lifetime by optimal clustering based on intelligent search algorithms in wireless sensor networks. , 2014, , .		0
280	Guided convergence for training feed-forward neural network using novel gravitational search optimization. , 2014, , .		2
281	A Binary Cuckoo Search and Its Application for Feature Selection. Studies in Computational Intelligence, 2014, , 141-154.	0.7	27
282	Group search optimizer algorithm in wireless sensor network localization. , 2014, , .		4
283	Oil-free centrifugal chiller optimal operation. , 2014, , .		3
284	Modified Krill Herd Optimization algorithm using chaotic parameters. , 2014, , .		5
285	A PSOCSA method to optimize the T-S fuzzy neural network for displacement prediction of landslide. , 2014, , .		1
286	Multi-objective optimisation of retaining walls using hybrid adaptive gravitational search algorithm. Civil Engineering and Environmental Systems, 2014, 31, 229-242.	0.4	39
287	A hybrid feature selection method for high-dimensional data. , 2014, , .		7
288	An improved HPSO-GSA with adaptive evolution stagnation cycle. , 2014, , .		1
289	A Novel Plant Root Foraging Algorithm for Image Segmentation Problems. Mathematical Problems in Engineering, 2014, 2014, 1-16.	0.6	6

#	ARTICLE	IF	CITATIONS
290	An optimal design of interval type-2 fuzzy logic system with various experiments including magnetorheological fluid damper. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2014, 228, 3090-3106.	1.1	17
291	Performance Comparison of Particle Swarm Optimization and Gravitational Search Algorithm to the Designed of Controller for Nonlinear System. Journal of Applied Mathematics, 2014, 2014, 1-9.	0.4	8
292	Bio-Mimic Optimization Strategies in Wireless Sensor Networks: A Survey. Sensors, 2014, 14, 299-345.	2.1	90
293	Mean Target Semi-Absolute Deviation Model for Portfolio Selection with Uncertain Returns. Advanced Materials Research, 0, 1079-1080, 707-710.	0.3	0
294	Metric-Based Mathematical Derivation of Aerofoil Design Variables. , 2014, , .		3
295	Optimal coordination of overcurrent relay for offshore wind farm integrated to onshore grid with VSC-HVDC. , 2014, , .		0
296	Reactive power optimization using GSA. , 2014, , .		0
297	Minimax approximation synthesis in PSS design by embedding gravitational search algorithm. , 2014, , .		2
298	Exploitation selection of alpha parameter in Gravitational Search Algorithm of PID controller for computational time analysis. , 2014, , .		1
299	Spare parts optimization model of warship formation based on gravitational search algorithm. , 2014, , .		0
300	Hybrid improved gravitational search algorithm and kernel based extreme learning machine method for classification problems. , 2014, , .		1
301	Flower Pollination Algorithm with Dimension by Dimension Improvement. Mathematical Problems in Engineering, 2014, 2014, 1-9.	0.6	40
302	An Improved Central Force Optimization Algorithm for Multimodal Optimization. Journal of Applied Mathematics, 2014, 2014, 1-12.	0.4	16
303	An improved gravitational search algorithm for optimal placement and sizing of renewable distributed generation units in a distribution system for power quality enhancement. Journal of Renewable and Sustainable Energy, 2014, 6, 033112.	0.8	18
304	Composite Differential Search Algorithm. Journal of Applied Mathematics, 2014, 2014, 1-15.	0.4	11
305	Improved Artificial Bee Colony Algorithm Based Gravity Matching Navigation Method. Sensors, 2014, 14, 12968-12989.	2.1	25
306	Gravitational Search Algorithm - Based Optimization of Process Parameters in Micro Turning Process. Applied Mechanics and Materials, 0, 592-594, 391-394.	0.2	0
307	Particle swarm optimization approach for modelling a turning process. Advances in Production Engineering and Management, 2014, 9, 21-30.	0.8	24

#	ARTICLE	IF	CITATIONS
308	Optimal coordination of overcurrent relay for offshore wind farm integrated to onshore grid with VSC-HVDC. , 2014, , .		0
309	Reduction of carbon emissions in VRP by gravitational search algorithm. Management of Environmental Quality, 2014, 25, 766-782.	2.2	18
310	Optimization of controller parameters for a DC attraction type levitation system by evolutionary technique. , 2014, , .		0
311	Applying metaheuristic approaches on the single facility location problem with polygonal barriers. International Journal of Metaheuristics, 2014, 3, 348.	0.1	4
312	Feature Selection and Classifier Parameter Estimation for EEG Signal Peak Detection Using Gravitational Search Algorithm. , 2014, , .		9
313	Simscape design flow for memristor based programmable oscillators. , 2014, , .		3
314	Research on WNN Modeling for Gold Price Forecasting Based on Improved Artificial Bee Colony Algorithm. Computational Intelligence and Neuroscience, 2014, 2014, 1-10.	1.1	29
315	Comparison of Local and Global Constrained Aerodynamic Shape Optimization. , 2014, , .		4
316	Computational intelligence approach in optimization of a nanotechnology process. , 2014, , .		0
317	A Constrained Global Optimization Framework. , 2014, , .		4
318	Reactive power optimization using GSA. , 2014, , .		2
319	Gravitational Search Algorithm Using CUDA. , 2014, , .		4
320	Beampattern optimization in distributed beamforming using multiobjective and metaheuristic method. , 2014, , .		16
321	Optimal null steering of minimum variance distortionless response adaptive beamforming using particle swarm optimization and gravitational search algorithm. , 2014, , .		2
322	T-S model identification based on silhouette index and improved gravitational search algorithm. , 2014, , .		3
323	Magnetizer Design Based on a Quasi-Oppositional Gravitational Search Algorithm. IEEE Transactions on Magnetics, 2014, 50, 705-708.	1.2	13
324	A power spectrum optimization algorithm inspired by magnetotactic bacteria. Neural Computing and Applications, 2014, 25, 1823-1844.	3.2	15
325	Adaptive hybrid Particle Swarm Optimization-Gravitational Search Algorithm for fuzzy controller tuning. , 2014, , .		8

#	ARTICLE	IF	CITATIONS
326	Optimal design of power system stabilizer using oppositional gravitational search algorithm. , 2014, , .		5
327	Heuristic optimisation of state-of-charge feedback controller for hourly dispatch of hybrid PV/BES system. , 2014, , .		2
328	Darwin or Lamarck? Future Challenges in Evolutionary Algorithms for Knowledge Discovery and Data Mining. Lecture Notes in Computer Science, 2014, , 35-56.	1.0	15
329	Novel Bees Algorithm: Stochastic self-adaptive neighborhood. Applied Mathematics and Computation, 2014, 247, 1161-1172.	1.4	15
330	Swarm approach based on gravity for optimizing energy savings in grid systems. Journal of Heuristics, 2014, 20, 617-641.	1.1	0
331	A hybrid PSO-GSA strategy for high-dimensional optimization and microarray data clustering. , 2014, , .		8
332	Cluster based wind-hydro-thermal unit commitment using GSA algorithm. , 2014, , .		12
333	Analysis of constraint handling methods for the gravitational search algorithm. , 2014, , .		4
334	Primer design using gravitational search algorithm. , 2014, , .		2
335	An improved grey wolf optimizer for training q-Gaussian Radial Basis Functional-link nets. , 2014, , .		46
336	A levy flight-based hybrid artificial bee colony algorithm for solving numerical optimization problems. , 2014, , .		2
337	A prototype optimization method for nearest neighbor classification by gravitational search algorithm. , 2014, , .		2
338	Constraint handling in agent-based optimization by independent sub-swarms. , 2014, , .		2
339	Hybridization of modified particle swarm optimization with gravitational search algorithm for solving optimal power flow including wind generation in isolated Adrar region. , 2014, , .		0
340	A novel gravitational search algorithm with modified step-size and Explosion-Birth operator. , 2014, , .		2
341	PSO Based Optimal Location and Sizing of SVC for Novel Multiobjective Voltage Stability Analysis during N " 2 Line Contingency. Archives of Electrical Engineering, 2014, 63, 535-550.	1.0	3
342	Smart charging of plug-in electric vehicle using gravitational search algorithm. , 2014, , .		0
343	Recent Development of Metaheuristics for Clustering. Lecture Notes in Electrical Engineering, 2014, , 629-636.	0.3	11

#	ARTICLE	IF	CITATIONS
344	Optimization of Cutting Parameters in Wirecut EDM of D2 Die Steel Using Gravitational Search Algorithm. Applied Mechanics and Materials, 0, 592-594, 591-594.	0.2	0
345	A Review on Gravitational Search Algorithm and its Applications to Data Clustering & Classification. International Journal of Intelligent Systems and Applications, 2014, 6, 79-93.	0.9	35
346	Performance of gravitational search algorithm in wireless sensor network localization. , 2014, , .		6
347	Introduction to Computational Intelligence. Intelligent Systems Reference Library, 2014, , 3-17.	1.0	5
348	Electricity load forecasting based on a mixed statistical-neural-computational intelligence approach. , 2014, , .		4
349	An Improved Golden Ball Algorithm for the Capacitated Vehicle Routing Problem. Communications in Computer and Information Science, 2014, , 341-356.	0.4	7
350	UNSUPERVISED DATA AND HISTOGRAM CLUSTERING USING INCLINED PLANES SYSTEM OPTIMIZATION ALGORITHM. Image Analysis and Stereology, 2014, 33, 65.	0.4	5
351	Modelling of a Turning Process Using the Gravitational Search Algorithm. International Journal of Simulation Modelling, 2014, 13, 30-41.	0.6	18
352	Feature subset selection using improved binary gravitational search algorithm. Journal of Intelligent and Fuzzy Systems, 2014, 26, 1211-1221.	0.8	69
353	A Memetic Gravitation Search Algorithm for Solving Permutation Flow Shop Scheduling. Advanced Materials Research, 2014, 1079-1080, 626-630.	0.3	0
354	The Monarchy Driven Optimization technique. , 2014, , .		0
355	A gravitational search algorithm for multimodal optimization. Swarm and Evolutionary Computation, 2014, 14, 1-14.	4.5	118
356	Solution of reactive power dispatch of power systems by an opposition-based gravitational search algorithm. International Journal of Electrical Power and Energy Systems, 2014, 55, 29-40.	3.3	176
357	Integrating the artificial bee colony and bees algorithm to face constrained optimization problems. Information Sciences, 2014, 258, 80-93.	4.0	57
358	Geometric Selective Harmony Search. Information Sciences, 2014, 279, 468-482.	4.0	37
359	System modeling and optimization for islanded micro-grid using multi-cross learning-based chaotic differential evolution algorithm. International Journal of Electrical Power and Energy Systems, 2014, 56, 349-360.	3.3	58
360	Fuzzy granular gravitational clustering algorithm for multivariate data. Information Sciences, 2014, 279, 498-511.	4.0	113
361	Evaluating center-seeking and initialization bias: The case of particle swarm and gravitational search algorithms. Information Sciences, 2014, 278, 802-821.	4.0	19

#	ARTICLE	IF	CITATIONS
362	A survey on nature-inspired optimization algorithms with fuzzy logic for dynamic parameter adaptation. <i>Expert Systems With Applications</i> , 2014, 41, 6459-6466.	4.4	112
363	A hybrid approach based on an improved gravitational search algorithm and orthogonal crossover for optimal shape design of concrete gravity dams. <i>Applied Soft Computing Journal</i> , 2014, 16, 223-233.	4.1	68
364	Nature-Inspired Framework for Hyperspectral Band Selection. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2014, 52, 2126-2137.	2.7	60
365	A new gravitational image edge detection method using edge explorer agents. <i>Natural Computing</i> , 2014, 13, 65-78.	1.8	7
366	Differential evolution variants to schedule flexible assembly lines. <i>Journal of Intelligent Manufacturing</i> , 2014, 25, 739-753.	4.4	15
367	CAPSO: Centripetal accelerated particle swarm optimization. <i>Information Sciences</i> , 2014, 258, 54-79.	4.0	78
368	Piecewise function based gravitational search algorithm and its application on parameter identification of AVR system. <i>Neurocomputing</i> , 2014, 124, 139-148.	3.5	49
369	Convergence analysis of some multiobjective evolutionary algorithms when discovering motifs. <i>Soft Computing</i> , 2014, 18, 853-869.	2.1	6
370	Flow-based anomaly detection in high-speed links using modified GSA-optimized neural network. <i>Neural Computing and Applications</i> , 2014, 24, 599-611.	3.2	47
371	Generation of suprasegmental information for speech using a recurrent neural network and binary gravitational search algorithm for feature selection. <i>Applied Intelligence</i> , 2014, 40, 772-790.	3.3	11
372	Integrating artificial bee colony and bees algorithm for solving numerical function optimization. <i>Neural Computing and Applications</i> , 2014, 25, 635-651.	3.2	7
373	Enhancement of artificial neural network learning using centripetal accelerated particle swarm optimization for medical diseases diagnosis. <i>Soft Computing</i> , 2014, 18, 2253-2270.	2.1	56
374	How novel is the "novel" black hole optimization approach?. <i>Information Sciences</i> , 2014, 267, 191-200.	4.0	60
375	Evolving spiking neural networks for personalised modelling, classification and prediction of spatio-temporal patterns with a case study on stroke. <i>Neurocomputing</i> , 2014, 134, 269-279.	3.5	117
376	A survey on nature inspired metaheuristic algorithms for partitional clustering. <i>Swarm and Evolutionary Computation</i> , 2014, 16, 1-18.	4.5	450
377	Improved gravitational search algorithm for unit commitment considering uncertainty of wind power. <i>Energy</i> , 2014, 67, 52-62.	4.5	105
378	A particle swarm optimization based simultaneous learning framework for clustering and classification. <i>Pattern Recognition</i> , 2014, 47, 2143-2152.	5.1	26
379	Joint economic lot sizing problem for a three-layer supply chain with stochastic demand. <i>International Journal of Production Economics</i> , 2014, 155, 272-283.	5.1	26

#	ARTICLE	IF	CITATIONS
380	Comparing large number of metaheuristics for artificial neural networks training to predict water temperature in a natural river. <i>Computers and Geosciences</i> , 2014, 64, 136-151.	2.0	37
381	Modified Metaheuristic Algorithms for the Optimal Design of Multiplier-Less Non-uniform Channel Filters. <i>Circuits, Systems, and Signal Processing</i> , 2014, 33, 815-837.	1.2	27
382	Microstrip multistopband filter based on prefractal space-filling curve. <i>Microwave and Optical Technology Letters</i> , 2014, 56, 450-455.	0.9	0
383	Multi-objective optimization of short-term hydrothermal scheduling using non-dominated sorting gravitational search algorithm with chaotic mutation. <i>Energy Conversion and Management</i> , 2014, 81, 504-519.	4.4	84
384	Solution of multiple UPFC placement problems using Gravitational Search Algorithm. <i>International Journal of Electrical Power and Energy Systems</i> , 2014, 55, 531-541.	3.3	36
385	Optimal power quality monitor placement in power systems using an adaptive quantum-inspired binary gravitational search algorithm. <i>International Journal of Electrical Power and Energy Systems</i> , 2014, 57, 404-413.	3.3	36
386	Metaheuristic algorithms for the design of multiplier-less non-uniform filter banks based on frequency response masking. <i>Soft Computing</i> , 2014, 18, 1529-1547.	2.1	7
387	Enhanced gravitational search algorithm for multi-objective distribution feeder reconfiguration considering reliability, loss and operational cost. <i>IET Generation, Transmission and Distribution</i> , 2014, 8, 55-69.	1.4	127
388	KGMO: A swarm optimization algorithm based on the kinetic energy of gas molecules. <i>Information Sciences</i> , 2014, 275, 127-144.	4.0	47
389	Other Algorithms and Hybrid Algorithms. , 2014, , 213-226.		7
390	A chaotic-based big bang-big crunch algorithm for solving global optimisation problems. <i>Neural Computing and Applications</i> , 2014, 25, 1329-1335.	3.2	58
391	Optimal Reconfiguration in Radial Distribution System Using Gravitational Search Algorithm. <i>Electric Power Components and Systems</i> , 2014, 42, 703-715.	1.0	28
392	A novel hybrid particle swarm optimization and gravitational search algorithm for solving economic emission load dispatch problems with various practical constraints. <i>International Journal of Electrical Power and Energy Systems</i> , 2014, 55, 628-644.	3.3	170
393	A new approach to dual channel speech enhancement based on gravitational search algorithm (GSA). <i>International Journal of Speech Technology</i> , 2014, 17, 341-351.	1.4	8
394	Heuristic optimization of state-of-charge feedback controller parameters for output power dispatch of hybrid photovoltaic/battery energy storage system. <i>Measurement: Journal of the International Measurement Confederation</i> , 2014, 49, 15-25.	2.5	17
395	Performance assessment of multiobjective approaches in optical Traffic Grooming. <i>Journal of Network and Computer Applications</i> , 2014, 41, 319-350.	5.8	1
396	Bacterial colony foraging algorithm: Combining chemotaxis, cell-to-cell communication, and self-adaptive strategy. <i>Information Sciences</i> , 2014, 273, 73-100.	4.0	23
397	Quasi-oppositional gravitational search algorithm applied to complex economic load dispatch problem. , 2014, , .		3

#	ARTICLE	IF	CITATIONS
398	A novel particle swarm optimization trained support vector machine for automatic sense-through-foliage target recognition system. Knowledge-Based Systems, 2014, 65, 50-59.	4.0	25
399	Noise filtering in ultrasound images using Gravitational Search Algorithm. , 2014, , .		8
400	A quantum inspired gravitational search algorithm for numerical function optimization. Information Sciences, 2014, 267, 83-100.	4.0	81
401	Modeling a shape memory alloy actuator using an evolvable recursive black-box and hybrid heuristic algorithms inspired based on the annual migration of salmon in nature. Applied Soft Computing Journal, 2014, 14, 229-251.	4.1	40
402	Optimization of hybrid laminated composites using the multi-objective gravitational search algorithm (MOGSA). Engineering Optimization, 2014, 46, 1169-1182.	1.5	28
403	Application of an effective modified gravitational search algorithm for the coordinated scheduling problem in a two-stage supply chain. International Journal of Advanced Manufacturing Technology, 2014, 70, 335-348.	1.5	38
404	A discrete gravitational search algorithm for solving combinatorial optimization problems. Information Sciences, 2014, 258, 94-107.	4.0	78
405	A Bumble Bees Mating Optimization algorithm for the Open Vehicle Routing Problem. Swarm and Evolutionary Computation, 2014, 15, 80-94.	4.5	52
406	Grey Wolf Optimizer. Advances in Engineering Software, 2014, 69, 46-61.	1.8	11,382
407	Automatic cluster evolution using gravitational search algorithm and its application on image segmentation. Engineering Applications of Artificial Intelligence, 2014, 29, 93-103.	4.3	63
408	A wrapper approach for feature selection based on Bat Algorithm and Optimum-Path Forest. Expert Systems With Applications, 2014, 41, 2250-2258.	4.4	212
409	Gravitational Search Algorithm. Intelligent Systems Reference Library, 2014, , 355-364.	1.0	19
410	Multilevel fuzzy partition segmentation of satellite images using GSA. , 2014, , .		6
411	Multiple UCAVs mission assignment based on modified Gravitational Search. , 2014, , .		1
412	Improving the quality of K-NN graphs through vector sparsification: application to image databases. International Journal of Multimedia Information Retrieval, 2014, 3, 259-274.	3.6	2
413	Optimal power flow for distribution networks using gravitational search algorithm. Electrical Engineering, 2014, 96, 335-345.	1.2	24
414	Exploring Kriging for Fast and Accurate Design Optimization of Nanoscale Analog Circuits. , 2014, , .		6
415	Gravitational ensemble clustering. , 2014, , .		2

#	ARTICLE	IF	CITATIONS
416	Hierarchical redundancy allocation for multi-level reliability systems employing a bacterial-inspired evolutionary algorithm. <i>Information Sciences</i> , 2014, 288, 174-193.	4.0	12
417	VARIANCE-BASED HARMONY SEARCH ALGORITHM FOR UNIMODAL AND MULTIMODAL OPTIMIZATION PROBLEMS WITH APPLICATION TO CLUSTERING. <i>Cybernetics and Systems</i> , 2014, 45, 486-511.	1.6	22
418	Adaptive gbest-guided gravitational search algorithm. <i>Neural Computing and Applications</i> , 2014, 25, 1569-1584.	3.2	174
419	Hurricane Search algorithm a new model for function optimization. , 2014, , .		3
420	Gravitational search algorithm for the static synchronous series compensator based damping controller design. , 2014, , .		10
421	Semi-supervised weighted kernel clustering based on gravitational search for fault diagnosis. <i>ISA Transactions</i> , 2014, 53, 1534-1543.	3.1	42
422	gsalNknn: A GSA optimized, lattice computing knn classifier. <i>Engineering Applications of Artificial Intelligence</i> , 2014, 35, 277-285.	4.3	21
423	CGSA: A Grouping Gravitational Search Algorithm for data clustering. <i>Engineering Applications of Artificial Intelligence</i> , 2014, 36, 114-121.	4.3	77
424	Renewable-based generation expansion planning considering environmental issues using GSA. , 2014, , .		7
425	A Gravitational Search Algorithm (GSA) based Photo-Voltaic (PV) excitation control strategy for single phase operation of three phase wind-turbine coupled induction generator. <i>Energy</i> , 2014, 74, 707-718.	4.5	23
426	Gravitational search algorithm application in optimal allocation and sizing of multi distributed generation. , 2014, , .		2
427	Convergence analysis and performance of an improved gravitational search algorithm. <i>Applied Soft Computing Journal</i> , 2014, 24, 363-384.	4.1	64
428	Truss optimization on shape and sizing with frequency constraints based on orthogonal multi-gravitational search algorithm. <i>Journal of Sound and Vibration</i> , 2014, 333, 6349-6369.	2.1	83
429	A survey on the Imperialist Competitive Algorithm metaheuristic: Implementation in engineering domain and directions for future research. <i>Applied Soft Computing Journal</i> , 2014, 24, 1078-1094.	4.1	244
430	An Improved Gravitational Search Algorithm for Dynamic Neural Network Identification. <i>International Journal of Automation and Computing</i> , 2014, 11, 434-440.	4.5	19
431	Gravitational Search Algorithm for Optimal Distributed Generation Operation in Autonomous Network. <i>Arabian Journal for Science and Engineering</i> , 2014, 39, 7183-7188.	1.1	9
432	Black Hole: A New Operator for Gravitational Search Algorithm. <i>International Journal of Computational Intelligence Systems</i> , 2014, 7, 809.	1.6	41
433	Optimal Location and Sizing of Multiple Static VAR Compensators for Voltage Risk Assessment Using Hybrid PSO-GSA Algorithm. <i>Arabian Journal for Science and Engineering</i> , 2014, 39, 7967-7980.	1.1	12

#	ARTICLE	IF	CITATIONS
434	Aspects of the Selection of the Structure and Parameters of Controllers Using Selected Population Based Algorithms. Lecture Notes in Computer Science, 2014, , 440-454.	1.0	17
435	Binary optimization using hybrid particle swarm optimization and gravitational search algorithm. Neural Computing and Applications, 2014, 25, 1423-1435.	3.2	163
436	Task scheduling on computational Grids using Gravitational Search Algorithm. Cluster Computing, 2014, 17, 1001-1011.	3.5	15
437	Improved gravitational search algorithm for parameter identification of water turbine regulation system. Energy Conversion and Management, 2014, 78, 306-315.	4.4	112
438	Intelligent fuzzy-based reactive power compensation of an isolated hybrid power system. International Journal of Electrical Power and Energy Systems, 2014, 57, 164-177.	3.3	42
439	Chaotic quantum behaved particle swarm optimization algorithm for solving nonlinear system of equations. Computers and Mathematics With Applications, 2014, 68, 508-530.	1.4	64
440	A modified gravitational search algorithm for continuous optimization. , 2014, , .		0
441	Reservoir Optimization in Water Resources: a Review. Water Resources Management, 2014, 28, 3391-3405.	1.9	222
442	Novel quantum-inspired firefly algorithm for optimal power quality monitor placement. Frontiers in Energy, 2014, 8, 254-260.	1.2	19
443	Adaptive GSA-Based Optimal Tuning of PI Controlled Servo Systems With Reduced Process Parametric Sensitivity, Robust Stability and Controller Robustness. IEEE Transactions on Cybernetics, 2014, 44, 1997-2009.	6.2	45
444	Application of quantum-inspired binary gravitational search algorithm for thermal unit commitment with wind power integration. Energy Conversion and Management, 2014, 87, 589-598.	4.4	71
445	Graph planarization problem optimization based on triple-valued gravitational search algorithm. IEEE Transactions on Electrical and Electronic Engineering, 2014, 9, 39-48.	0.8	33
446	A novel approach for economic dispatch of hydrothermal system via gravitational search algorithm. Applied Mathematics and Computation, 2014, 247, 535-546.	1.4	31
447	Gravitation search algorithm: Application to the optimal IIR filter design. Journal of King Saud University, Engineering Sciences, 2014, 26, 69-81.	1.2	35
448	Crisscross optimization algorithm and its application. Knowledge-Based Systems, 2014, 67, 218-229.	4.0	143
449	Robust outlier detection using the instability factor. Knowledge-Based Systems, 2014, 63, 15-23.	4.0	54
450	Optimal gravitational search algorithm for automatic generation control of interconnected power systems. Ain Shams Engineering Journal, 2014, 5, 721-733.	3.5	152
451	Bacterial colony foraging optimization. Neurocomputing, 2014, 137, 268-284.	3.5	24

#	ARTICLE	IF	CITATIONS
452	An evolutionary membrane algorithm for global numerical optimization problems. Information Sciences, 2014, 276, 219-241.	4.0	33
453	Gravitational search algorithm combined with chaos for unconstrained numerical optimization. Applied Mathematics and Computation, 2014, 231, 48-62.	1.4	117
454	Reconfigurable channel filtering and digital down conversion in optimal CSD space for software defined radio. AEU - International Journal of Electronics and Communications, 2014, 68, 312-321.	1.7	18
455	Binary bat algorithm. Neural Computing and Applications, 2014, 25, 663-681.	3.2	507
456	Feature subset selection by gravitational search algorithm optimization. Information Sciences, 2014, 281, 128-146.	4.0	70
457	A novel binary adaptive weight GSA based feature selection for face recognition using local gradient patterns, modified census transform, and local binary patterns. Engineering Applications of Artificial Intelligence, 2014, 33, 80-90.	4.3	36
458	Hurricane-based Optimization Algorithm. AASRI Procedia, 2014, 6, 26-33.	0.6	20
459	Solution of optimal power flow using nondominated sorting multi objective gravitational search algorithm. International Journal of Electrical Power and Energy Systems, 2014, 62, 323-334.	3.3	45
460	A novel local extrema based gravitational search algorithm and its application in face recognition using one training image per class. Engineering Applications of Artificial Intelligence, 2014, 34, 13-22.	4.3	23
461	Comparative performance of meta-heuristic algorithms for mass minimisation of trusses with dynamic constraints. Advances in Engineering Software, 2014, 75, 1-13.	1.8	84
462	A new approach for unit commitment problem via binary gravitational search algorithm. Applied Soft Computing Journal, 2014, 22, 249-260.	4.1	95
463	Animal migration optimization: an optimization algorithm inspired by animal migration behavior. Neural Computing and Applications, 2014, 24, 1867-1877.	3.2	237
464	Channel assignment in multi-radio wireless mesh networks using an improved gravitational search algorithm. Journal of Network and Computer Applications, 2014, 38, 163-171.	5.8	47
465	Intelligent energy allocation strategy for PHEV charging station using gravitational search algorithm. , 2014, , .		12
466	Optimization of PI and Fuzzy-PI Controllers on Simulation Model of Szabad(ka)-II Walking Robot. International Journal of Advanced Robotic Systems, 2014, 11, 186.	1.3	18
467	Application of Control Point-Based Aerodynamic Shape Optimization to Two-Dimensional Drag Minimization. , 2014, , .		19
468	Detection of tooth fractures in CBCT images using attention index estimation. , 2014, , .		0
469	Genetic Algorithm using Theory of Chaos. Procedia Computer Science, 2015, 51, 316-325.	1.2	40

#	ARTICLE	IF	CITATIONS
470	Gravitational search algorithm for synthesis of selectively thinned concentric ring array antenna with minimum sidelobe level and with fixed and variable first null beamwidth. International Journal of Microwave and Wireless Technologies, 2015, 7, 775-781.	1.5	7
471	Investigating stochastic diffusion search in data clustering. , 2015, , .		1
472	Development of Backtracking Search Optimization Algorithm Toolkit in LabVIEW®,ç. Procedia Computer Science, 2015, 57, 241-248.	1.2	11
473	sEMG based movement quantitative estimation of joints using SVM method with gravitational search algorithm. , 2015, , .		3
474	Simultaneous Computation of Model Order and Parameter Estimation for System Identification Based on Gravitational Search Algorithm. , 2015, , .		3
475	Gravitational search algorithm based design of optimal wideband IIR digital differentiator. , 2015, , .		1
476	Modeling of SBR aerobic granular sludge using neural network with GSA and IW-PSO. , 2015, , .		1
477	Power system state estimation using gravitational search algorithm. , 2015, , .		15
478	A GSA based improved MPPT system for PV generation. , 2015, , .		2
479	Gravitational search algorithm for probabilistic design of HBPS canals. ISH Journal of Hydraulic Engineering, 2015, 21, 290-297.	1.1	3
480	Optimal location of FACTS device using meta heuristic search algorithm. , 2015, , .		7
481	Free-Form Aerodynamic Wing Optimization Using Mathematically-Derived Design Variables. , 2015, , .		5
482	An efficient improved particle swarm optimization based on prey behavior of fish schooling. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2015, 9, JAMDSM0048-JAMDSM0048.	0.3	12
483	Chaotic inertia weight in black hole algorithm for function optimization. , 2015, , .		7
484	A predictable artificial physics optimisation algorithm. International Journal of Computing Science and Mathematics, 2015, 6, 459.	0.2	2
485	A stable bio-inspired resource assignment strategy for elastic traffic. International Journal of Computational Vision and Robotics, 2015, 5, 55.	0.2	0
486	Comparison of GSA and hybrid PSOGSA tuned controller for a nonlinear SISO system. International Journal of Enterprise Network Management, 2015, 6, 175.	0.2	1
487	Optimal probabilistic reconfiguration of smart distribution grids considering penetration of plug-in hybrid electric vehicles. Journal of Intelligent and Fuzzy Systems, 2015, 29, 1847-1855.	0.8	34

#	ARTICLE	IF	CITATIONS
488	Cognitive discrete gravitational search algorithm for solving 0-1 knapsack problem. Journal of Intelligent and Fuzzy Systems, 2015, 29, 2247-2258.	0.8	11
489	A new method based on fuzzy system and gravitational optimal detector for capacitor placement, considering nonlinear loads. , 2015, , .		1
490	A Nature Inspired Heuristic Optimization Algorithm Based on Lightning. , 2015, , .		3
491	Election algorithm: A new socio-politically inspired strategy. AI Communications, 2015, 28, 591-603.	0.8	60
492	Volumetric Shape Parameterisation for Combined Aerodynamic Geometry and Topology Optimisation. , 2015, , .		9
493	A hybrid data clustering approach based on improved cat swarm optimization and K-harmonic mean algorithm. AI Communications, 2015, 28, 751-764.	0.8	63
494	Weight Minimization of Helical Compression Spring Using Gravitational Search Algorithm (GSA). Applied Mechanics and Materials, 2015, 773-774, 277-281.	0.2	3
495	A Clustering Based Archive Multi Objective Gravitational Search Algorithm. Fundamenta Informaticae, 2015, 138, 387-409.	0.3	7
496	Design optimization of permanent magnet synchronous machine for vertical axis wind turbine using gravitational search algorithm. , 2015, , .		4
497	A Multi-state Gravitational Search Algorithm for Combinatorial Optimization Problems. , 2015, , .		0
498	An improved gravitational search algorithm and its performance analysis for multi-robot path planning. , 2015, , .		6
499	Automatic generation control using disrupted gravitational search algorithm based proportional integral derivative controller. , 2015, , .		2
500	Design of multiplier-less continuously variable bandwidth sharp FIR filters using modified harmony search algorithm. International Journal of Information Technology and Management, 2015, 14, 5.	0.1	2
501	Radio ground-to-air interference signals recognition based on support vector machine. , 2015, , .		2
502	A Comparative Study of Improved Bat Algorithm and Bat Algorithm on Numerical Benchmarks. , 2015, , .		7
503	Optimal placement of phasor measurement units to obtain network observability using a hybrid PSOâ€“GSA algorithm. Australian Journal of Electrical and Electronics Engineering, 2015, 12, 342-349.	0.7	3
504	Automated emotion recognition employing a novel modified binary quantumâ€“behaved gravitational search algorithm with differential mutation. Expert Systems, 2015, 32, 522-530.	2.9	16
505	Probabilistic ownership cost optimisation for video content distribution. International Journal of Communication Networks and Distributed Systems, 2015, 15, 350.	0.3	0

#	ARTICLE	IF	CITATIONS
506	Preventive maintenance optimization in hybrid solar gas power system using gravitational search algorithm. , 2015, , .		1
507	The combing optimizer. , 2015, , .		0
508	Power system stability improvement by static synchronous series compensator-based damping controller employing gravitational search algorithm. International Journal of Computational Science and Engineering, 2015, 11, 143.	0.4	3
509	DOA Estimation Based on GSA for CDMA Signals. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2015, E98.A, 2182-2186.	0.2	0
510	Fuzzy and Gravitational Search Based Routing Protocol for Lifetime Enhancement in Wireless Sensor Networks. Research Journal of Applied Sciences, Engineering and Technology, 2015, 9, 205-214.	0.1	2
511	A New Swarm Intelligence Approach for Clustering Based on Krill Herd with Elitism Strategy. Algorithms, 2015, 8, 951-964.	1.2	26
512	A Novel Quantum-Behaved Lightning Search Algorithm Approach to Improve the Fuzzy Logic Speed Controller for an Induction Motor Drive. Energies, 2015, 8, 13112-13136.	1.6	30
513	GSA-Tuning IPD Control of a Field-Sensed Magnetic Suspension System. Sensors, 2015, 15, 31781-31793.	2.1	4
514	Using Gravitational Search Algorithm for in Advance Reservation of Resources in Solving the Scheduling Problem of Works in Workflow Workshop Environment. Indian Journal of Science and Technology, 2015, 8, .	0.5	7
515	Seismic Reliability-Based Design Optimization of Reinforced Concrete Structures Including Soil-Structure Interaction Effects. , 0, , .		7
516	Conformal Array Pattern Synthesis and Activated Elements Selection Strategy Based on PSO-GSA Algorithm. International Journal of Antennas and Propagation, 2015, 2015, 1-11.	0.7	13
517	Accelerated Simplified Swarm Optimization with Exploitation Search Scheme for Data Clustering. PLoS ONE, 2015, 10, e0137246.	1.1	21
518	Feed-Forward Neural Network Soft-Sensor Modeling of Flotation Process Based on Particle Swarm Optimization and Gravitational Search Algorithm. Computational Intelligence and Neuroscience, 2015, 2015, 1-10.	1.1	8
519	Hybrid RGSA and Support Vector Machine Framework for Three-Dimensional Magnetic Resonance Brain Tumor Classification. Scientific World Journal, The, 2015, 2015, 1-14.	0.8	11
520	Design of Digital IIR Filter with Conflicting Objectives Using Hybrid Gravitational Search Algorithm. Mathematical Problems in Engineering, 2015, 2015, 1-16.	0.6	13
521	Enhanced GSA-Based Optimization for Minimization of Power Losses in Power System. Mathematical Problems in Engineering, 2015, 2015, 1-13.	0.6	13
522	Swarm Intelligence-Based Smart Energy Allocation Strategy for Charging Stations of Plug-In Hybrid Electric Vehicles. Mathematical Problems in Engineering, 2015, 2015, 1-10.	0.6	16
523	Gravitational Search Algorithm and Selection Approach for Optimal Distribution Network Configuration Based on Daily Photovoltaic and Loading Variation. Journal of Applied Mathematics, 2015, 2015, 1-11.	0.4	7

#	ARTICLE	IF	CITATIONS
524	Adaptive Central Force Optimization Algorithm Based on the Stability Analysis. <i>Mathematical Problems in Engineering</i> , 2015, 2015, 1-10.	0.6	2
525	Grey Wolf Optimizer Based on Powell Local Optimization Method for Clustering Analysis. <i>Discrete Dynamics in Nature and Society</i> , 2015, 2015, 1-17.	0.5	56
526	Fuzzy Controller Design Using Evolutionary Techniques for Twin Rotor MIMO System: A Comparative Study. <i>Computational Intelligence and Neuroscience</i> , 2015, 2015, 1-11.	1.1	20
527	An Efficient Optimization Method for Solving Unsupervised Data Classification Problems. <i>Computational and Mathematical Methods in Medicine</i> , 2015, 2015, 1-9.	0.7	5
528	Identification of CTQs for Complex Products Based on Mutual Information and Improved Gravitational Search Algorithm. <i>Mathematical Problems in Engineering</i> , 2015, 2015, 1-6.	0.6	2
529	OPTIMAL TIMAH TASOH RESERVOIR IN, PERLIS: AN OPERATION USING THE GRAVITATIONAL SEARCH ALGORITHM (GSA). <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2015, 77, .	0.3	1
530	Gene Clustering Using Metaheuristic Optimization Algorithms. <i>International Journal of Applied Metaheuristic Computing</i> , 2015, 6, 14-38.	0.5	11
531	Artificial Bee Colony Optimizer with Bee-to-Bee Communication and Multipopulation Coevolution for Multilevel Threshold Image Segmentation. <i>Mathematical Problems in Engineering</i> , 2015, 2015, 1-23.	0.6	4
532	Feature Selection and Recognition of Face by using Hybrid Chaotic PSO-BFO and Appearance-Based Recognition Algorithms. <i>International Journal of Natural Computing Research</i> , 2015, 5, 26-53.	0.5	9
533	Gravitational Search Algorithm Optimization for PID Controller Tuning in Waste-water Treatment Process. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2015, 73, .	0.3	6
534	A HYBRID GENETIC ALGORITHM AND GRAVITATIONAL SEARCH ALGORITHM FOR GLOBAL OPTIMIZATION. <i>Neural Network World</i> , 2015, 25, 53-73.	0.5	20
535	A self adaptive hybrid enhanced artificial bee colony algorithm for continuous optimization problems. <i>BioSystems</i> , 2015, 132-133, 43-53.	0.9	15
536	Disruption based gravitational search algorithm for short term hydrothermal scheduling. <i>Expert Systems With Applications</i> , 2015, 42, 7000-7011.	4.4	69
537	Optimal Generation Control of Interconnected Power System Including DFIG-Based Wind Turbine. <i>IETE Journal of Research</i> , 2015, 61, 285-299.	1.8	27
538	Gradient gravitational search: An efficient metaheuristic algorithm for global optimization. <i>Journal of Computational Chemistry</i> , 2015, 36, 1060-1068.	1.5	18
539	Hybrid Gravitational Search and Particle Swarm Based Fuzzy MLP for Medical Data Classification. <i>Smart Innovation, Systems and Technologies</i> , 2015, , 35-43.	0.5	5
540	Particle Swarm Optimization-Based Clustering by Preventing Residual Nodes in Wireless Sensor Networks. <i>IEEE Sensors Journal</i> , 2015, 15, 4264-4274.	2.4	129
541	Clustered-gravitational search algorithm and its application in parameter optimization of a low noise amplifier. <i>Applied Mathematics and Computation</i> , 2015, 258, 436-453.	1.4	43

#	ARTICLE	IF	CITATIONS
542	A novel hybrid system for feature selection based on an improved gravitational search algorithm and k-NN method. Applied Soft Computing Journal, 2015, 31, 293-307.	4.1	60
543	Study impact of various load models on DG placement and sizing using backtracking search algorithm. Applied Soft Computing Journal, 2015, 30, 803-811.	4.1	59
544	Design of Posicast PID control systems using a gravitational search algorithm. Neurocomputing, 2015, 167, 18-23.	3.5	27
545	A novel approach for fuzzy logic PV inverter controller optimization using lightning search algorithm. Neurocomputing, 2015, 168, 435-453.	3.5	36
546	Review of recent trends in optimization techniques for solar photovoltaic-wind based hybrid energy systems. Renewable and Sustainable Energy Reviews, 2015, 50, 755-769.	8.2	398
547	Analysis on stability conditions for the gravitational search algorithm. , 2015, , .		0
548	Search Economics: A Solution Space and Computing Resource Aware Search Method. , 2015, , .		18
549	Portfolio selection models in uncertain environment. , 2015, , .		0
550	Development of thin dual-layer alumina-iron composite coatings for enhanced microwave absorption. , 2015, , .		0
551	Two-Step gravitational search algorithm. , 2015, , .		0
552	Non-uniform cosine modulated filter banks using meta-heuristic algorithms in CSD space. Journal of Advanced Research, 2015, 6, 839-849.	4.4	17
553	Rule-based multi-state gravitational search algorithm for discrete optimization problem. , 2015, , .		0
554	Economic operation of two area power system through gravitational search algorithm. , 2015, , .		1
555	A New Improved Gravitational Search Algorithm for Function Optimization Using a Novel "Best-So-Far" Update Mechanism. , 2015, , .		5
556	Optimized hyperspectral band selection using hybrid genetic algorithm and gravitational search algorithm. Proceedings of SPIE, 2015, , .	0.8	0
557	Investigating voltage stability problem in the electrical power system using gravitational search algorithms. , 2015, , .		1
558	Design and implementation of FOPID controllers by PSO, GSA and PSO-GSA for MagLev system. , 2015, , .		14
559	Optimal DG placement and capacity allocation using intelligent algorithms. , 2015, , .		8

#	ARTICLE	IF	CITATIONS
560	Computational intelligence technique in optimization of nano-process deposition parameters. , 2015, , .		0
561	Parametric identification of Box-Jenkins structured closed-loop Hammerstein systems using gravitational search algorithm. , 2015, , .		1
562	Improved Teaching-Learning-Based Optimization algorithms for function optimization. , 2015, , .		1
563	A memetic gravitation search algorithm for solving clustering problems. , 2015, , .		5
565	Gravitational Search Algorithm for Engineering: A Review. Applied Mechanics and Materials, 2015, 815, 417-420.	0.2	1
566	GSA-based optimal backstepping controller with a fuzzy compensator for robust control of an autonomous quadrotor UAV. Aircraft Engineering and Aerospace Technology, 2015, 87, 493-505.	0.8	8
567	Automatic digital modulation classification for ORS satellite relay communication. , 2015, , .		3
568	A Feature Subset Selection Algorithm Based on Feature Activity and Improved GA. , 2015, , .		0
569	Fuzzy-VQ image compression based hybrid PSO-GSA optimization algorithm. , 2015, , .		6
570	An enhanced gravitational search algorithm for global optimisation. International Journal of Wireless and Mobile Computing, 2015, 9, 273.	0.1	12
571	A hybrid multi-objective PSO-GSA approach for environmental/economic dispatch. , 2015, , .		3
572	Application of the bio-inspired Krill Herd optimization technique to phase equilibrium calculations. Computers and Chemical Engineering, 2015, 74, 75-88.	2.0	22
573	The design approaches of two-dimensional digital filters based on metaheuristic optimization algorithms: a review of the literature. Artificial Intelligence Review, 2015, 44, 265-287.	9.7	27
574	An improved magnetic charged system search for optimization of truss structures with continuous and discrete variables. Applied Soft Computing Journal, 2015, 28, 400-410.	4.1	49
575	Roach infestation optimization with friendship centers. Engineering Applications of Artificial Intelligence, 2015, 39, 109-119.	4.3	15
576	Evolutionary population dynamics and grey wolf optimizer. Neural Computing and Applications, 2015, 26, 1257-1263.	3.2	277
577	A new approach to dual channel speech enhancement based on hybrid PSO-GSA. International Journal of Speech Technology, 2015, 18, 45-56.	1.4	11
578	A quantum-inspired gravitational search algorithm for binary encoded optimization problems. Engineering Applications of Artificial Intelligence, 2015, 40, 62-75.	4.3	81

#	ARTICLE	IF	CITATIONS
579	PSOGSA-Explore: A new hybrid metaheuristic approach for beampattern optimization in collaborative beamforming. Applied Soft Computing Journal, 2015, 30, 229-237.	4.1	59
580	Parametric optimization of ultrasonic machining process using gravitational search and fireworks algorithms. Ain Shams Engineering Journal, 2015, 6, 315-331.	3.5	39
581	Using gravitational search algorithm in prototype generation for nearest neighbor classification. Neurocomputing, 2015, 157, 256-263.	3.5	29
582	Brainstorm optimisation algorithm (BSOA): An efficient algorithm for finding optimal location and setting of FACTS devices in electric power systems. International Journal of Electrical Power and Energy Systems, 2015, 69, 48-57.	3.3	119
583	Neuro-Fuzzy GMDH to Predict the Scour Pile Groups due to Waves. Journal of Computing in Civil Engineering, 2015, 29, .	2.5	93
584	PSGO: Particle Swarm Gravitation Optimization Algorithm. Journal of Intelligent and Fuzzy Systems, 2015, 28, 2655-2665.	0.8	7
585	A novel hybrid gravitational search and pattern search algorithm for load frequency control of nonlinear power system. Applied Soft Computing Journal, 2015, 29, 310-327.	4.1	137
586	Swarm Intelligence Techniques and Their Adaptive Nature with Applications. Studies in Fuzziness and Soft Computing, 2015, , 253-273.	0.6	9
587	Automatic Unsupervised Feature Selection using Gravitational Search Algorithm. IETE Journal of Research, 2015, 61, 22-31.	1.8	14
588	Design of totally multiplier-less sharp transition width tree structured filter banks for non-uniform discrete multitone system. AEU - International Journal of Electronics and Communications, 2015, 69, 655-665.	1.7	10
589	An Empirical Study of Some Particle Swarm Optimizer Variants for Community Detection. Advances in Intelligent Systems and Computing, 2015, , 511-520.	0.5	6
590	Optimal setting of TCSCs in power systems using teaching-learning-based optimisation algorithm. Neural Computing and Applications, 2015, 26, 1249-1256.	3.2	26
591	Metric-Based Mathematical Derivation of Efficient Airfoil Design Variables. AIAA Journal, 2015, 53, 1349-1361.	1.5	89
592	Parameter identification of chaotic systems using artificial raindrop algorithm. Journal of Computational Science, 2015, 8, 20-31.	1.5	37
593	Balance Particle Swarm Optimization and gravitational search algorithm for energy efficient in heterogeneous wireless sensor networks. , 2015, , .		1
594	Optimized support vector regression model by improved gravitational search algorithm for flatness pattern recognition. Neural Computing and Applications, 2015, 26, 1167-1177.	3.2	14
595	Economic analysis to implement distributed generation system in a rail-way rake maintenance depot. Renewable Energy, 2015, 78, 157-164.	4.3	9
596	Seed Disperser Ant Algorithm: An Evolutionary Approach for Optimization. Lecture Notes in Computer Science, 2015, , 643-654.	1.0	4

#	ARTICLE	IF	CITATIONS
597	Multiobjective optimization algorithms for motif discovery in DNA sequences. <i>Genetic Programming and Evolvable Machines</i> , 2015, 16, 167-209.	1.5	4
598	The Ant Lion Optimizer. <i>Advances in Engineering Software</i> , 2015, 83, 80-98.	1.8	2,392
599	Quasi-oppositional harmony search algorithm and fuzzy logic controller for load frequency stabilisation of an isolated hybrid power system. <i>IET Generation, Transmission and Distribution</i> , 2015, 9, 427-444.	1.4	44
600	An approach for designing passive power filters for industrial power systems by using gravitational search algorithm. <i>Tehnicki Vjesnik</i> , 2015, 22, 343-349.	0.3	3
601	Optimizing parameters of support vector machines using team-search-based particle swarm optimization. <i>Engineering Computations</i> , 2015, 32, 1194-1213.	0.7	12
602	Training Artificial Neural Networks by a Hybrid PSO-CS Algorithm. <i>Algorithms</i> , 2015, 8, 292-308.	1.2	56
603	Optimisation of electric distribution systems: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 51, 1088-1100.	8.2	75
604	Lightning search algorithm. <i>Applied Soft Computing Journal</i> , 2015, 36, 315-333.	4.1	324
605	Optimal dynamic expansion planning of distribution systems considering non-renewable distributed generation using a new heuristic double-stage optimization solution approach. <i>Applied Energy</i> , 2015, 156, 655-665.	5.1	34
606	A novel single multiplicative neuron model trained by an improved glowworm swarm optimization algorithm for time series prediction. <i>Knowledge-Based Systems</i> , 2015, 88, 195-209.	4.0	24
607	Evaluation of GMDH networks for prediction of local scour depth at bridge abutments in coarse sediments with thinly armored beds. <i>Ocean Engineering</i> , 2015, 104, 387-396.	1.9	48
608	A rule-based development of incremental models. <i>International Journal of Approximate Reasoning</i> , 2015, 64, 20-38.	1.9	7
609	A novel approach to capture the maximum power from variable speed wind turbines using PI controller, RBF neural network and GSA evolutionary algorithm. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 51, 1023-1037.	8.2	66
610	A new method for image segmentation based on BP neural network and gravitational search algorithm enhanced by cat chaotic mapping. <i>Applied Intelligence</i> , 2015, 43, 855-873.	3.3	46
611	A new hybrid GA-GSA algorithm for tuning damping controller parameters for a unified power flow controller. <i>International Journal of Electrical Power and Energy Systems</i> , 2015, 73, 1060-1069.	3.3	53
612	Employing Nelder-Mead and Gravitational Search Algorithm Methods in Point Clouds Registration Process. <i>Procedia Technology</i> , 2015, 19, 112-119.	1.1	1
613	Hybrid method for designing digital FIR filters based on fractional derivative constraints. <i>ISA Transactions</i> , 2015, 58, 493-508.	3.1	31
614	Heat transfer search (HTS): a novel optimization algorithm. <i>Information Sciences</i> , 2015, 324, 217-246.	4.0	209

#	ARTICLE	IF	CITATIONS
615	Optimal design of wideband digital integrators using gravitational search algorithm. , 2015, , .		8
616	Selection of Optimum Process Parameters in High Speed CNC End-Milling of Composite Materials Using Meta Heuristic Techniques â€” a Comparative Study. Strojnicki Vestnik/Journal of Mechanical Engineering, 2015, 61, 176-186.	0.6	9
617	Short-term wind power prediction based on LSSVMâ€”GSA model. Energy Conversion and Management, 2015, 101, 393-401.	4.4	210
618	A novel gravitational acceleration enhanced particle swarm optimization algorithm for windâ€™ thermal economic emission dispatch problem considering wind power availability. International Journal of Electrical Power and Energy Systems, 2015, 73, 1035-1050.	3.3	62
619	Moth-flame optimization algorithm: A novel nature-inspired heuristic paradigm. Knowledge-Based Systems, 2015, 89, 228-249.	4.0	3,142
620	A Strength Pareto Gravitational Search Algorithm for Multi-Objective Optimization Problems. International Journal of Pattern Recognition and Artificial Intelligence, 2015, 29, 1559010.	0.7	5
621	A novel hybrid algorithm of GSA with Kepler algorithm for numerical optimization. Journal of King Saud University - Computer and Information Sciences, 2015, 27, 288-296.	2.7	9
622	Neuro-Fuzzy GMDH-Based Evolutionary Algorithms to Predict Flow Discharge in Straight Compound Channels. Journal of Hydrologic Engineering - ASCE, 2015, 20, 04015035.	0.8	49
623	Simulation and Surrogate-Based Design of Rectangular Vortex Generators for Tiltrotor Aircraft Wings. , 2015, , .		2
624	Energy management of a grid-tied residential-scale hybrid renewable generation system incorporating fuel cell and electrolyzer. Energy and Buildings, 2015, 102, 406-416.	3.1	40
625	Unsupervised feature selection using binary bat algorithm. , 2015, , .		23
626	A Novel Physics Inspired Multi-objective Optimization Algorithm: Multiple Objective Gravitational Optimization. , 2015, , .		0
627	Harmony Search algorithm: a variant with Self-regulated Fretwidth. Applied Mathematics and Computation, 2015, 266, 1127-1152.	1.4	23
628	A new intelligent method for minerals segmentation in thin sections based on a novel incremental color clustering. Computers and Geosciences, 2015, 81, 38-52.	2.0	40
629	Neuro-fuzzy GMDH systems based evolutionary algorithms to predict scour pile groups in clear water conditions. Ocean Engineering, 2015, 99, 85-94.	1.9	67
630	Modified cuckoo optimization algorithm (MCOA) to solve graph coloring problem. Applied Soft Computing Journal, 2015, 33, 48-64.	4.1	56
631	A meta-heuristic solution for automated refutation of complex software systems specified through graph transformations. Applied Soft Computing Journal, 2015, 33, 136-149.	4.1	27
632	An overview on fault diagnosis and nature-inspired optimal control of industrial process applications. Computers in Industry, 2015, 74, 75-94.	5.7	136

#	ARTICLE	IF	CITATIONS
633	Design of a new adaptive neuro-fuzzy inference system based on a solution for clustering in a data potential field. <i>Fuzzy Sets and Systems</i> , 2015, 279, 64-86.	1.6	18
634	Fuzzy logic in the gravitational search algorithm for the optimization of modular neural networks in pattern recognition. <i>Expert Systems With Applications</i> , 2015, 42, 5839-5847.	4.4	59
635	A review on optimization algorithms and application to wind energy integration to grid. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 48, 214-227.	8.2	82
636	An assembly sequence planning approach with a rule-based multi-state gravitational search algorithm. <i>International Journal of Advanced Manufacturing Technology</i> , 2015, 79, 1363-1376.	1.5	25
637	Time delay approach for PSS and SSSC based coordinated controller design using hybrid PSO-GSA algorithm. <i>International Journal of Electrical Power and Energy Systems</i> , 2015, 71, 262-273.	3.3	73
638	Optimum network selection in heterogeneous wireless environment using gravitational search algorithm. , 2015, , .		1
639	An introduction to swarming robotics: application development trends. <i>Artificial Intelligence Review</i> , 2015, 43, 501-514.	9.7	9
640	A Biologically Inspired Modified Flower Pollination Algorithm for Solving Economic Dispatch Problems in Modern Power Systems. <i>Cognitive Computation</i> , 2015, 7, 594-608.	3.6	76
641	Controlling Wall Following Robot Navigation Based on Gravitational Search and Feed Forward Neural Network. , 2015, , .		17
642	Reactive power planning with FACTS devices using gravitational search algorithm. <i>Ain Shams Engineering Journal</i> , 2015, 6, 865-871.	3.5	24
643	Hybrid teaching-learning-based optimization algorithms for the Quadratic Assignment Problem. <i>Computers and Industrial Engineering</i> , 2015, 85, 86-101.	3.4	68
644	A novel Chemical Reaction Optimization based Higher order Neural Network (CRO-HONN) for nonlinear classification. <i>Ain Shams Engineering Journal</i> , 2015, 6, 1069-1091.	3.5	37
645	TSA: Tree-seed algorithm for continuous optimization. <i>Expert Systems With Applications</i> , 2015, 42, 6686-6698.	4.4	241
646	A novel robust hybrid gravitational search algorithm for reusable launch vehicle approach and landing trajectory optimization. <i>Neurocomputing</i> , 2015, 162, 116-127.	3.5	39
647	Evaluation of Fitness Functions for Swarm Clustering Applied to Gene Expression Data. <i>Smart Innovation, Systems and Technologies</i> , 2015, , 571-581.	0.5	2
648	Ions motion algorithm for solving optimization problems. <i>Applied Soft Computing Journal</i> , 2015, 32, 72-79.	4.1	181
649	A hybrid heuristic workflow scheduling algorithm for cloud computing environments. <i>Journal of Experimental and Theoretical Artificial Intelligence</i> , 2015, 27, 721-735.	1.8	24
650	Adaptive division of labor particle swarm optimization. <i>Expert Systems With Applications</i> , 2015, 42, 5887-5903.	4.4	25

#	ARTICLE	IF	CITATIONS
651	Optimization of UPFC location and capacity to improve the stability using ABC and GSA algorithm. , 2015, , .		1
652	Multi-Objective Optimization and Multi-Attribute Decision Making for a Novel Batch Scheduling Problem Based on Mould Capabilities. Springer Proceedings in Mathematics and Statistics, 2015, , 275-297.	0.1	0
653	Vector-based swarm optimization algorithm. Applied Soft Computing Journal, 2015, 37, 911-922.	4.1	4
654	Design of low complexity sharp MDFT filter banks with perfect reconstruction using hybrid harmony-gravitational search algorithm. Engineering Science and Technology, an International Journal, 2015, 18, 648-657.	2.0	22
656	General Relativity Search Algorithm: A Global Optimization Approach. International Journal of Computational Intelligence and Applications, 2015, 14, 1550017.	0.6	21
657	Fuzzy logic in the gravitational search algorithm enhanced using fuzzy logic with dynamic alpha parameter value adaptation for the optimization of modular neural networks in echocardiogram recognition. Applied Soft Computing Journal, 2015, 37, 245-254.	4.1	34
658	A modified Gravitational Search Algorithm and its application. , 2015, , .		2
659	Structure and weights optimisation of a modified Elman network emotion classifier using hybrid computational intelligence algorithms: a comparative study. Connection Science, 2015, 27, 340-357.	1.8	7
660	A Gravitational Search Algorithm Based Static VAR Compensator Switching Function Optimization Technique for Minimum Harmonic Injection. Electric Power Components and Systems, 2015, 43, 2297-2310.	1.0	8
662	Priority based optimization of PID controller for automatic voltage regulator system using gravitational search algorithm. , 2015, , .		8
663	A new hybrid algorithm based on chaotic maps for solving systems of nonlinear equations. Chaos, Solitons and Fractals, 2015, 81, 233-245.	2.5	27
664	Review of Aerofoil Parameterisation Methods for Aerodynamic Shape Optimisation. , 2015, , .		37
665	Training feedforward neural networks using hybrid flower pollination-gravitational search algorithm. , 2015, , .		16
666	Multi-objective control strategy for energy management of grid-connected heterogeneous microgrids. , 2015, , .		2
667	Utilization of optimization methods cooperation for the improvement of optimization process. , 2015, , .		0
668	Stabilization and trajectory tracking control for underactuated quadrotor helicopter subject to wind-gust disturbance. Sadhana - Academy Proceedings in Engineering Sciences, 2015, 40, 1531-1553.	0.8	18
669	ITGO: Invasive tumor growth optimization algorithm. Applied Soft Computing Journal, 2015, 36, 670-698.	4.1	53
670	Control Point-Based Aerodynamic Shape Optimization Applied to AIAA ADODG Test Cases. , 2015, , .		38

#	ARTICLE	IF	CITATIONS
671	A comparative study of BA, APSO, GSA, hybrid PSO-GSA and SPSO in dual channel speech enhancement. International Journal of Speech Technology, 2015, 18, 663-671.	1.4	4
672	A new algorithm for data clustering based on gravitational search algorithm and genetic operators. , 2015, , .		6
673	Tuning maturity model of ecogeography-based optimization on CEC 2015 single-objective optimization test problems. , 2015, , .		6
674	Improved chaotic gravitational search algorithms for global optimization. , 2015, , .		26
675	A hybrid wind speed forecasting model based on phase space reconstruction theory and Markov model: A case study of wind farms in northwest China. Energy, 2015, 91, 556-572.	4.5	112
676	A new hybrid CS-GSA algorithm for function optimization. , 2015, , .		0
677	Application of metaheuristic algorithms in nano-process parameter optimization. , 2015, , .		4
678	A Repair Method for Differential Evolution with Combined Variants to Solve Dynamic Constrained Optimization Problems. , 2015, , .		10
679	Optimal Power Flow Using a Hybrid Optimization Algorithm of Particle Swarm Optimization and Gravitational Search Algorithm. Electric Power Components and Systems, 2015, 43, 1958-1970.	1.0	86
680	A data clustering approach based on universal gravity rule. Engineering Applications of Artificial Intelligence, 2015, 45, 415-428.	4.3	23
682	Development of a Grey Wolf Optimizer Toolkit in LabVIEW^{™}. , 2015, , .		5
683	Communication satellite link budget optimization using gravitational search algorithm. , 2015, , .		7
684	A simplified water wave optimization algorithm. , 2015, , .		29
685	Nature Inspired Computing: An Overview and Some Future Directions. Cognitive Computation, 2015, 7, 706-714.	3.6	170
686	Gravitational fixed radius nearest neighbor for imbalanced problem. Knowledge-Based Systems, 2015, 90, 224-238.	4.0	35
687	Gravitational search algorithm using CUDA: a case study in high-performance metaheuristics. Journal of Supercomputing, 2015, 71, 1277-1296.	2.4	10
688	Chaotic bat swarm optimisation (CBSO). Applied Soft Computing Journal, 2015, 26, 523-530.	4.1	125
689	A new design method for adaptive IIR system identification using hybrid particle swarm optimization and gravitational search algorithm. Nonlinear Dynamics, 2015, 79, 2553-2576.	2.7	41

#	ARTICLE	IF	CITATIONS
690	A nature-inspired approach to speed up optimum-path forest clustering and its application to intrusion detection in computer networks. <i>Information Sciences</i> , 2015, 294, 95-108.	4.0	54
691	A Hybrid Gravitational Search Algorithm and Back-Propagation for Training Feedforward Neural Networks. <i>Advances in Intelligent Systems and Computing</i> , 2015, , 381-392.	0.5	5
692	Memetic binary particle swarm optimization for discrete optimization problems. <i>Information Sciences</i> , 2015, 299, 58-84.	4.0	92
693	Optimal coordinate operation control for windâ€“photovoltaicâ€“battery storage power-generation units. <i>Energy Conversion and Management</i> , 2015, 90, 466-475.	4.4	77
694	A chaos embedded GSA-SVM hybrid system for classification. <i>Neural Computing and Applications</i> , 2015, 26, 713-721.	3.2	39
695	Advanced Metaheuristics-Based Approach for Fuzzy Control Systems Tuning. <i>Studies in Fuzziness and Soft Computing</i> , 2015, , 627-653.	0.6	5
696	A multi-start central force optimization for global optimization. <i>Applied Soft Computing Journal</i> , 2015, 27, 92-98.	4.1	18
697	Opposition versus randomness in binary spaces. <i>Applied Soft Computing Journal</i> , 2015, 27, 28-37.	4.1	18
698	Optimal IIR filter design using Gravitational Search Algorithm with Wavelet Mutation. <i>Journal of King Saud University - Computer and Information Sciences</i> , 2015, 27, 25-39.	2.7	16
699	Evolving personalized modeling system for integrated feature, neighborhood and parameter optimization utilizing gravitational search algorithm. <i>Evolving Systems</i> , 2015, 6, 1-14.	2.4	8
700	Diversity enhanced and local search accelerated gravitational search algorithm for data fitting with B-splines. <i>Engineering With Computers</i> , 2015, 31, 215-236.	3.5	6
701	How important is a transfer function in discrete heuristic algorithms. <i>Neural Computing and Applications</i> , 2015, 26, 625-640.	3.2	60
702	Water wave optimization: A new nature-inspired metaheuristic. <i>Computers and Operations Research</i> , 2015, 55, 1-11.	2.4	446
703	Parameter estimation of Takagiâ€“Sugeno fuzzy system using heterogeneous cuckoo search algorithm. <i>Neurocomputing</i> , 2015, 151, 1332-1342.	3.5	49
704	A memetic particle swarm optimization algorithm for solving the DNA fragment assembly problem. <i>Neural Computing and Applications</i> , 2015, 26, 495-506.	3.2	29
705	Optimal economic dispatch with valve loading effect using self-adaptive firefly algorithm. <i>Applied Intelligence</i> , 2015, 42, 276-288.	3.3	33
706	A new metaheuristic for optimization: Optics inspired optimization (OIO). <i>Computers and Operations Research</i> , 2015, 55, 99-125.	2.4	138
707	Enhanced leader PSO (ELPSO): A new PSO variant for solving global optimisation problems. <i>Applied Soft Computing Journal</i> , 2015, 26, 401-417.	4.1	207

#	ARTICLE	IF	CITATIONS
708	Solution of optimal power flow using non dominated sorting multi objective opposition based gravitational search algorithm. International Journal of Electrical Power and Energy Systems, 2015, 64, 1237-1250.	3.3	74
709	An opposition-based algorithm for function optimization. Engineering Applications of Artificial Intelligence, 2015, 37, 293-306.	4.3	55
710	Interactive gravitational search algorithm and pattern search algorithms for practical dynamic economic dispatch. International Transactions on Electrical Energy Systems, 2015, 25, 2289-2309.	1.2	14
711	Short-term economic environmental hydrothermal scheduling using improved multi-objective gravitational search algorithm. Energy Conversion and Management, 2015, 89, 127-136.	4.4	58
712	Optimal allocation of multi-type distributed generators using backtracking search optimization algorithm. International Journal of Electrical Power and Energy Systems, 2015, 64, 1197-1205.	3.3	302
713	Swarm intelligence applied in green logistics: A literature review. Engineering Applications of Artificial Intelligence, 2015, 37, 154-169.	4.3	115
714	Introduction to an optimization algorithm based on the chemical reactions. Information Sciences, 2015, 291, 85-95.	4.0	17
715	An improved gravitational search algorithm for solving short-term economic/environmental hydrothermal scheduling. Soft Computing, 2015, 19, 2783-2797.	2.1	16
716	A novel modified hybrid PSOGSA based on fuzzy logic for non-convex economic dispatch problem with valve-point effect. International Journal of Electrical Power and Energy Systems, 2015, 64, 121-135.	3.3	86
717	Distribution system efficiency improvement using network reconfiguration and capacitor allocation. International Journal of Electrical Power and Energy Systems, 2015, 64, 457-468.	3.3	59
718	Optimal capacitor placement in radial distribution system using Gravitational Search Algorithm. International Journal of Electrical Power and Energy Systems, 2015, 64, 384-397.	3.3	208
719	A novel intelligent protection system for power transformers considering possible electrical faults, inrush current, CT saturation and over-excitation. International Journal of Electrical Power and Energy Systems, 2015, 64, 1129-1140.	3.3	40
720	Evaluating the impact of FIT financial burden on social welfare in renewable expansion planning. Renewable Energy, 2015, 75, 199-209.	4.3	22
721	Stochastic Fractal Search: A powerful metaheuristic algorithm. Knowledge-Based Systems, 2015, 75, 1-18.	4.0	465
722	Enhanced leader PSO (ELPSO): A new algorithm for allocating distributed TCSCs in power systems. International Journal of Electrical Power and Energy Systems, 2015, 64, 771-784.	3.3	70
723	A new two-stage framework for voltage stability enhancement incorporating preventive and corrective control actions. International Transactions on Electrical Energy Systems, 2015, 25, 1492-1521.	1.2	3
724	Design of multiplier-less sharp transition width non-uniform filter banks using gravitational search algorithm. International Journal of Electronics, 2015, 102, 48-70.	0.9	6
725	Stochastic mid-term generation scheduling incorporated with wind power. International Journal of Electrical Power and Energy Systems, 2015, 64, 937-946.	3.3	9

#	ARTICLE	IF	CITATIONS
726	A modified gravitational search algorithm based on sequential quadratic programming and chaotic map for ELD optimization. Knowledge and Information Systems, 2015, 42, 689-708.	2.1	12
727	Cellular implementation of the great salmon run algorithm for designing a black-box identifier applied to engine coldstart modelling. International Journal of Computer Applications in Technology, 2016, 54, 23.	0.3	2
728	A Review on Optimization of Least Squares Support Vector Machine for Time Series Forecasting. International Journal of Artificial Intelligence & Applications, 2016, 7, 35-49.	0.3	13
729	New memetic self-adaptive firefly algorithm for continuous optimisation. International Journal of Bio-Inspired Computation, 2016, 8, 300.	0.6	44
730	Function Optimization and Parameter Performance Analysis Based on Gravitation Search Algorithm. Algorithms, 2016, 9, 3.	1.2	4
731	Enhanced Biogeography-based Optimization: A New Method for Size and Shape Optimization of Truss Structures with Natural Frequency Constraints. Latin American Journal of Solids and Structures, 2016, 13, 1406-1430.	0.6	28
732	Induction Motor Parameter Identification Using a Gravitational Search Algorithm. Computers, 2016, 5, 6.	2.1	12
733	Modeling and rotor field-oriented control of a faulty three-phase induction motor based on GSA for tuning of PI controllers. Turkish Journal of Electrical Engineering and Computer Sciences, 2016, 24, 2084-2105.	0.9	5
734	Hybrid BFO and PSO Swarm Intelligence Approach for Biometric Feature Optimization. International Journal of Swarm Intelligence Research, 2016, 7, 36-62.	0.5	10
735	Parameter Extraction of Solar Photovoltaic Modules Using Gravitational Search Algorithm. Journal of Electrical and Computer Engineering, 2016, 2016, 1-6.	0.6	9
736	LÃ©vy-Flight Moth-Flame Algorithm for Function Optimization and Engineering Design Problems. Mathematical Problems in Engineering, 2016, 2016, 1-22.	0.6	43
737	A "Tuned" Mask Learnt Approach Based on Gravitational Search Algorithm. Computational Intelligence and Neuroscience, 2016, 2016, 1-16.	1.1	5
738	Modified Grey Wolf Optimizer for Global Engineering Optimization. Applied Computational Intelligence and Soft Computing, 2016, 2016, 1-16.	1.6	207
739	Optimal Siting and Sizing of Multiple DG Units for the Enhancement of Voltage Profile and Loss Minimization in Transmission Systems Using Nature Inspired Algorithms. Scientific World Journal, The, 2016, 2016, 1-16.	0.8	26
740	A Hybrid Short-Term Traffic Flow Prediction Model Based on Singular Spectrum Analysis and Kernel Extreme Learning Machine. PLoS ONE, 2016, 11, e0161259.	1.1	35
741	Optimal Design of Steel Towers Using a Multi-Metaheuristic Based Search Method. Periodica Polytechnica: Civil Engineering, 2016, 60, 229-246.	0.6	7
742	Development of optimization model for sputtering process parameter based on gravitational search algorithm. AIP Conference Proceedings, 2016, , .	0.3	0
743	Training Feedforward Neural Networks Using Symbiotic Organisms Search Algorithm. Computational Intelligence and Neuroscience, 2016, 2016, 1-14.	1.1	62

#	ARTICLE	IF	CITATIONS
744	A Novel Complex-Valued Encoding Grey Wolf Optimization Algorithm. <i>Algorithms</i> , 2016, 9, 4.	1.2	34
745	Binary Cockroach Swarm Optimization for Combinatorial Optimization Problem. <i>Algorithms</i> , 2016, 9, 59.	1.2	11
746	Optimization of Nano-Process Deposition Parameters Based on Gravitational Search Algorithm. <i>Computers</i> , 2016, 5, 12.	2.1	2
747	A Wireless Sensor Network with Soft Computing Localization Techniques for Track Cycling Applications. <i>Sensors</i> , 2016, 16, 1043.	2.1	46
748	Multi-population genetic algorithm with Hierarchical execution. , 2016, , .		2
749	Atom stabilization algorithm and its real life applications. <i>Journal of Intelligent and Fuzzy Systems</i> , 2016, 30, 2189-2201.	0.8	6
750	Application of the Elitist-Mutated PSO and an Improved GSA to Estimate Parameters of Linear and Nonlinear Muskingum Flood Routing Models. <i>PLoS ONE</i> , 2016, 11, e0147338.	1.1	11
751	An Experience Oriented-Convergence Improved Gravitational Search Algorithm for Minimum Variance Distortionless Response Beamforming Optimum. <i>PLoS ONE</i> , 2016, 11, e0156749.	1.1	9
752	A Multi-Verse Optimizer with Levy Flights for Numerical Optimization and Its Application in Test Scheduling for Network-on-Chip. <i>PLoS ONE</i> , 2016, 11, e0167341.	1.1	45
753	An Appraisal of Meta-Heuristic Resource Allocation Techniques for IaaS Cloud. <i>Indian Journal of Science and Technology</i> , 2016, 9, .	0.5	58
754	Gravitational search algorithm for determining controller parameters in an automatic voltage regulator system. <i>Turkish Journal of Electrical Engineering and Computer Sciences</i> , 2016, 24, 2387-2400.	0.9	35
755	Gravitational search algorithm-based dynamic economic dispatch by estimating transmission system losses using A-loss coefficients. <i>Turkish Journal of Electrical Engineering and Computer Sciences</i> , 2016, 24, 3769-3781.	0.9	4
757	A soft sensor for industrial melt index prediction based on evolutionary extreme learning machine. <i>Chinese Journal of Chemical Engineering</i> , 2016, 24, 1013-1019.	1.7	30
758	How effective is Black Hole Algorithm?. , 2016, , .		3
759	iCPBBOCO: A Combination Evaluation Algorithm Based on the Extensional BBO. , 2016, , .		1
760	An intelligent multi-robot path planning in a dynamic environment using improved gravitational search algorithm. <i>International Journal of Automation and Computing</i> , 2021, 18, 1032-1044.	4.5	9
761	APPLICATIONS OF GRAVITATIONAL SEARCH ALGORITHM IN ENGINEERING. <i>Journal of Civil Engineering and Management</i> , 2016, 22, 981-990.	1.9	18
762	Improved shuffled frog leaping algorithm by using orthogonal experimental design. , 2016, , .		3

#	ARTICLE	IF	CITATIONS
763	Interval type-2 fuzzy logic gravitational search algorithm for the optimization of modular neural networks in echocardiogram recognition. , 2016, , .		2
764	ATC enhancement with SSSC-knowledge inference based intelligent controller tuning. , 2016, , .		5
765	Portfolio selection models based onÂCross-entropy of uncertain variables. Journal of Intelligent and Fuzzy Systems, 2016, 31, 737-747.	0.8	3
766	Comparison of optimal DG allocation based on sensitivity based and optimization based approach. , 2016, , .		3
767	Automatic generation control of multi-source interconnected power system including DFIG wind turbine. , 2016, , .		1
768	Long-term load forecasting based on gravitational search algorithm. Journal of Intelligent and Fuzzy Systems, 2016, 30, 3633-3643.	0.8	8
769	Fault diagnosis for missile autopilot based on GSA-SVM. , 2016, , .		1
770	Binomial crossover embedded shuffled frog leaping algorithm. , 2016, , .		2
771	Gravitational search algorithm combined with P&O method for MPPT in PV systems. , 2016, , .		4
772	Optimal StatCom placement using Gravitational Search Algorithm. , 2016, , .		3
773	Blind CFO estimation based on GSA for interleaved OFDMA uplink. , 2016, , .		0
774	Gravitational search algorithm: Discussion and state of art. , 2016, , .		0
775	Modified spider monkey optimization. , 2016, , .		12
776	Grey wolf gravitational search algorithm. , 2016, , .		3
777	How effective are meta-heuristics for recognising hand gestures. , 2016, , .		0
778	Hybridization of gravitational search algorithm and biogeography based optimization and its application on grid scheduling problem. , 2016, , .		1
779	Chaotic Kbest gravitational search algorithm (CKGSA). , 2016, , .		50
780	Gravitational Search Algorithm used to synthesis a planar array antenna for nulling control and side lobe level reduction. , 2016, , .		3

#	ARTICLE	IF	CITATIONS
781	Optimization of benchmark functions and practical problems using Crow Search Algorithm. , 2016, , .		17
782	Comparative analysis of different Controllers on two area interconnected power system model using Gravitational Search Algorithm. , 2016, , .		3
783	Adaptive step-size based Spider Monkey Optimization. , 2016, , .		4
784	Deterministic maximum likelihood direction of arrival estimation using GSA. , 2016, , .		7
785	Neural Network Classification for Iris Recognition Using Both Particle Swarm Optimization and Gravitational Search Algorithm. , 2016, , .		5
786	Some Other Metaheuristics. , 2016, , 229-262.		0
787	Estimation of Curie temperature of manganite-based materials for magnetic refrigeration application using hybrid gravitational based support vector regression. AIP Advances, 2016, 6, .	0.6	16
788	Feature weighting for cancer tumor detection in mammography images using gravitational search algorithm. , 2016, , .		4
789	Pairwise sequence alignment of biological database using soft computing approach. , 2016, , .		1
790	Radar Cross Section reduction based on Gravitational Search Algorithm optimized metasurface. , 2016, , .		0
791	Seismic Processing: Noise Attenuation Complete Session. , 2016, , .		0
792	Video frame segmentation by using newton's law of gravity. , 2016, , .		2
793	A nonlinear estimation and control algorithm based on ant colony optimization. , 2016, , .		5
794	Metaheuristic Techniques. , 2016, , 693-750.		25
795	A memetic gravitation search algorithm for solving DNA fragment assembly problems. Journal of Intelligent and Fuzzy Systems, 2016, 30, 2245-2255.	0.8	10
796	Design of higher order FIR low pass filter using Cuckoo search algorithm. , 2016, , .		5
797	Gbest inspired Biogeography Based Optimization algorithm. , 2016, , .		3
798	Optimal tuning of a PD control by bat algorithm to stabilize a quadrotor. , 2016, , .		6

#	ARTICLE	IF	CITATIONS
799	Multi-objective fitness-proportional attraction approach with weights. , 2016, , .		0
800	The pair-wise LSB matching steganography with a discrete quantum behaved Gravitational Search Algorithm. Journal of Intelligent and Fuzzy Systems, 2016, 30, 1547-1556.	0.8	3
801	Self-standing up of humanoid robot using a new intelligent algorithm. , 2016, , .		4
802	Null steering Optimization based MVDR beamformer using hybrid PSOCSA approach for antenna array system. , 2016, , .		2
803	Comparison of hybrid HOD-GSA, HOD and PSO for the tuning of extended Kalman filter. , 2016, , .		2
804	Extending the Nelder-Mead algorithm for feature selection from brain networks. , 2016, , .		3
805	Fuzzy Krill Herd (FKH): An improved optimization algorithm. Intelligent Data Analysis, 2016, 20, 153-165.	0.4	7
806	A Multi-Subgroup Hierarchical Hybrid of Central Force Optimization and Gravity Search Algorithm. , 2016, , .		1
807	Forecasting energy consumption using particle swarm optimization and gravitational search algorithm. , 2016, , .		1
808	Comparisons of Central Force Optimization and Gravitational Search Algorithm. , 2016, , .		0
809	A New Improved Gravitational Search Algorithm Based on Chaos. , 2016, , .		0
810	Fitness based gravitational search algorithm. , 2016, , .		5
811	A multi-object black hole gravitational search algorithm for day-ahead reactive optimization in distribution network. , 2016, , .		0
812	Microgrid sizing via profit maximization: A population based optimization approach. , 2016, , .		7
813	The Application of Artificial Bee Colony and Gravitational Search Algorithm in Reservoir Optimization. Water Resources Management, 2016, 30, 2497-2516.	1.9	37
814	A Feature Selection Method Based on Multi-objective Optimisation with Gravitational Search Algorithm. Communications in Computer and Information Science, 2016, , 549-558.	0.4	0
815	Smart Robot Control via Novel Computational Intelligence Methods for Ambient Assisted Living. Studies in Computational Intelligence, 2016, , 29-55.	0.7	2
816	Yin-Yang-pair Optimization: A novel lightweight optimization algorithm. Engineering Applications of Artificial Intelligence, 2016, 54, 62-79.	4.3	95

#	ARTICLE	IF	CITATIONS
817	DMMOGSA: Diversity-enhanced and memory-based multi-objective gravitational search algorithm. Information Sciences, 2016, 363, 52-71.	4.0	21
818	Using autonomous search for solving constraint satisfaction problems via new modern approaches. Swarm and Evolutionary Computation, 2016, 30, 64-77.	4.5	16
819	Optimal Design of 2D FIR Filters with Quadrantally Symmetric Properties Using Fractional Derivative Constraints. Circuits, Systems, and Signal Processing, 2016, 35, 2213-2257.	1.2	47
820	Realization of a quantum gate using gravitational search algorithm by perturbing three-dimensional harmonic oscillator with an electromagnetic field. Quantum Information Processing, 2016, 15, 2275-2302.	1.0	3
821	Solution of optimal reactive power dispatch of power systems using hybrid particle swarm optimization and imperialist competitive algorithms. International Journal of Electrical Power and Energy Systems, 2016, 83, 104-116.	3.3	123
822	An autonomous teaching-learning based optimization algorithm for single objective global optimization. International Journal of Computational Intelligence Systems, 2016, 9, 506.	1.6	10
824	Speech Enhancement Based on Bat Algorithm (BA). Springer Briefs in Electrical and Computer Engineering, 2016, , 91-110.	0.3	1
825	Hybrid GSA&SQP algorithm for optimal coordination of directional overcurrent relays. IET Generation, Transmission and Distribution, 2016, 10, 1928-1937.	1.4	87
826	Curve Fitting Using Gravitational Search Algorithm and Its Hybridized Variants. Advances in Intelligent Systems and Computing, 2016, , 823-837.	0.5	1
827	Hybrid technique for optimal location and cost sizing of thyristor controlled series compensator to upgrade voltage stability. IET Generation, Transmission and Distribution, 2016, 10, 1921-1927.	1.4	19
828	Transient stability constrained optimal power flow using oppositional krill herd algorithm. International Journal of Electrical Power and Energy Systems, 2016, 83, 283-297.	3.3	24
829	Design and implementation of type&I and type&II controller for DC&DC switched&mode boost converter by using K-factor approach and optimisation techniques. IET Power Electronics, 2016, 9, 938-950.	1.5	86
830	Grey wolf optimization applied to economic load dispatch problems. International Journal of Electrical Power and Energy Systems, 2016, 83, 325-334.	3.3	206
831	A novel optimization method, Gravitational Search Algorithm (GSA), for PWR core optimization. Annals of Nuclear Energy, 2016, 95, 23-34.	0.9	30
832	Optimal Location of Unified Power Quality Conditioner in Distribution System for Power Quality Improvement. International Journal of Electrical Power and Energy Systems, 2016, 83, 309-324.	3.3	35
833	An elitist non-dominated sorting bat algorithm NSBAT-II for multi-objective optimization of phthalic anhydride reactor. International Journal of Systems Assurance Engineering and Management, 2016, 7, 299-315.	1.5	17
834	A fly flight-based shuffled frog-leaping algorithm and its applications for continuous optimization problems. Applied Soft Computing Journal, 2016, 49, 641-662.	4.1	42
835	Parameter tuning with Chess Rating System (CRS-Tuning) for meta-heuristic algorithms. Information Sciences, 2016, 372, 446-469.	4.0	70

#	ARTICLE	IF	CITATIONS
836	Performance enhancement of power systems with wave energy using gravitational search algorithm based TCSC devices. Engineering Science and Technology, an International Journal, 2016, 19, 1661-1667.	2.0	10
837	OPF governed determination of location and size of distribution generators using gravitational search algorithm. , 2016, , .		0
838	Joint location and power optimisation of femto base stations to improve indoor coverage: a geometric approach. Transactions on Emerging Telecommunications Technologies, 2016, 27, 1496-1512.	2.6	3
839	An improved particle swarm optimization for multi-robot path planning. , 2016, , .		11
840	Hybrid Gravitational Search Algorithm with Swarm Intelligence for Object Tracking. Lecture Notes in Computer Science, 2016, , 213-221.	1.0	2
841	An adaptive disruption based gravitational search algorithm with time-varying velocity limitation. , 2016, , .		2
842	Mobile object tracking using the modified cuckoo search. , 2016, , 105-130.		0
843	Parameter estimation of permanent magnet synchronous machine using Gravitational search algorithm. , 2016, , .		3
844	Comparison of optimal DG placement using CSA, GSA, PSO and GA for minimum real power loss in radial distribution system. , 2016, , .		18
845	A hybrid rice optimization algorithm. , 2016, , .		15
846	Linear Dipole Antenna Array design and optimization using Gravitational Search Algorithm. , 2016, , .		11
847	A Kalman filtering induced heuristic optimization based partitional data clustering. Information Sciences, 2016, 369, 704-717.	4.0	21
848	Gravitational swarm optimizer for global optimization. Swarm and Evolutionary Computation, 2016, 31, 64-89.	4.5	31
849	Optimal operation of multicarrier energy systems using Time Varying Acceleration Coefficient Gravitational Search Algorithm. Energy, 2016, 114, 253-265.	4.5	50
850	Modern meta-heuristics based on nonlinear physics processes: A review of models and design procedures. Physics Reports, 2016, 655, 1-70.	10.3	124
851	Multi-robot path planning in a dynamic environment using improved gravitational search algorithm. Journal of Electrical Systems and Information Technology, 2016, 3, 295-313.	1.2	47
852	A novel multi objective Loading Pattern Optimization by Gravitational Search Algorithm (GSA) for WWER1000 core. Progress in Nuclear Energy, 2016, 93, 1-11.	1.3	19
853	A mixed-strategy based gravitational search algorithm for parameter identification of hydraulic turbine governing system. Knowledge-Based Systems, 2016, 109, 218-237.	4.0	42

#	ARTICLE	IF	CITATIONS
854	Blending Artificial Intelligence into PID Controller Design: A Biomedical Engineering Experiment. IFAC-PapersOnLine, 2016, 49, 366-371.	0.5	7
855	Direct Gravitational Search Algorithm for Global Optimisation Problems. East Asian Journal on Applied Mathematics, 2016, 6, 290-313.	0.4	2
856	Fuzzy entropy based multilevel image thresholding using modified gravitational search algorithm. , 2016, , .		14
857	Automatic generation control using disrupted oppositional based gravitational search algorithm optimised sliding mode controller under deregulated environment. IET Generation, Transmission and Distribution, 2016, 10, 3995-4005.	1.4	33
858	Online human action recognition based on improved dynamic time warping. , 2016, , .		4
859	Social group optimization (SGO): a new population evolutionary optimization technique. Complex & Intelligent Systems, 2016, 2, 173-203.	4.0	183
860	Hybrid PSO-ACO technique to solve multi-constraint economic load dispatch problems for 6-generator system. International Journal of Computers and Applications, 2016, 38, 96-115.	0.8	4
861	Optimisationâ€based improved switching technique for static VAr compensator considering minimum source harmonic injection. IET Power Electronics, 2016, 9, 1362-1373.	1.5	4
862	Comparison of physics-based optimization algorithms by using benchmark functions. , 2016, , .		0
863	Gravitational search algorithm (GSA) optimized fuzzy-PID controller design for load frequency control of an interconnected multi-area power system. , 2016, , .		5
864	A hybrid PSO-GSA-based inversion of noise corrupted seismic data using singular spectrum-based time slice denoising. , 2016, , .		0
865	Compound feature selection and parameter optimization of ELM for fault diagnosis of rolling element bearings. ISA Transactions, 2016, 65, 556-566.	3.1	97
866	Experimental investigation on the synthesis of scanning beam pattern with antenna selection for conformal array. IET Microwaves, Antennas and Propagation, 2016, 10, 969-975.	0.7	9
867	DOA estimation based on an improved hybrid PSO-GSA approach for CDMA system. , 2016, , .		0
868	DG placement in radial distribution network by symbiotic organisms search algorithm for real power loss minimization. Applied Soft Computing Journal, 2016, 49, 920-936.	4.1	77
869	Design and implementation of fractional order integrator with reduced hardware. , 2016, , .		4
870	Improved Krill Herd Algorithm with neighborhood distance concept for numerical optimization. , 2016, , .		3
871	Identification of LPV model for superheated steam temperature system using A-QPSO. Simulation Modelling Practice and Theory, 2016, 69, 1-13.	2.2	7

#	ARTICLE	IF	CITATIONS
872	Transfer of Classical Tools to the LIP Context. <i>Advances in Imaging and Electron Physics</i> , 2016, 195, 185-244.	0.1	0
873	Stability enhancement with SSSC-based controller design in presence of non-linear voltage-dependent load. <i>International Journal of Intelligent Systems Technologies and Applications</i> , 2016, 15, 163.	0.2	4
874	Assessment of basic clustering techniques using teaching-learning-based optimisation. <i>International Journal of Knowledge Engineering and Soft Data Paradigms</i> , 2016, 5, 106.	0.0	2
875	Metaheuristics Based on Sciences. , 2016, , 295-314.		1
876	Optimal allocation of FACTS devices for static security enhancement in power systems via imperialistic competitive algorithm (ICA). <i>Applied Soft Computing Journal</i> , 2016, 48, 317-328.	4.1	57
878	Multi-Objective Unit Commitment With Renewable Energy Using GSA Algorithm. <i>INAE Letters</i> , 2016, 1, 21-27.	1.0	9
879	Grayscale Image Segmentation Using Multilevel Thresholding and Nature-Inspired Algorithms. , 2016, , 23-52.		6
880	A comparison of heuristic optimization techniques for optimal placement and sizing of photovoltaic based distributed generation in a distribution system. <i>Solar Energy</i> , 2016, 140, 219-226.	2.9	30
881	Gravitational search algorithm based tuning of a PI speed controller for an induction motor drive. <i>IOP Conference Series: Earth and Environmental Science</i> , 2016, 32, 012001.	0.2	1
882	A fuzzy system for dynamic parameter adaptation in gravitational search algorithm. , 2016, , .		5
883	Application of the gravity search algorithm to multi-reservoir operation optimization. <i>Advances in Water Resources</i> , 2016, 98, 173-185.	1.7	59
884	Elitism based Shuffled Frog Leaping algorithm. , 2016, , .		1
885	Accelerative gravitational search algorithm. , 2016, , .		3
886	Feature selection using angle modulated simulated Kalman filter for peak classification of EEG signals. <i>SpringerPlus</i> , 2016, 5, 1580.	1.2	24
887	AFOA: An Adaptive Fruit Fly Optimization Algorithm with Global Optimizing Ability. <i>International Journal on Artificial Intelligence Tools</i> , 2016, 25, 1650032.	0.7	8
888	A novel multi-scale cooperative mutation Fruit Fly Optimization Algorithm. <i>Knowledge-Based Systems</i> , 2016, 114, 24-35.	4.0	58
889	A PSO FPGA based architecture to optimize constrained functions. , 2016, , .		3
890	Firing angle optimization of seven-level cascaded H-bridge multilevel inverter with un-equal DC sources using GSA approach. , 2016, , .		3

#	ARTICLE	IF	CITATIONS
891	An un-supervised image segmentation technique based on multi-objective Gravitational search algorithm (MOGSA). , 2016, , .		3
892	Design of IIR filter using Gbest guided cuckoo search algorithm. , 2016, , .		1
893	Integrated particle swarm optimization variants for economic load dispatch problem. , 2016, , .		1
894	Comparative study of meta-heuristics based approaches for maximum power point tracking for PV systems. , 2016, , .		0
895	Chaotic grey wolf optimization. , 2016, , .		14
896	Application of GSA optimized PI controller parameters in automatic generation control for interconnected power system. , 2016, , .		2
897	A GSA-based method in human identification using finger vein patterns. , 2016, , .		8
898	Analysis of swarm intelligence and evolutionary computation techniques in IIR digital filters design. , 2016, , .		6
899	A new version of Gravitational Search Algorithm with negative mass. , 2016, , .		9
900	Bat Algorithm: Application to Adaptive Infinite Impulse Response System Identification. Arabian Journal for Science and Engineering, 2016, 41, 3587-3604.	1.1	43
901	A New Stochastic Optimization Approach " Dolphin Swarm Optimization Algorithm. International Journal of Computational Intelligence and Applications, 2016, 15, 1650011.	0.6	39
902	Detection of cancer tumors in mammography images using support vector machine and mixed gravitational search algorithm. , 2016, , .		14
903	Multi-UAVs tracking target in urban environment by model predictive control and Improved Grey Wolf Optimizer. Aerospace Science and Technology, 2016, 55, 131-143.	2.5	89
904	Firefly Algorithm Hybridized with Flower Pollination Algorithm for Multimodal Functions. Advances in Intelligent Systems and Computing, 2016, , 207-219.	0.5	13
905	Flocking control with single-COM for tracking a moving target in mobile sensor network using gravitational search algorithm. , 2016, , .		2
906	A GSA-based adaptive fuzzy PID-controller for an active suspension system. Engineering Computations, 2016, 33, 1659-1667.	0.7	7
907	A Solution to the Combined Economic and Emission Dispatch Using Hybrid PSO-GSA Algorithm. Applied Artificial Intelligence, 2016, 30, 445-474.	2.0	44
908	Gravitational Search Algorithm and Its Variants. International Journal of Pattern Recognition and Artificial Intelligence, 2016, 30, 1639001.	0.7	51

#	ARTICLE	IF	CITATIONS
909	A self-adaptive binary differential evolution algorithm for large scale binary optimization problems. Information Sciences, 2016, 367-368, 487-511.	4.0	51
910	Performance of swarm based optimization techniques for designing digital FIR filter: A comparative study. Engineering Science and Technology, an International Journal, 2016, 19, 1564-1572.	2.0	24
911	Non-dominated Sorting Disruption-based Gravitational Search Algorithm with Mutation Scheme for Multi-objective Short-Term Hydrothermal Scheduling. Electric Power Components and Systems, 2016, 44, 990-1004.	1.0	6
912	Gravitational search algorithm for economic optimization design of a shell and tube heat exchanger. Applied Thermal Engineering, 2016, 107, 184-193.	3.0	47
913	Optimal L1 control for linear time-delayed systems using GSA algorithm. , 2016, , .		8
914	Topology optimization of double and triple layer grid structures using a modified gravitational harmony search algorithm with efficient member grouping strategy. Computers and Structures, 2016, 172, 40-58.	2.4	24
915	Machinability study of Carbon Fiber Reinforced Polymer in the longitudinal and transverse direction and optimization of process parameters using PSO&GSA. Engineering Science and Technology, an International Journal, 2016, 19, 1552-1563.	2.0	24
916	A novel gravitational search algorithm for multilevel image segmentation and its application on semiconductor packages vision inspection. Optik, 2016, 127, 5770-5782.	1.4	17
917	Locally informed gravitational search algorithm. Knowledge-Based Systems, 2016, 104, 134-144.	4.0	23
918	An Improved Control Scheme for On-load Tap Changers with Reduced Harmonics Injection. Electric Power Components and Systems, 2016, 44, 794-805.	1.0	0
919	An improved gravitational search algorithm for green partner selection in virtual enterprises. Neurocomputing, 2016, 217, 103-109.	3.5	23
920	A hybrid method for dimensionality reduction in microarray data based on advanced binary ant colony algorithm. , 2016, , .		6
921	Fault detection and optimal coordination of overcurrent relay in offshore wind farm connected to onshore grid with VSC-HVDC. International Transactions on Electrical Energy Systems, 2016, 26, 841-863.	1.2	6
922	Optimization of multilayer electromagnetic shields: A genetic algorithm approach. Materialwissenschaft Und Werkstofftechnik, 2016, 47, 263-271.	0.5	12
923	A memory-based gravitational search algorithm for enhancing minimum variance distortionless response beamforming. Applied Soft Computing Journal, 2016, 47, 103-118.	4.1	21
924	Optimal power allocation scheme for plug-in hybrid electric vehicles using swarm intelligence techniques. Cogent Engineering, 2016, 3, 1203083.	1.1	13
925	Comparative Study of Different Metaheuristics for the Trajectory Planning of a Robotic Arm. IEEE Systems Journal, 2016, 10, 697-708.	2.9	34
926	ODMA: a novel swarm-evolutionary metaheuristic optimizer inspired by open source development model and communities. Soft Computing, 2016, 20, 727-747.	2.1	16

#	ARTICLE	IF	CITATIONS
927	Hybrid real-code ant colony optimisation for constrained mechanical design. International Journal of Systems Science, 2016, 47, 474-491.	3.7	12
928	A hybrid approach to artificial bee colony algorithm. Neural Computing and Applications, 2016, 27, 387-409.	3.2	27
929	Convergence of knowledge, nature and computations: a review. Soft Computing, 2016, 20, 319-342.	2.1	8
930	A fuzzy-based non-dominated sorting genetic algorithm-II for joint energy and reserves market clearing. Soft Computing, 2016, 20, 1161-1177.	2.1	9
931	A hybrid method based on krill herd and quantum-behaved particle swarm optimization. Neural Computing and Applications, 2016, 27, 989-1006.	3.2	123
932	The Collective Animal Behavior method. Studies in Computational Intelligence, 2016, , 55-81.	0.7	0
933	Collective Animal Behavior Algorithm for Multimodal Optimization Functions. Studies in Computational Intelligence, 2016, , 153-174.	0.7	0
934	Optimization of Vane-Type Vortex Generators for Tiltrotor Wings using Computational Fluid Dynamics. , 2016, , .		3
935	Meta-heuristic evolutionary algorithms for the design of optimal multiplier-less recombination filter banks. Information Sciences, 2016, 339, 31-52.	4.0	6
936	Topology optimization of double- and triple-layer grids using a hybrid methodology. Engineering Optimization, 2016, 48, 1333-1349.	1.5	9
937	Transient simulation of gas pipeline networks using intelligent methods. Journal of Natural Gas Science and Engineering, 2016, 29, 517-529.	2.1	21
938	A cooperative particle swarm optimizer with stochastic movements for computationally expensive numerical optimization problems. Journal of Computational Science, 2016, 13, 68-82.	1.5	76
939	Human action recognition using genetic algorithms and convolutional neural networks. Pattern Recognition, 2016, 59, 199-212.	5.1	138
940	A hybridization of an improved particle swarm optimization and gravitational search algorithm for multi-robot path planning. Swarm and Evolutionary Computation, 2016, 28, 14-28.	4.5	210
941	A novel nature-inspired algorithm for optimization: Virus colony search. Advances in Engineering Software, 2016, 92, 65-88.	1.8	228
942	An innovative integrated model using the singular spectrum analysis and nonlinear multi-layer perceptron network optimized by hybrid intelligent algorithm for short-term load forecasting. Applied Mathematical Modelling, 2016, 40, 4079-4093.	2.2	45
943	Optimal energy use of the collector tube in solar power tower plant. Renewable Energy, 2016, 93, 525-535.	4.3	2
944	Gravitational Search Algorithm Applied to the Cell Formation Problem. Studies in Computational Intelligence, 2016, , 251-266.	0.7	1

#	ARTICLE	IF	CITATIONS
945	Multiple learning particle swarm optimization with space transformation perturbation and its application in ethylene cracking furnace optimization. Knowledge-Based Systems, 2016, 96, 156-170.	4.0	38
946	Optimal SSSC design for damping power systems oscillations via Gravitational Search Algorithm. International Journal of Electrical Power and Energy Systems, 2016, 82, 161-168.	3.3	50
947	A new optimization algorithm based on chaotic maps and golden section search method. Engineering Applications of Artificial Intelligence, 2016, 50, 201-214.	4.3	81
948	A Nonhomogeneous Cuckoo Search Algorithm Based on Quantum Mechanism for Real Parameter Optimization. IEEE Transactions on Cybernetics, 2016, 47, 1-12.	6.2	51
949	Local-Gravity-Face (LG-face) for Illumination-Invariant and Heterogeneous Face Recognition. IEEE Transactions on Information Forensics and Security, 2016, 11, 1412-1424.	4.5	63
950	Parameter identification of a nonlinear model of hydraulic turbine governing system with an elastic water hammer based on a modified gravitational search algorithm. Engineering Applications of Artificial Intelligence, 2016, 50, 177-191.	4.3	41
951	Optimal Over-current Relay Coordination with Distributed Generation Using Hybrid Particle Swarm Optimization and Gravitational Search Algorithm. Electric Power Components and Systems, 2016, 44, 506-517.	1.0	60
952	Application of non-dominated sorting gravitational search algorithm with disruption operator for stochastic multiobjective short term hydrothermal scheduling. IET Generation, Transmission and Distribution, 2016, 10, 862-872.	1.4	25
953	Special protection scheme against voltage collapse. IET Generation, Transmission and Distribution, 2016, 10, 341-351.	1.4	22
954	Linkage based deferred acceptance optimization. Information Sciences, 2016, 349-350, 65-76.	4.0	0
955	A novel hybrid algorithm of gravitational search algorithm with genetic algorithm for multi-level thresholding. Applied Soft Computing Journal, 2016, 46, 703-730.	4.1	81
956	Hybridized Gravitational Search Algorithm for Short-Term Hydrothermal Scheduling. IETE Journal of Research, 2016, 62, 468-478.	1.8	8
957	Nonlinear predictive control of a mobile robot: a solution using metaheuristics. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers, Series A/Chung-kuo Kung Ch'eng Hsueh K'an, 2016, 39, 282-290.	0.6	18
958	A collaborative filtering similarity measure based on potential field. Kybernetes, 2016, 45, 434-445.	1.2	14
959	Renewable energy management in a remote area using Modified Gravitational Search Algorithm. Energy, 2016, 97, 391-399.	4.5	25
960	A new rooted tree optimization algorithm for economic dispatch with valve-point effect. International Journal of Electrical Power and Energy Systems, 2016, 79, 298-311.	3.3	112
961	Self-controlled bio-inspired extreme learning machines for scalable regression and classification: a comprehensive analysis with some recommendations. Artificial Intelligence Review, 2016, 46, 167-223.	9.7	3
962	The Whale Optimization Algorithm. Advances in Engineering Software, 2016, 95, 51-67.	1.8	8,099

#	ARTICLE	IF	CITATIONS
963	Adaptive modulation recognition based on the evolutionary algorithms. Applied Soft Computing Journal, 2016, 43, 312-319.	4.1	19
964	Water Evaporation Optimization: A novel physically inspired optimization algorithm. Computers and Structures, 2016, 167, 69-85.	2.4	263
965	A new intelligent approach for air traffic control using gravitational search algorithm. Sadhana - Academy Proceedings in Engineering Sciences, 2016, 41, 183-191.	0.8	4
966	An effective WSN deployment algorithm via search economics. Computer Networks, 2016, 101, 178-191.	3.2	32
967	Security Constrained Unit Commitment Problem Employing Artificial Computational Intelligence for Wind-Thermal Power System. Advances in Intelligent Systems and Computing, 2016, , 261-275.	0.5	2
968	Efficient protocol for data clustering by fuzzy Cuckoo Optimization Algorithm. Applied Soft Computing Journal, 2016, 41, 15-21.	4.1	43
969	Stability analysis of particle dynamics in gravitational search optimization algorithm. Information Sciences, 2016, 337-338, 25-43.	4.0	35
970	Automatic clustering using nature-inspired metaheuristics: A survey. Applied Soft Computing Journal, 2016, 41, 192-213.	4.1	174
971	Gray Wolf Optimizer for hyperspectral band selection. Applied Soft Computing Journal, 2016, 40, 178-186.	4.1	158
972	The Spread of Innovatory Nature Originated Metaheuristics in Robot Swarm Control for Smart Living Environments. Studies in Systems, Decision and Control, 2016, , 39-70.	0.8	5
973	An adaptively fast fuzzy fractional order PID control for pumped storage hydro unit using improved gravitational search algorithm. Energy Conversion and Management, 2016, 111, 67-78.	4.4	117
974	Combined heat and power economic dispatch problem using gravitational search algorithm. Electric Power Systems Research, 2016, 133, 160-172.	2.1	154
975	A hybrid backtracking search optimization algorithm for nonlinear optimal control problems with complex dynamic constraints. Neurocomputing, 2016, 186, 182-194.	3.5	31
976	Authentication based on keystroke dynamics using stochastic diffusion algorithm. Stochastic Analysis and Applications, 2016, 34, 155-164.	0.9	4
977	Multi-objective Allocation of Multi-type Distributed Generators along Distribution Networks Using Backtracking Search Algorithm and Fuzzy Expert Rules. Electric Power Components and Systems, 2016, 44, 252-267.	1.0	49
978	SCA: A Sine Cosine Algorithm for solving optimization problems. Knowledge-Based Systems, 2016, 96, 120-133.	4.0	3,492
979	Cognitive behavior optimization algorithm for solving optimization problems. Applied Soft Computing Journal, 2016, 39, 199-222.	4.1	47
980	Fuzzy performance evaluation of Evolutionary Algorithms based on extreme learning classifier. Neurocomputing, 2016, 175, 371-382.	3.5	2

#	ARTICLE	IF	CITATIONS
981	A GSA-Based Modified SVC Switching Scheme for Load Balancing and Source Power Factor Improvement. IEEE Transactions on Power Delivery, 2016, 31, 2072-2082.	2.9	25
982	An Implementation of Tree-Seed Algorithm (TSA) for Constrained Optimization. Proceedings in Adaptation, Learning and Optimization, 2016, , 189-197.	1.5	13
983	Utilization of Bat Algorithm for Solving Uncapacitated Facility Location Problem. Proceedings in Adaptation, Learning and Optimization, 2016, , 199-208.	1.5	4
984	Passing vehicle search (PVS): A novel metaheuristic algorithm. Applied Mathematical Modelling, 2016, 40, 3951-3978.	2.2	191
985	A Discrete Krill Herd Method with Multilayer Coding Strategy for Flexible Job-Shop Scheduling Problem. Advances in Intelligent Systems and Computing, 2016, , 201-215.	0.5	7
986	The performance comparison of a new version of artificial raindrop algorithm on global numerical optimization. Neurocomputing, 2016, 179, 1-25.	3.5	18
987	A Modified Cuckoo Search Algorithm for Improving Voltage Profile and to Diminish Power Losses by Locating Multi-type FACTS Devices. Journal of Control, Automation and Electrical Systems, 2016, 27, 93-104.	1.2	15
988	Multi-Objective Distribution feeder reconfiguration to improve transient stability, and minimize power loss and operation cost using an enhanced evolutionary algorithm at the presence of distributed generations. International Journal of Electrical Power and Energy Systems, 2016, 76, 35-43.	3.3	72
989	Mine Blast Harmony Search and Its Applications. Advances in Intelligent Systems and Computing, 2016, , 155-168.	0.5	2
990	Study of Economic Load Dispatch by Various Hybrid Optimization Techniques. Studies in Computational Intelligence, 2016, , 37-74.	0.7	5
991	Modeling and managing of micro grid connected system using Improved Artificial Bee Colony algorithm. International Journal of Electrical Power and Energy Systems, 2016, 75, 50-58.	3.3	71
992	A new rainfall forecasting model using the CAPSO algorithm and an artificial neural network. Neural Computing and Applications, 2016, 27, 2551-2565.	3.2	25
993	Comparative optimizer rank and score: A modern approach for performance analysis of optimization techniques. Expert Systems With Applications, 2016, 45, 118-130.	4.4	0
994	The new method of flatness pattern recognition based on GAâ€“RBFâ€“ARX and comparative research. Nonlinear Dynamics, 2016, 83, 1535-1548.	2.7	15
995	An effective bacterial foraging optimizer for global optimization. Information Sciences, 2016, 329, 719-735.	4.0	72
996	Electromagnetic field optimization: A physics-inspired metaheuristic optimization algorithm. Swarm and Evolutionary Computation, 2016, 26, 8-22.	4.5	253
998	Design of multiplier-less sharp non-uniform cosine modulated filter banks for efficient channelizers in software defined radio. Engineering Science and Technology, an International Journal, 2016, 19, 147-160.	2.0	18
999	Modified central force optimization (MCFO) algorithm for 3D UAV path planning. Neurocomputing, 2016, 171, 878-888.	3.5	90

#	ARTICLE	IF	CITATIONS
1000	Gravitational Search, Monkey, and Krill Herd Swarm Algorithms for Phase Stability, Phase Equilibrium, and Chemical Equilibrium Problems. <i>Chemical Engineering Communications</i> , 2016, 203, 389-406.	1.5	6
1001	Effective multi-objective optimization with the coral reefs optimization algorithm. <i>Engineering Optimization</i> , 2016, 48, 966-984.	1.5	9
1002	Energy and Reserve Market Clearing With Microgrid Aggregators. <i>IEEE Transactions on Smart Grid</i> , 2016, 7, 2703-2712.	6.2	32
1003	Lion Optimization Algorithm (LOA): A nature-inspired metaheuristic algorithm. <i>Journal of Computational Design and Engineering</i> , 2016, 3, 24-36.	1.5	413
1004	Supplementary damping controller design for SSSC to mitigate sub-synchronous resonance. <i>Mechanical Systems and Signal Processing</i> , 2016, 68-69, 523-535.	4.4	13
1005	Intelligent control of photovoltaic system using BPSO-GSA-optimized neural network and fuzzy-based PID for maximum power point tracking. <i>Applied Intelligence</i> , 2016, 44, 88-110.	3.3	33
1006	Solution of non-convex economic load dispatch problem using Grey Wolf Optimizer. <i>Neural Computing and Applications</i> , 2016, 27, 1301-1316.	3.2	150
1007	Comparison of four different heuristic optimization algorithms for the inverse kinematics solution of a real 4-DOF serial robot manipulator. <i>Neural Computing and Applications</i> , 2016, 27, 825-836.	3.2	86
1008	Hybridizing electromagnetism-like mechanism algorithm with migration strategy for layout and size optimization of truss structures with frequency constraints. <i>Neural Computing and Applications</i> , 2016, 27, 953-971.	3.2	28
1009	Intrusive tumor growth inspired optimization algorithm for data clustering. <i>Neural Computing and Applications</i> , 2016, 27, 349-374.	3.2	11
1010	Multi-Verse Optimizer: a nature-inspired algorithm for global optimization. <i>Neural Computing and Applications</i> , 2016, 27, 495-513.	3.2	1,910
1011	Minimization of losses and FACTS installation cost using proposed differential gravitational search algorithm optimization technique. <i>JVC/Journal of Vibration and Control</i> , 2017, 23, 235-251.	1.5	0
1012	Medical image registration based on watershed transform from greyscale marker and multi-scale parameter search. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , 2017, 5, 138-156.	1.3	8
1013	Optimal sizing of CMOS analog circuits using gravitational search algorithm with particle swarm optimization. <i>International Journal of Machine Learning and Cybernetics</i> , 2017, 8, 309-331.	2.3	41
1014	Conceptual and numerical comparisons of swarm intelligence optimization algorithms. <i>Soft Computing</i> , 2017, 21, 3081-3100.	2.1	31
1015	DGSA: discrete gravitational search algorithm for solving knapsack problem. <i>Operational Research</i> , 2017, 17, 563-591.	1.3	8
1016	A study on intrusion detection using neural networks trained with evolutionary algorithms. <i>Soft Computing</i> , 2017, 21, 2687-2700.	2.1	74
1017	Hybrid of binary gravitational search algorithm and mutual information for feature selection in intrusion detection systems. <i>Soft Computing</i> , 2017, 21, 2307-2324.	2.1	77

#	ARTICLE	IF	CITATIONS
1018	Optimization of 5.5-GHz CMOS LNA parameters using firefly algorithm. <i>Neural Computing and Applications</i> , 2017, 28, 3765-3779.	3.2	36
1019	Solution of non-convex economic load dispatch problem for small-scale power systems using ant lion optimizer. <i>Neural Computing and Applications</i> , 2017, 28, 2181-2192.	3.2	112
1020	Network traffic prediction based on RBF neural network optimized by improved gravitation search algorithm. <i>Neural Computing and Applications</i> , 2017, 28, 2303-2312.	3.2	30
1021	A two-stage framework for bat algorithm. <i>Neural Computing and Applications</i> , 2017, 28, 2605-2619.	3.2	10
1022	Computational Intelligence Based QoS-Aware Web Service Composition: A Systematic Literature Review. <i>IEEE Transactions on Services Computing</i> , 2017, 10, 475-492.	3.2	138
1023	Weighted Superposition Attraction (WSA): A swarm intelligence algorithm for optimization problems – Part 1: Unconstrained optimization. <i>Applied Soft Computing Journal</i> , 2017, 56, 520-540.	4.1	70
1024	Swarm and evolutionary computing algorithms for system identification and filter design: A comprehensive review. <i>Swarm and Evolutionary Computation</i> , 2017, 32, 68-84.	4.5	66
1025	Kidney-inspired algorithm for optimization problems. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2017, 42, 358-369.	1.7	76
1026	Continuous Dynamic Constrained Optimization With Ensemble of Locating and Tracking Feasible Regions Strategies. <i>IEEE Transactions on Evolutionary Computation</i> , 2017, 21, 14-33.	7.5	58
1027	A Hybrid Heat Rate Forecasting Model Using Optimized LSSVM Based on Improved GSA. <i>Neural Processing Letters</i> , 2017, 45, 299-318.	2.0	20
1028	Engineering optimization based on ideal gas molecular movement algorithm. <i>Engineering With Computers</i> , 2017, 33, 71-93.	3.5	52
1029	Plant intelligence based metaheuristic optimization algorithms. <i>Artificial Intelligence Review</i> , 2017, 47, 417-462.	9.7	168
1030	Design and development of a unified framework towards swarm intelligence. <i>Artificial Intelligence Review</i> , 2017, 47, 253-277.	9.7	8
1031	Probabilistic Performance-Based Optimum Seismic Design of RC Structures Considering Soil-Structure Interaction Effects. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering</i> , 2017, 3, .	1.1	23
1032	A new Cumulative Gravitational Search algorithm for optimal placement of FACT device to minimize system loss in the deregulated electrical power environment. <i>International Journal of Electrical Power and Energy Systems</i> , 2017, 84, 34-46.	3.3	45
1033	A new intelligent algorithm for damage detection in frames via modal properties. <i>Intelligent Buildings International</i> , 2017, 9, 222-236.	1.3	1
1034	Potential position node placement approach via oppositional gravitational search for fulfill coverage and connectivity in target based wireless sensor networks. <i>Wireless Networks</i> , 2017, 23, 1875-1888.	2.0	12
1035	A binary variant of lightning search algorithm: BLSA. <i>Soft Computing</i> , 2017, 21, 2971-2990.	2.1	17

#	ARTICLE	IF	CITATIONS
1036	Optimal feature selection using distance-based discrete firefly algorithm with mutual information criterion. <i>Neural Computing and Applications</i> , 2017, 28, 2795-2808.	3.2	47
1037	A gravitational search algorithm for solving the relay node placement problem in wireless sensor networks. <i>International Journal of Communication Systems</i> , 2017, 30, e2957.	1.6	4
1038	Comparison of Genetic Algorithm, Particle Swarm Optimization and Biogeography-based Optimization for Feature Selection to Classify Clusters of Microcalcifications. <i>Journal of the Institution of Engineers (India): Series B</i> , 2017, 98, 189-202.	1.3	16
1039	Satin bowerbird optimizer: A new optimization algorithm to optimize ANFIS for software development effort estimation. <i>Engineering Applications of Artificial Intelligence</i> , 2017, 60, 1-15.	4.3	202
1041	Performance of Grey Wolf Optimizer on large scale problems. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	2
1042	An enhanced optimization kernel for analog IC design automation using the shrinking circles technique. <i>Engineering Applications of Artificial Intelligence</i> , 2017, 58, 62-78.	4.3	14
1043	Chaotic gravitational constants for the gravitational search algorithm. <i>Applied Soft Computing Journal</i> , 2017, 53, 407-419.	4.1	235
1044	Grasshopper Optimisation Algorithm: Theory and application. <i>Advances in Engineering Software</i> , 2017, 105, 30-47.	1.8	1,938
1045	A general model for energy hub economic dispatch. <i>Applied Energy</i> , 2017, 190, 1090-1111.	5.1	149
1046	Objective Function and Constraints for Robust Transonic Aerofoil Optimization. , 2017, , .		2
1047	Hybridized gravitational search algorithm tuned sliding mode controller design for load frequency control system with doubly fed induction generator wind turbine. <i>Optimal Control Applications and Methods</i> , 2017, 38, 993-1003.	1.3	29
1048	Integrated optimization of cutting parameters and scheduling for reducing carbon emissions. <i>Journal of Cleaner Production</i> , 2017, 149, 886-895.	4.6	32
1049	Unified particle swarm delivers high efficiency to particle swarm optimization. <i>Applied Soft Computing Journal</i> , 2017, 55, 371-383.	4.1	33
1050	A new design method for adaptive IIR system identification using hybrid CPSO and DE. <i>Nonlinear Dynamics</i> , 2017, 88, 2371-2389.	2.7	31
1051	A novel data clustering algorithm based on modified gravitational search algorithm. <i>Engineering Applications of Artificial Intelligence</i> , 2017, 61, 1-7.	4.3	93
1052	Adaptive infinite impulse response system identification using modified-interior search algorithm with Lévy flight. <i>ISA Transactions</i> , 2017, 67, 266-279.	3.1	38
1053	Design of a fractional-order PID controller for a pumped storage unit using a gravitational search algorithm based on the Cauchy and Gaussian mutation. <i>Information Sciences</i> , 2017, 396, 162-181.	4.0	140
1054	Evolutionary calibration of fractional fuzzy controllers. <i>Applied Intelligence</i> , 2017, 47, 291-303.	3.3	11

#	ARTICLE	IF	CITATIONS
1055	Application of binary quantum-inspired gravitational search algorithm in feature subset selection. Applied Intelligence, 2017, 47, 304-318.	3.3	57
1056	Advanced DC Bias Suppression Strategy based on Finite DC Blocking Devices. IEEE Transactions on Power Delivery, 2017, , 1-1.	2.9	23
1057	A new global particle swarm optimization for the economic emission dispatch with or without transmission losses. Energy Conversion and Management, 2017, 139, 45-70.	4.4	114
1059	Exploitative Gravitational Search Algorithm. Advances in Intelligent Systems and Computing, 2017, , 163-173.	0.5	2
1060	Swarm robotics search & rescue: A novel artificial intelligence-inspired optimization approach. Applied Soft Computing Journal, 2017, 57, 708-726.	4.1	71
1061	Gravity Search Algorithm hybridized Recursive Least Square method for power system harmonic estimation. Engineering Science and Technology, an International Journal, 2017, 20, 874-884.	2.0	22
1062	Review on Inertia Weight Strategies for Particle Swarm Optimization. Advances in Intelligent Systems and Computing, 2017, , 73-83.	0.5	8
1063	Review: Multi-objective optimization methods and application in energy saving. Energy, 2017, 125, 681-704.	4.5	408
1064	Enhanced Artificial Bee Colony Algorithm for QoS-aware Web Service Selection problem. Computing (Vienna/New York), 2017, 99, 507-517.	3.2	25
1065	Metaheuristic design of feedforward neural networks: A review of two decades of research. Engineering Applications of Artificial Intelligence, 2017, 60, 97-116.	4.3	373
1066	Performance investigation of ABC algorithm in multi-area power system with multiple interconnected generators. Applied Soft Computing Journal, 2017, 57, 436-451.	4.1	22
1067	Estimation of transformer parameters from nameplate data by imperialist competitive and gravitational search algorithms. Swarm and Evolutionary Computation, 2017, 36, 18-26.	4.5	32
1068	A fuzzy hierarchical operator in the grey wolf optimizer algorithm. Applied Soft Computing Journal, 2017, 57, 315-328.	4.1	173
1069	Performance of nature inspired optimization algorithms for polymer Enhanced Oil Recovery process. Journal of Petroleum Science and Engineering, 2017, 154, 354-366.	2.1	43
1070	A novel meta-heuristic optimization algorithm: Thermal exchange optimization. Advances in Engineering Software, 2017, 110, 69-84.	1.8	438
1071	Empirical comparison of level-wise hierarchical multi-population genetic algorithm. Journal of Information and Telecommunication, 2017, 1, 66-78.	2.2	7
1072	Applying Optimized Support Vector Regression Models for Prediction of Tunnel Boring Machine Performance. Geotechnical and Geological Engineering, 2017, 35, 2205-2217.	0.8	38
1073	Memory based Hybrid Dragonfly Algorithm for numerical optimization problems. Expert Systems With Applications, 2017, 83, 63-78.	4.4	156

#	ARTICLE	IF	CITATIONS
1074	Gravitation-Based 3-D Redeployment Schemes for the Mobile Sensors and Sink in Gas Leakage Monitoring. IEEE Access, 2017, 5, 8545-8558.	2.6	8
1075	Energy Efficient Cluster Head Selection for Internet of Things. New Review of Information Networking, 2017, 22, 54-70.	0.3	41
1076	A new method using feature extraction for identifying paddy rice species for quality seed selection. Imaging Science Journal, 2017, 65, 226-238.	0.2	5
1077	Metaheuristic Search Algorithms in Solving the n-Similarity Problem. Fundamenta Informaticae, 2017, 152, 145-166.	0.3	2
1078	An adaptive elitism-based immigration for grey wolf optimization algorithm. , 2017, , .		4
1079	Non-dominated sorting moth flame optimization (NS-MFO) for multi-objective problems. Engineering Applications of Artificial Intelligence, 2017, 63, 20-32.	4.3	84
1080	A novel scaling factor based fuzzy logic controller for frequency control of an isolated hybrid power system. Energy, 2017, 130, 339-350.	4.5	46
1081	An evolutionary single Gabor kernel based filter approach to face recognition. Engineering Applications of Artificial Intelligence, 2017, 62, 286-301.	4.3	35
1082	Optimal Installation of Different DG Types in Radial Distribution System Considering Load Growth. Electric Power Components and Systems, 2017, 45, 739-751.	1.0	32
1083	A quantum-inspired binary gravitational search algorithm-based job scheduling model for mobile computational grid. Concurrency Computation Practice and Experience, 2017, 29, e4103.	1.4	10
1084	A new hybrid PSO-GSA algorithm for optimal allocation and sizing of capacitor banks in RDS. , 2017, , .		4
1085	Human mental search: a new population-based metaheuristic optimization algorithm. Applied Intelligence, 2017, 47, 850-887.	3.3	148
1086	Model-free sliding mode control of nonlinear systems: Algorithms and experiments. Information Sciences, 2017, 381, 176-192.	4.0	118
1087	A Novel Hybrid Nature-Inspired Scheme for Solving a Financial Optimization Problem. Lecture Notes in Computer Science, 2017, , 161-172.	1.0	1
1088	Automatic Mining of Quantitative Association Rules with Gravitational Search Algorithm. International Journal of Software Engineering and Knowledge Engineering, 2017, 27, 343-372.	0.6	25
1089	Cell image segmentation using bacterial foraging optimization. Applied Soft Computing Journal, 2017, 58, 770-782.	4.1	26
1090	An astrophysics-inspired Grey wolf algorithm for numerical optimization and its application to engineering design problems. Advances in Engineering Software, 2017, 112, 231-254.	1.8	61
1091	A novel physical based meta-heuristic optimization method known as Lightning Attachment Procedure Optimization. Applied Soft Computing Journal, 2017, 59, 596-621.	4.1	152

#	ARTICLE	IF	CITATIONS
1092	Multilevel image thresholding using entropy of histogram and recently developed population-based metaheuristic algorithms. <i>Evolutionary Intelligence</i> , 2017, 10, 45-75.	2.3	57
1094	Short Term Load Forecasting Based on IGSA-ELM Algorithm. , 2017, , .		7
1095	Operation management of daily economic dispatch using novel hybrid particle swarm optimization and gravitational search algorithm with hybrid mutation strategy. <i>Modern Physics Letters B</i> , 2017, 31, 1740099.	1.0	9
1096	Constrained gravitational search algorithm for large scale reservoir operation optimization problem. <i>Engineering Applications of Artificial Intelligence</i> , 2017, 62, 222-233.	4.3	30
1097	Spotted hyena optimizer: A novel bio-inspired based metaheuristic technique for engineering applications. <i>Advances in Engineering Software</i> , 2017, 114, 48-70.	1.8	773
1098	A modified approach to cross entropy method: Elitist stepped distribution algorithm. <i>Applied Soft Computing Journal</i> , 2017, 58, 756-769.	4.1	9
1099	Estimating the Temperature-Dependent Surface Tension of Ionic Liquids Using a Neural Network-Based Group Contribution Method. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 6869-6886.	1.8	18
1100	Query Expansion for Content-Based Similarity Search Using Local and Global Features. <i>ACM Transactions on Multimedia Computing, Communications and Applications</i> , 2017, 13, 1-23.	3.0	7
1101	Low delay digital IIR filter design using metaheuristic algorithms. , 2017, , .		3
1102	A hybrid feature selection approach based on ensemble method for high-dimensional data. , 2017, , .		18
1103	Gravitational search algorithm-based optimal control of archimedes wave swing-based wave energy conversion system supplying a DC microgrid under uncertain dynamics. <i>IET Renewable Power Generation</i> , 2017, 11, 763-770.	1.7	39
1104	A hybrid intelligent scheme for estimating band gap of doped titanium dioxide semiconductor using crystal lattice distortion. <i>Computational Materials Science</i> , 2017, 137, 249-256.	1.4	19
1105	Stud Multi-Verse Algorithm. , 2017, , .		6
1106	Optimum shape of large-span trusses according to AISC-LRFD using Ranked Particles Optimization. <i>Journal of Constructional Steel Research</i> , 2017, 134, 92-101.	1.7	5
1107	Improvement of Stability in Solar Energy Based Power System Using Hybrid PSO-GS Based Optimal SVC Damping Controller. <i>Energy Procedia</i> , 2017, 109, 130-137.	1.8	8
1108	Integrated resource management for simultaneous project selection and scheduling. <i>Computers and Industrial Engineering</i> , 2017, 109, 39-47.	3.4	39
1109	An optimal LAA subsystem designed using Gravitational Search Algorithm. <i>Engineering Science and Technology, an International Journal</i> , 2017, 20, 494-501.	2.0	6
1110	Spider monkey optimisation assisted particle filter for robust object tracking. <i>IET Computer Vision</i> , 2017, 11, 207-219.	1.3	18

#	ARTICLE	IF	CITATIONS
1111	A Comparative Study of Evolutionary Algorithms with a New Penalty Based Fitness Function for Feature Subset Selection. Lecture Notes in Computer Science, 2017, , 738-747.	1.0	1
1112	Swarm Intelligence Algorithm Based on Competitive Predators with Dynamic Virtual Teams. Journal of Artificial Intelligence and Soft Computing Research, 2017, 7, 87-101.	3.5	9
1113	Local Centre of Mass Face for face recognition under varying illumination. Multimedia Tools and Applications, 2017, 76, 19211-19240.	2.6	5
1114	A new dynamic integrated approach for wind speed forecasting. Applied Energy, 2017, 197, 151-162.	5.1	94
1115	Identification of electrocardiogram signals using internet of things based on combinatorial classification. International Journal of Modeling, Simulation, and Scientific Computing, 2017, 08, 1750035.	0.9	1
1116	Multi-scale segmentation of very high resolution remote sensing image based on gravitational field and optimized region merging. Multimedia Tools and Applications, 2017, 76, 15105-15122.	2.6	7
1117	A niche GSA method with nearest neighbor scheme for multimodal optimization. Swarm and Evolutionary Computation, 2017, 35, 78-92.	4.5	31
1118	The Nature of Nature: Why Nature-Inspired Algorithms Work. Modeling and Optimization in Science and Technologies, 2017, , 1-27.	0.7	2
1119	Hybrid Gravitational Search Algorithm-Particle Swarm Optimization with Time Varying Acceleration Coefficients for large scale CHPED problem. Energy, 2017, 126, 841-853.	4.5	56
1120	A parameter adaptive identification method for a pumped storage hydro unit regulation system model using an improved gravitational search algorithm. Simulation, 2017, 93, 679-694.	1.1	8
1121	A multi-objective approach for resilience-based plant design optimization. Quality Engineering, 2017, 29, 656-671.	0.7	6
1122	Gravitational Search Algorithm with Parameter Adaptation Through a Fuzzy Logic System. Studies in Computational Intelligence, 2017, , 391-405.	0.7	1
1123	A migrant-inspired path planning algorithm for obstacle run using particle swarm optimization, potential field navigation, and fuzzy logic controller. Knowledge Engineering Review, 2017, 32, .	2.1	11
1124	Composite Fault Diagnosis in Wireless Sensor Networks Using Neural Networks. Wireless Personal Communications, 2017, 95, 2507-2548.	1.8	51
1125	Automatic detection of solitary pulmonary nodules using swarm intelligence optimized neural networks on CT images. Engineering Science and Technology, an International Journal, 2017, 20, 1192-1202.	2.0	36
1126	The Gravitational Search Algorithm in Antiresonance Layer Optimization of Laminated Composite Plates. International Journal of Computational Methods, 2017, 14, 1750070.	0.8	3
1127	Speed control with torque ripple reduction of switched reluctance motor by Hybrid Many Optimizing Liaison Gravitational Search technique. Engineering Science and Technology, an International Journal, 2017, 20, 909-921.	2.0	23
1128	Rain-fall optimization algorithm: A population based algorithm for solving constrained optimization problems. Journal of Computational Science, 2017, 19, 31-42.	1.5	110

#	ARTICLE	IF	CITATIONS
1129	Kernel-based learning and feature selection analysis for cancer diagnosis. Applied Soft Computing Journal, 2017, 51, 39-48.	4.1	88
1130	Accelerating bio-inspired optimizer with transfer reinforcement learning for reactive power optimization. Knowledge-Based Systems, 2017, 116, 26-38.	4.0	45
1131	Empowering particle swarm optimization algorithm using multi agents'™ capability: A holonic approach. Knowledge-Based Systems, 2017, 136, 58-74.	4.0	17
1132	A comparative design study and analysis of inner and outer rotor permanent magnet synchronous machine for power generation in vertical axis wind turbine using GSA and GSA-PSO. Sustainable Energy Technologies and Assessments, 2017, 23, 136-148.	1.7	8
1133	Howling mechanism based grey wolf optimizer. , 2017, , .		0
1134	An improved hybrid of particle swarm optimization and the gravitational search algorithm to produce a kinetic parameter estimation of aspartate biochemical pathways. BioSystems, 2017, 162, 81-89.	0.9	11
1135	Improved Variants of Gravitational Search Algorithm Based on 'œBest-so-Far'œ-Updating Mechanism. The National Academy of Sciences, India, 2017, 40, 365-372.	0.8	2
1136	Optimization of design with estimation of performance parameters of inner rotor permanent magnet synchronous machine used in VAWT using GSA and GSA-PSO. International Journal of Energy and Statistics, 2017, 05, 1750007.	0.5	0
1137	Scheduling of Machines and Automated Guided Vehicles in FMS Using Gravitational Search Algorithm. Applied Mechanics and Materials, 0, 867, 307-313.	0.2	29
1138	Enhanced Grey Wolf Optimization Algorithm for Global Optimization. Fundamenta Informaticae, 2017, 153, 235-264.	0.3	46
1139	Opposition based Laplacian Ant Lion Optimizer. Journal of Computational Science, 2017, 23, 71-90.	1.5	58
1140	Hybrid tracking model and GSLM based neural network for crowd behavior recognition. Journal of Central South University, 2017, 24, 2071-2081.	1.2	4
1141	A Review on Artificial Bee Colony Algorithms and Their Applications to Data Clustering. Cybernetics and Information Technologies, 2017, 17, 3-28.	0.4	32
1142	Application of GSA optimized controller parameters in automatic generation control for interconnected power system with governor dead band. , 2017, , .		2
1143	A global optimization algorithm inspired in the behavior of selfish herds. BioSystems, 2017, 160, 39-55.	0.9	135
1144	S-Shaped vs. V-Shaped Transfer Functions for Ant Lion Optimization Algorithm in Feature Selection Problem. , 2017, , .		51
1146	Aircraft Engine Thrust Estimator Design Based on GSA-LSSVM. International Journal of Turbo and Jet Engines, 2017, 34, .	0.3	3
1147	Optimization of economic/environmental operation management for microgrids by using hybrid fireworks algorithm. International Transactions on Electrical Energy Systems, 2017, 27, e2429.	1.2	16

#	ARTICLE	IF	CITATIONS
1148	Distributed trajectory optimization for multiple solar-powered UAVs target tracking in urban environment by Adaptive Grasshopper Optimization Algorithm. Aerospace Science and Technology, 2017, 70, 497-510.	2.5	177
1149	Design optimization of wireless sensor networks in precision agriculture using improved BQIGSA. Sustainable Computing: Informatics and Systems, 2017, 16, 38-47.	1.6	10
1150	An Optimized Reduction Technique via Firefly Algorithm and Gravitational Search Algorithm. Communications in Computer and Information Science, 2017, , 746-759.	0.4	0
1151	Optimal design of BLDC multi-phase reluctance machines (MRM) for variable speed drives. , 2017, , .		0
1152	SMOTE-Least Square Support Vector Machine for Classification of Multiclass Imbalanced Data. , 2017, , .		5
1153	Comprehensive analysis of optimal allocation of capacitor banks in various distribution networks using different hybrid optimization algorithms. , 2017, , .		17
1154	Inclined planes optimization algorithm in optimal architecture of MLP neural networks. , 2017, , .		7
1155	Salp Swarm Algorithm: A bio-inspired optimizer for engineering design problems. Advances in Engineering Software, 2017, 114, 163-191.	1.8	3,369
1156	Optimal sitting and sizing of renewable distributed generations in distribution networks using a hybrid PSO-GSA optimization algorithm. , 2017, , .		18
1157	Co-AGSA: An efficient self-adaptive approach for constrained optimization of analog IC based on the shrinking circles technique. The Integration VLSI Journal, 2017, 59, 218-232.	1.3	3
1158	Optimization of benchmark functions using a nature inspired bird swarm algorithm. , 2017, , .		6
1159	A computationally efficient gravitational search algorithm. , 2017, , .		0
1160	Adaptive switching gravitational search algorithm: an attempt to improve diversity of gravitational search algorithm through its iteration strategy. Sadhana - Academy Proceedings in Engineering Sciences, 2017, 42, 1103-1121.	0.8	4
1161	Mutation: A New Operator in Gravitational Search Algorithm Using Fuzzy Controller. Cybernetics and Information Technologies, 2017, 17, 72-86.	0.4	9
1162	Quad-Rotor Directional Steering System Controller Design Using Gravitational Search Optimization. Intelligent Automation and Soft Computing, 2017, , 1-11.	1.6	0
1163	A New Metaheuristic Method for Optimization: Sonar Inspired Optimization. Communications in Computer and Information Science, 2017, , 417-428.	0.4	19
1164	Variable infiltration capacity model with BCGSA-based wavelet neural network. Stochastic Environmental Research and Risk Assessment, 2017, 31, 1871-1885.	1.9	8
1165	Dynamic social behavior algorithm for real-parameter optimization problems and optimization of hyper beamforming of linear antenna arrays. Engineering Applications of Artificial Intelligence, 2017, 64, 401-414.	4.3	4

#	ARTICLE	IF	CITATIONS
1166	Optimal control system for pressurizer in nuclear power plant based on NMGSA. , 2017, , .		3
1167	Optimal operational efficiency of chillers using oil-free centrifugal compressors. International Journal of Refrigeration, 2017, 82, 83-96.	1.8	11
1168	An improved Opposition-Based Sine Cosine Algorithm for global optimization. Expert Systems With Applications, 2017, 90, 484-500.	4.4	325
1169	The artificial tree (AT) algorithm. Engineering Applications of Artificial Intelligence, 2017, 65, 99-110.	4.3	27
1170	Information sciences 1968â€“2016: A retrospective analysis with text mining and bibliometric. Information Sciences, 2017, 418-419, 619-634.	4.0	163
1171	Hybrid model for stochastic clearing of joint energy and reserves market. IET Generation, Transmission and Distribution, 2017, 11, 2608-2617.	1.4	2
1172	Engineering optimisation by heterogeneous cuckoo search algorithm: Application to an irrigation station. , 2017, , .		1
1173	Nature Inspired Optimization Algorithms Related to Physical Phenomena and Laws of Science: A Survey. International Journal on Artificial Intelligence Tools, 2017, 26, 1750022.	0.7	14
1174	Self-Adaptive Gravitational Search Algorithm With a Modified Chaotic Local Search. IEEE Access, 2017, 5, 17881-17895.	2.6	67
1175	Dynamic simultaneous adaptation of parameters in the grey wolf optimizer using fuzzy logic. , 2017, , .		5
1176	An improved Crow Search Algorithm for high-dimensional problems. Journal of Intelligent and Fuzzy Systems, 2017, 33, 3597-3614.	0.8	44
1177	Complex Assessment of Coagulation Parameters in Pregnant Women Using a Fuzzy Classifier. Bio-Medical Engineering, 2017, 51, 223-228.	0.3	1
1178	A self-adaptive multi-population based Jaya algorithm for engineering optimization. Swarm and Evolutionary Computation, 2017, 37, 1-26.	4.5	186
1179	Hybrid adaptive â€œgbestâ€™â€“guided gravitational search and pattern search algorithm for automatic generation control of multiâ€œarea power system. IET Generation, Transmission and Distribution, 2017, 11, 3257-3267.	1.4	46
1180	Optimal Allocation and Operating Point of DG Units in Radial Distribution Network Considering Load Pattern. Electric Power Components and Systems, 2017, 45, 1287-1297.	1.0	7
1181	Community Detection in Networks by Using Multiobjective Membrane Algorithm. Lecture Notes in Computer Science, 2017, , 419-428.	1.0	0
1182	Optimal cost wide area measurement system incorporating communication infrastructure. IET Generation, Transmission and Distribution, 2017, 11, 2814-2821.	1.4	20
1183	Distribution Network Reconfiguration based on Improved Gravitational Search Algorithm. IOP Conference Series: Earth and Environmental Science, 2017, 73, 012022.	0.2	2

#	ARTICLE	IF	CITATIONS
1184	Feature Selection using Gravitational Search Algorithm for Biomedical Data. <i>Procedia Computer Science</i> , 2017, 115, 258-265.	1.2	48
1185	A comparative study of cuckoo search and flower pollination algorithm on solving global optimization problems. <i>Library Hi Tech</i> , 2017, 35, 588-601.	3.7	12
1186	A novel stacked denoising autoencoder with swarm intelligence optimization for stock index prediction. , 2017, , .		5
1187	An improved gravitational search algorithm for profit-oriented partial disassembly line balancing problem. <i>International Journal of Production Research</i> , 2017, 55, 7302-7316.	4.9	108
1188	Efficient Optimization of Convolutional Neural Networks Using Particle Swarm Optimization. , 2017, , .		38
1189	Re-entry Trajectory Design using Pigeon Inspired Optimization. , 2017, , .		6
1190	Multi-objective VAr planning using fuzzy-GSA. , 2017, , .		2
1191	Gravitational search algorithm with linearly decreasing gravitational constant for parameter estimation of photovoltaic cells. , 2017, , .		16
1192	Team effectiveness based optimization. , 2017, , .		0
1193	Global Optimization of Multimodal Aerodynamic Optimization Benchmark Case. , 2017, , .		6
1194	Machinability performance of Alâ€“NiTi and Alâ€“NiTiâ€“ nano SiC composites with parametric optimization using GSA. <i>Journal of the Australian Ceramic Society</i> , 2017, 53, 599-609.	1.1	4
1195	Hybridizing gravitational search algorithm with real coded genetic algorithms for structural engineering design problem. <i>Opsearch</i> , 2017, 54, 505-536.	1.1	6
1196	An efficient modified grey wolf optimizer with Lévy flight for optimization tasks. <i>Applied Soft Computing Journal</i> , 2017, 60, 115-134.	4.1	349
1197	Topology optimization based on the harmony search method. <i>Journal of Mechanical Science and Technology</i> , 2017, 31, 2875-2882.	0.7	10
1198	Unit commitment by an improved binary quantum GSA. <i>Applied Soft Computing Journal</i> , 2017, 60, 180-189.	4.1	9
1199	Multi objective loading pattern optimization of PWRs with Fuzzy logic controller based Gravitational Search Algorithm. <i>Nuclear Engineering and Design</i> , 2017, 322, 1-13.	0.8	11
1200	Design of a fuzzy-PID controller for a nonlinear hydraulic turbine governing system by using a novel gravitational search algorithm based on Cauchy mutation and mass weighting. <i>Applied Soft Computing Journal</i> , 2017, 52, 290-305.	4.1	70
1201	Spider monkey optimization algorithm for constrained optimization problems. <i>Soft Computing</i> , 2017, 21, 6933-6962.	2.1	48

#	ARTICLE	IF	CITATIONS
1202	A review on the coral reefs optimization algorithm: new development lines and current applications. <i>Progress in Artificial Intelligence</i> , 2017, 6, 1-15.	1.5	52
1203	High-fidelity aerodynamic shape optimization using efficient orthogonal modal design variables with a constrained global optimizer. <i>Computers and Fluids</i> , 2017, 143, 1-15.	1.3	36
1204	QQIGSA: A quadrivalent quantum-inspired GSA and its application in optimal adaptive design of wireless sensor networks. <i>Journal of Network and Computer Applications</i> , 2017, 78, 231-241.	5.8	12
1205	Formal framework for distributed swarm computing: abstract model and properties. <i>Soft Computing</i> , 2017, 21, 4925-4938.	2.1	3
1206	Evolutionary Cost-Sensitive Extreme Learning Machine. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2017, 28, 3045-3060.	7.2	131
1207	Community detection from biological and social networks: A comparative analysis of metaheuristic algorithms. <i>Applied Soft Computing Journal</i> , 2017, 50, 194-211.	4.1	65
1208	Optimal reactive power dispatch by improved GSA-based algorithm with the novel strategies to handle constraints. <i>Applied Soft Computing Journal</i> , 2017, 50, 58-70.	4.1	101
1210	Congestion management of deregulated power systems by optimal setting of Interline Power Flow Controller using Gravitational Search algorithm. <i>Journal of Electrical Systems and Information Technology</i> , 2017, 4, 198-212.	1.2	30
1211	An efficient gbest-guided Cuckoo Search algorithm for higher order two channel filter bank design. <i>Swarm and Evolutionary Computation</i> , 2017, 33, 68-84.	4.5	27
1212	New directional bat algorithm for continuous optimization problems. <i>Expert Systems With Applications</i> , 2017, 69, 159-175.	4.4	204
1213	An efficient parameter estimation of software reliability growth models using gravitational search algorithm. <i>International Journal of Systems Assurance Engineering and Management</i> , 2017, 8, 79-88.	1.5	10
1214	Air quality early-warning system for cities in China. <i>Atmospheric Environment</i> , 2017, 148, 239-257.	1.9	153
1215	Genetic-algorithm-based fault detection of the heat transfer process in nuclear-based hydrogen production based ON Cuâ€“Cl cycle. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 3863-3875.	3.8	5
1216	Efficient Modeling of Linear Discrete Filters Using Ant Lion Optimizer. <i>Circuits, Systems, and Signal Processing</i> , 2017, 36, 1535-1568.	1.2	22
1217	Integrated frequency and power control of an isolated hybrid power system considering scaling factor based fuzzy classical controller. <i>Swarm and Evolutionary Computation</i> , 2017, 32, 184-201.	4.5	35
1218	Optimal and accurate design of fractionalâ€“order digital differentiator â€“ an evolutionary approach. <i>IET Signal Processing</i> , 2017, 11, 181-196.	0.9	31
1220	Collective decision optimization algorithm: A new heuristic optimization method. <i>Neurocomputing</i> , 2017, 221, 123-137.	3.5	70
1221	A new hybrid algorithm for analog ICs optimization based on the shrinking circles technique. <i>The Integration VLSI Journal</i> , 2017, 56, 148-166.	1.3	11

#	ARTICLE	IF	CITATIONS
1222	Snap-drift cuckoo search: A novel cuckoo search optimization algorithm. Applied Soft Computing Journal, 2017, 52, 771-794.	4.1	110
1223	A multi-expert based framework for automatic image annotation. Pattern Recognition, 2017, 61, 169-184.	5.1	13
1224	Model turbine heat rate by fast learning network with tuning based on ameliorated krill herd algorithm. Knowledge-Based Systems, 2017, 118, 80-92.	4.0	25
1225	Termite spatial correlation based particle swarm optimization for unconstrained optimization. Swarm and Evolutionary Computation, 2017, 33, 93-107.	4.5	6
1226	A generic framework for handling constraints with agent-based optimization algorithms and application to aerodynamic design. Optimization and Engineering, 2017, 18, 659-691.	1.3	13
1227	Automation and Control in Greenhouses: State-of-the-Art and Future Trends. Lecture Notes in Electrical Engineering, 2017, , 597-606.	0.3	9
1228	Analysis of optimal voltage stability in power systems with wind power. , 2017, , .		0
1229	Unit commitment using gravitational search algorithm with holomorphic embedded approach. , 2017, , .		2
1230	An enhanced LGSA-SVM for S&P 500 index forecast. , 2017, , .		4
1231	GSA-Based Jammer Localization in Multi-Hop Wireless Network. , 2017, , .		8
1232	Particle swarm optimization algorithm based on parameter improvements. Journal of Computational Methods in Sciences and Engineering, 2017, 17, 557-568.	0.1	10
1233	Hybrid Gravitational Search Algorithm Based on Fuzzy Logic. IEEE Access, 2017, 5, 24520-24532.	2.6	8
1234	A novel sine and cosine algorithm for global optimization. , 2017, , .		7
1235	A novel hybridized grey wolf optimization for a cost optimal design of water distribution network. , 2017, , .		5
1236	Whale optimization algorithm: An implementation to design low-pass FIR filter. , 2017, , .		10
1237	A Multi-objective PMU Placement Method in Power System via Binary Gravitational Search Algorithm. Electric Power Components and Systems, 2017, 45, 1832-1845.	1.0	26
1238	GSA-CHSR: Gravitational Search Algorithm for Cluster Head Selection and Routing in Wireless Sensor Networks. , 2017, , 225-252.		10
1239	A Gravitation-Based Chaos Water Cycle Algorithm for Numerical Optimization. , 2017, , .		2

#	ARTICLE	IF	CITATIONS
1240	GSA based optimal capacity configuration of wind-solar-storage system in microgrid. , 2017, , .		1
1241	The tornadogenesis optimization algorithm. , 2017, , .		5
1242	Cross Entropy Method Meets Local Search for Continuous Optimization Problems. International Journal on Artificial Intelligence Tools, 2017, 26, 1750020.	0.7	2
1243	Chaos-enhanced flower pollination algorithms for global optimization. Journal of Intelligent and Fuzzy Systems, 2017, 33, 3853-3869.	0.8	17
1244	A Bird Flock Gravitational Search Algorithm Based on the Collective Response of Birds. Computer Journal, 2017, 60, 1687-1716.	1.5	1
1245	Pruning Optimum-Path Forest Classifiers Using Multi-Objective Optimization. , 2017, , .		1
1246	Modeling energy band gap of doped TiO ₂ semiconductor using homogeneously hybridized support vector regression with gravitational search algorithm hyper-parameter optimization. AIP Advances, 2017, 7, .	0.6	3
1247	Intelligent neighbourhood teaching learning based optimization algorithm. , 2017, , .		1
1248	Optimal design of fractional order digital differentiator using gravitational search algorithm. , 2017, , .		0
1249	A New Hybrid MCBPSO-GSA Variant for Improving Function Optimization Solution in Search Space. Evolutionary Bioinformatics, 2017, 13, 117693431769985.	0.6	11
1250	Multi-objective security constrained unit commitment problem using normal boundary intersection technique. , 2017, , .		1
1251	Impurity function band prioritization based on particle swarm optimization and gravitational search algorithm for hyperspectral images. , 2017, , .		3
1252	Application of echo state networks for estimating voltage harmonic waveforms in power systems considering a photovoltaic system. IET Renewable Power Generation, 2017, 11, 1688-1694.	1.7	10
1253	A robust MIMO detection algorithm using gravitationally co-ordinated swarm. , 2017, , .		3
1254	Energy Balanced Clustering and Data Gathering for Large-Scale Wireless Sensor Networks. , 2017, , .		0
1255	Selective harmonic elimination in multilevel inverters using gravitational search algorithm. , 2017, , .		1
1256	Empirical investigation and analysis of the computational potentials of bio-inspired nonlinear model predictive controllers: success and challenges. International Journal of Bio-Inspired Computation, 2017, 9, 19.	0.6	3
1257	Parameter Identification of Steam Turbine Speed Governing System Using an Improved Gravitational Search Algorithm. IOP Conference Series: Materials Science and Engineering, 2017, 199, 012103.	0.3	1

#	ARTICLE	IF	CITATIONS
1258	Hybridization of moth flame optimization and gravitational search algorithm and its application to detection of food quality. , 2017, , .		11
1259	Spring search algorithm: A new meta-heuristic optimization algorithm inspired by Hooke's law. , 2017, , .		26
1260	Nature as a Source for Inspiring New Optimization Algorithms. , 2017, , .		4
1261	Critical observation on the exponential growth of nature-inspired computation. , 2017, , .		0
1262	Gravitational Search Algorithm with a New Technique. , 2017, , .		3
1263	Application of gravitational search algorithm in optimization of microstrip antenna at 5 GHz. , 2017, , .		0
1264	Gravitational search algorithm based solution for a class of ternary diophantine equations. Journal of Computational Methods in Sciences and Engineering, 2017, 16, 899-911.	0.1	0
1265	Spotted Hyena Optimizer for Solving Engineering Design Problems. , 2017, , .		64
1266	A CBPSOGSA-SVM hybrid system for classification. , 2017, , .		1
1267	An improvement to gravitational fixed radius nearest neighbor for imbalanced problem. , 2017, , .		1
1268	A particle representation based on considering adaptive particle swarm optimization's parameters in search space. , 2017, , .		0
1269	Gravitational search algorithm optimization for bi-objective flow shop scheduling using weighted dispatching rules. , 2017, , .		1
1270	Optimal allocation of plug-in electric vehicle capacity to produce active, reactive and distorted powers using differential evolution based artificial bee colony algorithm. IET Science, Measurement and Technology, 2017, 11, 1058-1070.	0.9	9
1271	New teaching-learnig based optimization algorithm with random local search: TLBO-RLS. , 2017, , .		0
1272	Optimal digital rational approximation of full band differentiator designed using adaptive gbest-guided gravitational search algorithm. , 2017, , .		0
1273	A Modified Mean Gray Wolf Optimization Approach for Benchmark and Biomedical Problems. Evolutionary Bioinformatics, 2017, 13, 117693431772941.	0.6	26
1274	Hybrid step size based cuckoo search. , 2017, , .		16
1275	Randomized grey wolf optimizer (RGWO) with randomly weighted coefficients. , 2017, , .		15

#	ARTICLE	IF	CITATIONS
1276	Optimal load shedding for radial distribution system using improved gravitational search algorithm. , 2017, , .		0
1277	State monitoring of induced draft fan in thermal power plant by gravitational searching algorithm optimized BP neural network. , 2017, , .		1
1278	Improving Hybrid Gravitational Search Algorithm for Adaptive Adjustment of Parameters. , 2017, , .		0
1279	An Algorithm for Global Optimization Based on CFO-BFGS. , 2017, , .		0
1280	On the Use of Nature Inspired Metaheuristic in Computer Game. , 0, , .		1
1281	A Local Exploitation Based Gravitational search algorithm. , 2017, , .		2
1282	Stochastic fractal search with chaos. , 2017, , .		4
1283	A Hybridization of Gravitational Search Algorithm and Particle Swarm Optimization for Odor Source Localization. International Journal of Robotics Applications and Technologies, 2017, 5, 20-33.	0.4	1
1284	GSO: A New Solution for Solving Unconstrained Optimization Tasks Using Garter Snake's Behavior. , 2017, , .		5
1285	DSSO-Directional Shrinking Search Optimization. IOP Conference Series: Materials Science and Engineering, 2017, 225, 012280.	0.3	2
1286	Artificial Prey-Predator (APP): An efficient approach for numerical function optimization. , 2017, , .		4
1287	A Metaheuristic Algorithm Based on Chemotherapy Science: CSA. Journal of Optimization, 2017, 2017, 1-13.	6.0	23
1288	Multiresponse optimization in wire electric discharge machining (WEDM) of HCHCr steel by integrating response surface methodology (RSM) with differential evolution (DE). , 2017, , 199-221.		16
1289	Forecasting Monthly Electricity Demands: An Application of Neural Networks Trained by Heuristic Algorithms. Information (Switzerland), 2017, 8, 31.	1.7	26
1290	Gravitation-Based Edge Detection in Hyperspectral Images. Remote Sensing, 2017, 9, 592.	1.8	23
1291	An Approach to Predict Debris Flow Average Velocity. Water (Switzerland), 2017, 9, 205.	1.2	11
1292	Gravitational search algorithm combined with modified differential evolution learning for planarization in graph drawing. , 2017, , .		2
1293	Revised Gravitational Search Algorithms Based on Evolutionary-Fuzzy Systems. Algorithms, 2017, 10, 44.	1.2	23

#	ARTICLE	IF	CITATIONS
1294	An Optimization Algorithm Inspired by the Phase Transition Phenomenon for Global Optimization Problems with Continuous Variables. <i>Algorithms</i> , 2017, 10, 119.	1.2	1
1295	Promoting the Quality Level of Signaling in Railway Transportation System Taking Advantage from Wireless Sensor Networks Technology. <i>Computers</i> , 2017, 6, 26.	2.1	4
1296	A States of Matter Search-Based Approach for Solving the Problem of Intelligent Power Allocation in Plug-in Hybrid Electric Vehicles. <i>Energies</i> , 2017, 10, 92.	1.6	16
1297	A Chaos-Embedded Gravitational Search Algorithm for the Identification of Electrical Parameters of Photovoltaic Cells. <i>Energies</i> , 2017, 10, 1052.	1.6	15
1298	Comparative Performance Analysis of Optimal PID Parameters Tuning Based on the Optics Inspired Optimization Methods for Automatic Generation Control. <i>Energies</i> , 2017, 10, 2134.	1.6	45
1299	Physics Inspired Optimization Algorithms. , 2017, , 141-170.		1
1301	Putting Continuous Metaheuristics to Work in Binary Search Spaces. <i>Complexity</i> , 2017, 2017, 1-19.	0.9	135
1302	Two Kinds of Classifications Based on Improved Gravitational Search Algorithm and Particle Swarm Optimization Algorithm. <i>Advances in Mathematical Physics</i> , 2017, 2017, 1-7.	0.4	17
1303	Improving Accuracy of River Flow Forecasting Using LSSVR with Gravitational Search Algorithm. <i>Advances in Meteorology</i> , 2017, 2017, 1-23.	0.6	44
1304	Self-Adaptive Artificial Bee Colony for Function Optimization. <i>Journal of Control Science and Engineering</i> , 2017, 2017, 1-13.	0.8	2
1305	2-DOF PID controller based load frequency control of a hydro-thermal power system. , 2017, , .		0
1306	A Hybrid Lightning Search Algorithm-Simplex Method for Global Optimization. <i>Discrete Dynamics in Nature and Society</i> , 2017, 2017, 1-23.	0.5	13
1307	Solving $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="M1">\rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle k \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ -Barrier Coverage Problem Using Modified Gravitational Search Algorithm. <i>Mathematical Problems in Engineering</i> , 2017, 2017, 1-12.	0.6	3
1308	Hybrid Algorithm of Particle Swarm Optimization and Grey Wolf Optimizer for Improving Convergence Performance. <i>Journal of Applied Mathematics</i> , 2017, 2017, 1-15.	0.4	180
1309	Hybrid Disease Diagnosis Using Multiobjective Optimization with Evolutionary Parameter Optimization. <i>Journal of Healthcare Engineering</i> , 2017, 2017, 1-27.	1.1	37
1310	A Grey Wolf Optimizer for Modular Granular Neural Networks for Human Recognition. <i>Computational Intelligence and Neuroscience</i> , 2017, 2017, 1-26.	1.1	78
1311	Estimation of Distribution Algorithm Using Correlation between Binary Elements: A New Binary-Code Metaheuristic. <i>Mathematical Problems in Engineering</i> , 2017, 2017, 1-15.	0.6	0
1312	A Simplified and Efficient Gravitational Search Algorithm for Unconstrained Optimization Problems. , 2017, , .		3

#	ARTICLE	IF	CITATIONS
1314	Gravitational Search Algorithm With Chaos. , 2017, , 1-16.		2
1315	Brain storm optimization with adaptive search radius for optimization. , 2017, , .		6
1316	INTRODUCING DEEPER NULLS AND REDUCTION OF SIDE-LOBE LEVEL IN LINEAR AND NON-UNIFORM PLANAR ANTENNA ARRAYS USING GRAVITATIONAL SEARCH ALGORITHM. Progress in Electromagnetics Research B, 2017, 73, 131-145.	0.7	10
1317	Incorporation of GSA in SBLLM-based neural network for enhanced estimation of magnetic ordering temperature of manganite. Journal of Intelligent and Fuzzy Systems, 2017, 33, 1225-1233.	0.8	11
1318	Gravitational search algorithm with Gaussian mutation strategy. International Journal of Wireless and Mobile Computing, 2017, 12, 191.	0.1	3
1319	A Hybrid GSA-K-Mean Classifier Algorithm to Predict Diabetes Mellitus. International Journal of Applied Metaheuristic Computing, 2017, 8, 99-112.	0.5	9
1320	Solving Travelling Salesman Problem Using Heart Algorithm. International Journal of Applied Evolutionary Computation, 2017, 8, 32-42.	0.7	1
1321	Generation Bidding Strategy in a Pool-Based Electricity Market Using Oppositional Gravitational Search Algorithm. , 2017, , .		8
1322	AN OPTIMIZATION APPROACH FOR MINIMIZING ENERGY LOSSES OF DISTRIBUTION SYSTEMS BASED ON DISTRIBUTED GENERATION PLACEMENT. Jurnal Teknologi (Sciences and Engineering), 2017, 79, .	0.3	9
1323	Energy Aware Cluster Head Selection for Maximizing Lifetime Improvement in Internet of Things. International Journal of Grid and High Performance Computing, 2017, 9, 71-91.	0.7	3
1324	Multiple Chaos Embedded Gravitational Search Algorithm. IEICE Transactions on Information and Systems, 2017, E100.D, 888-900.	0.4	41
1325	An Adapted Ant-Inspired Algorithm for Enhancing Web Service Composition. International Journal on Semantic Web and Information Systems, 2017, 13, 181-197.	2.2	18
1327	Enhanced shuffled frog-leaping algorithm for solving numerical function optimization problems. Journal of Intelligent Manufacturing, 2018, 29, 1133-1153.	4.4	33
1328	Hybrid approach of optimization applied to an inverse problem in the dynamic modeling of a three-floor structure. Applied Soft Computing Journal, 2018, 65, 412-427.	4.1	1
1329	Single-Agent Finite Impulse Response Optimizer for Numerical Optimization Problems. IEEE Access, 2018, 6, 9358-9374.	2.6	15
1330	A systematic procedure to optimize Integrated Solar Combined Cycle power plants (ISCCs). Applied Thermal Engineering, 2018, 136, 97-107.	3.0	19
1331	A synergy of the sine-cosine algorithm and particle swarm optimizer for improved global optimization and object tracking. Swarm and Evolutionary Computation, 2018, 43, 1-30.	4.5	132
1332	A developed system based on nature-inspired algorithms for DNA motif finding process. Neural Computing and Applications, 2018, 30, 2059-2069.	3.2	2

#	ARTICLE	IF	CITATIONS
1333	New evolutionary optimization method based on information sets. Applied Intelligence, 2018, 48, 3394-3410.	3.3	9
1334	A hybrid gravitational search algorithm with swarm intelligence and deep convolutional feature for object tracking optimization. Applied Soft Computing Journal, 2018, 66, 319-329.	4.1	32
1335	A hybrid model based on synchronous optimisation for multi-step short-term wind speed forecasting. Applied Energy, 2018, 215, 131-144.	5.1	125
1336	Global Optimization of Wing Aerodynamic Optimization Case Exhibiting Multimodality. Journal of Aircraft, 2018, 55, 1576-1591.	1.7	15
1337	Novel DC Bias Suppression Device Based on Adjustable Parallel Resistances. IEEE Transactions on Power Delivery, 2018, 33, 1787-1797.	2.9	14
1338	An Extended Version of Flower Pollination Algorithm. Arabian Journal for Science and Engineering, 2018, 43, 7573-7603.	1.7	13
1339	Fitness varying gravitational constant in GSA. Applied Intelligence, 2018, 48, 3446-3461.	3.3	12
1340	A comprehensive survey on gravitational search algorithm. Swarm and Evolutionary Computation, 2018, 41, 141-158.	4.5	165
1341	Combustion optimization of a boiler based on the chaos and Lévy flight vortex search algorithm. Applied Mathematical Modelling, 2018, 58, 3-18.	2.2	92
1342	A novel chaotic Jaya algorithm for unconstrained numerical optimization. Nonlinear Dynamics, 2018, 93, 1451-1480.	2.7	57
1343	Recognition method of construction conflict based on driver's eye movement. Accident Analysis and Prevention, 2018, 113, 193-201.	3.0	9
1344	Calibration of Fractional Fuzzy Controllers by Using the Social-Spider Method. Studies in Computational Intelligence, 2018, , 35-55.	0.7	1
1345	Intelligent Grey Wolf Optimizer " Development and application for strategic bidding in uniform price spot energy market. Applied Soft Computing Journal, 2018, 69, 1-13.	4.1	65
1346	Shuffled Complex-Self Adaptive Hybrid Evolution (SC-SAHEL) optimization framework. Environmental Modelling and Software, 2018, 104, 215-235.	1.9	29
1347	Shape optimization of automotive body frame using an improved genetic algorithm optimizer. Advances in Engineering Software, 2018, 121, 235-249.	1.8	29
1348	PM2.5 forecasting using SVR with PSOGSA algorithm based on CEEMD, GRNN and GCA considering meteorological factors. Atmospheric Environment, 2018, 183, 20-32.	1.9	131
1349	A New Predictive Model for Strip Crown in Hot Rolling by Using the Hybrid AMPSO-SVR-Based Approach. Steel Research International, 2018, 89, 1800003.	1.0	31
1350	Beer froth artificial bee colony algorithm for job-shop scheduling problem. Applied Soft Computing Journal, 2018, 68, 507-524.	4.1	62

#	ARTICLE	IF	CITATIONS
1351	A decomposition-clustering-ensemble learning approach for solar radiation forecasting. <i>Solar Energy</i> , 2018, 163, 189-199.	2.9	109
1352	Optimising the thermal environment and the ampacity of underground power cables using the gravitational search algorithm. <i>IET Generation, Transmission and Distribution</i> , 2018, 12, 423-430.	1.4	7
1353	CCFS: A cooperating coevolution technique for large scale feature selection on microarray datasets. <i>Computational Biology and Chemistry</i> , 2018, 73, 171-178.	1.1	32
1354	Neural network and fuzzy system for the tuning of Gravitational Search Algorithm parameters. <i>Expert Systems With Applications</i> , 2018, 102, 234-244.	4.4	49
1355	Efficiency determination of in-service induction machines using gravitational search optimization. <i>Measurement: Journal of the International Measurement Confederation</i> , 2018, 118, 156-163.	2.5	6
1356	A maximum power point tracking method for PV system with improved gravitational search algorithm. <i>Applied Soft Computing Journal</i> , 2018, 65, 333-348.	4.1	53
1357	ASCA-PSO: Adaptive sine cosine optimization algorithm integrated with particle swarm for pairwise local sequence alignment. <i>Expert Systems With Applications</i> , 2018, 99, 56-70.	4.4	129
1358	A new chaotic multi-verse optimization algorithm for solving engineering optimization problems. <i>Journal of Experimental and Theoretical Artificial Intelligence</i> , 2018, 30, 293-317.	1.8	62
1359	Tuned-ITSC based SVC for reactive power compensation and harmonic reduction in unbalanced distribution system. <i>IET Generation, Transmission and Distribution</i> , 2018, 12, 571-585.	1.4	27
1360	Performance of Tri-Band Multi-Polarized Array Antenna for 5G Mobile Base Station Adopting Polarization and Directivity Control. <i>IEEE Access</i> , 2018, 6, 8682-8694.	2.6	52
1361	Optimal Type-2 Fuzzy System For Arterial Traffic Signal Control. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2018, 19, 3009-3027.	4.7	42
1362	Community detection in complex networks by using membrane algorithm. <i>International Journal of Modern Physics C</i> , 2018, 29, 1850003.	0.8	10
1363	A hybrid gravitational search and pattern search algorithm for tuning damping controller parameters for a unified power flow controller – A comparative approach. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2018, 31, e2312.	1.2	7
1364	Distributed heuristic adaptive power control algorithms in femto cellular networks for improved performance. <i>Transactions on Emerging Telecommunications Technologies</i> , 2018, 29, e3280.	2.6	1
1365	A hybrid SA-MFO algorithm for function optimization and engineering design problems. <i>Complex & Intelligent Systems</i> , 2018, 4, 195-212.	4.0	66
1367	Stability analysis of Artificial Bee Colony optimization algorithm. <i>Swarm and Evolutionary Computation</i> , 2018, 41, 9-19.	4.5	58
1368	An optimization algorithm for determining a point heat source position in a 2D domain using a hybrid metaheuristic. <i>Journal of Inverse and Ill-Posed Problems</i> , 2018, 26, 335-347.	0.5	2
1369	CFA optimizer: A new and powerful algorithm inspired by Franklin's and Coulomb's laws theory for solving the economic load dispatch problems. <i>International Transactions on Electrical Energy Systems</i> , 2018, 28, e2536.	1.2	46

#	ARTICLE	IF	CITATIONS
1370	Elephant swarm water search algorithm for global optimization. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2018, 43, 1.	0.8	22
1371	Performance Comparison of Metaheuristic Algorithms for the Optimal Design of Space Trusses. <i>Arabian Journal for Science and Engineering</i> , 2018, 43, 5265-5281.	1.7	11
1372	A novel exergy optimization of Bushehr nuclear power plant by gravitational search algorithm (GSA). <i>Energy</i> , 2018, 148, 373-385.	4.5	46
1373	Review on meta-heuristics approaches for airside operation research. <i>Applied Soft Computing Journal</i> , 2018, 66, 104-133.	4.1	86
1374	Optimized Relay Nodes Positioning to Achieve Full Connectivity in Wireless Sensor Networks. <i>Wireless Personal Communications</i> , 2018, 99, 1521-1540.	1.8	33
1375	Energy-Efficient Deployment of Relay Nodes in Wireless Sensor Networks Using Evolutionary Techniques. <i>International Journal of Wireless Information Networks</i> , 2018, 25, 157-172.	1.8	20
1376	A new penalty-based wrapper fitness function for feature subset selection with evolutionary algorithms. <i>Journal of Information and Telecommunication</i> , 2018, 2, 163-180.	2.2	14
1377	A Reactive Power Compensation Scheme for Unbalanced Four-Wire System Using Virtual Y-TCR Model. <i>IEEE Transactions on Industrial Electronics</i> , 2018, 65, 3210-3219.	5.2	14
1378	Active vibration control design using the Coral Reefs Optimization with Substrate Layer algorithm. <i>Engineering Structures</i> , 2018, 157, 14-26.	2.6	24
1379	Gravitational search algorithm-based fuzzy control for a nonlinear ball and beam system. <i>Journal of Control and Decision</i> , 2018, 5, 229-240.	0.7	19
1380	An exploration-enhanced grey wolf optimizer to solve high-dimensional numerical optimization. <i>Engineering Applications of Artificial Intelligence</i> , 2018, 68, 63-80.	4.3	203
1381	Electromagnetism-like mechanism with collective animal behavior for multimodal optimization. <i>Applied Intelligence</i> , 2018, 48, 2580-2612.	3.3	8
1382	A novel quasi-oppositional chaotic antlion optimizer for global optimization. <i>Applied Intelligence</i> , 2018, 48, 2628-2660.	3.3	36
1383	Design and Construction of Electronic Nose for Multi-purpose Applications by Sensor Array Arrangement Using IBSGA. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2018, 92, 205-221.	2.0	13
1384	Optimal design of tuned mass dampers subjected to continuous stationary critical excitation. <i>International Journal of Dynamics and Control</i> , 2018, 6, 1094-1104.	1.5	46
1385	A GSA based hybrid algorithm for bi-objective workflow scheduling in cloud computing. <i>Future Generation Computer Systems</i> , 2018, 83, 14-26.	4.9	123
1386	Inverse hygric property determination based on dynamic measurements and swarm-intelligence optimisers. <i>Building and Environment</i> , 2018, 131, 184-196.	3.0	9
1387	An artificial algae algorithm with stigmergic behavior for binary optimization. <i>Applied Soft Computing Journal</i> , 2018, 64, 627-640.	4.1	32

#	ARTICLE	IF	CITATIONS
1388	An effective gbest-guided gravitational search algorithm for real-parameter optimization and its application in training of feedforward neural networks. Knowledge-Based Systems, 2018, 143, 192-207.	4.0	44
1389	Gravitational search algorithm applied to fixed head hydrothermal power system with transmission line security constraints. Energy, 2018, 155, 392-407.	4.5	7
1390	The exchange market algorithm with smart searching for solving economic dispatch problems. International Journal of Management Science and Engineering Management, 2018, 13, 175-187.	2.6	10
1391	A novel multi-objective optimization algorithm based on artificial algae for multi-objective engineering design problems. Applied Intelligence, 2018, 48, 3762-3781.	3.3	30
1392	Ensemble Shuffled Population Algorithm for multi-objective thermal design optimization of a plate frame heat exchanger operated with Al ₂ O ₃ /water nanofluid. Applied Soft Computing Journal, 2018, 69, 250-269.	4.1	8
1393	Focus Group: An Optimization Algorithm Inspired by Human Behavior. International Journal of Computational Intelligence and Applications, 2018, 17, 1850002.	0.6	11
1394	Owl search algorithm: A novel nature-inspired heuristic paradigm for global optimization. Journal of Intelligent and Fuzzy Systems, 2018, 34, 1573-1582.	0.8	101
1395	Optimizing chaos based image encryption. Multimedia Tools and Applications, 2018, 77, 25569-25590.	2.6	36
1396	A bibliography of metaheuristics-review from 2009 to 2015. International Journal of Knowledge-Based and Intelligent Engineering Systems, 2018, 22, 83-95.	0.7	16
1397	A secondary-decomposition-ensemble learning paradigm for forecasting PM2.5 concentration. Atmospheric Pollution Research, 2018, 9, 989-999.	1.8	62
1398	Automatic Wind Tunnel-Based Optimisation of an Automotive Underbody Diffuser. , 2018, , .		2
1399	An optimum multi-level image thresholding segmentation using non-local means 2D histogram and exponential Kbest gravitational search algorithm. Engineering Applications of Artificial Intelligence, 2018, 71, 226-235.	4.3	136
1400	A Hybrid Harmony search and Simulated Annealing algorithm for continuous optimization. Information Sciences, 2018, 450, 246-266.	4.0	96
1401	Gravitational Search Based Algorithm for Optimal Coordination of Directional Overcurrent Relays Using User Defined Characteristic. Electric Power Components and Systems, 2018, 46, 43-55.	1.0	27
1402	Utilizing the advantages of both global and local search strategies for finding a small subset of features in a two-stage method. Applied Intelligence, 2018, 48, 3502-3522.	3.3	5
1403	Inspired grey wolf optimizer for solving large-scale function optimization problems. Applied Mathematical Modelling, 2018, 60, 112-126.	2.2	130
1404	Multi-modality image fusion based on enhanced fuzzy radial basis function neural networks. Physica Medica, 2018, 48, 11-20.	0.4	18
1405	Congestion control in wireless sensor networks by hybrid multi-objective optimization algorithm. Computer Networks, 2018, 138, 90-107.	3.2	110

#	ARTICLE	IF	CITATIONS
1406	An efficient scheduling scheme for mobile charger in on-demand wireless rechargeable sensor networks. <i>Journal of Network and Computer Applications</i> , 2018, 114, 123-134.	5.8	88
1407	A restructured artificial bee colony optimizer combining life-cycle, local search and crossover operations for droplet property prediction in printable electronics fabrication. <i>Journal of Intelligent Manufacturing</i> , 2018, 29, 109-134.	4.4	0
1408	Coordinated Operation of Natural Gas and Electricity Networks With Microgrid Aggregators. <i>IEEE Transactions on Smart Grid</i> , 2018, 9, 199-210.	6.2	41
1409	Inclined planes system optimization algorithm for IIR system identification. <i>International Journal of Machine Learning and Cybernetics</i> , 2018, 9, 541-558.	2.3	19
1410	Topologies and performance of intelligent algorithms: a comprehensive review. <i>Artificial Intelligence Review</i> , 2018, 49, 79-103.	9.7	46
1411	Adaptive harmony search with best-based search strategy. <i>Soft Computing</i> , 2018, 22, 1335-1349.	2.1	28
1412	Optimization of production time in the multi-pass milling process via a Robust Grey Wolf Optimizer. <i>Neural Computing and Applications</i> , 2018, 29, 1321-1336.	3.2	62
1413	Design and economic optimization of shell-and-tube heat exchanger using cohort intelligence algorithm. <i>Neural Computing and Applications</i> , 2018, 30, 111-125.	3.2	48
1414	Hydro-thermal generation scheduling using integrated gravitational search algorithm and predator-prey optimization technique. <i>Neural Computing and Applications</i> , 2018, 30, 519-538.	3.2	3
1415	Dynamic differential evolution with combined variants and a repair method to solve dynamic constrained optimization problems: an empirical study. <i>Soft Computing</i> , 2018, 22, 541-570.	2.1	7
1416	A novel MPPT algorithm based on optimized artificial neural network by using FPSOGSA for standalone photovoltaic energy systems. <i>Neural Computing and Applications</i> , 2018, 29, 257-278.	3.2	31
1417	Prediction for network traffic of radial basis function neural network model based on improved particle swarm optimization algorithm. <i>Neural Computing and Applications</i> , 2018, 29, 1143-1152.	3.2	17
1418	Multi agent system based on law of gravity and fuzzy logic for coalition formation in multi micro-grids environment. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2018, 9, 337-349.	3.3	7
1419	A comprehensive study of cuckoo-inspired algorithms. <i>Neural Computing and Applications</i> , 2018, 29, 345-361.	3.2	48
1420	Elitist teaching-learning-based optimization (ETLBO) with higher-order Jordan Pi-sigma neural network: a comparative performance analysis. <i>Neural Computing and Applications</i> , 2018, 30, 1445-1468.	3.2	12
1421	DGM (1, 1) model optimized by MVO (multi-verse optimizer) for annual peak load forecasting. <i>Neural Computing and Applications</i> , 2018, 30, 1811-1825.	3.2	26
1422	Reliability-based design optimization using the directional bat algorithm. <i>Neural Computing and Applications</i> , 2018, 30, 2381-2402.	3.2	30
1423	A Dynamic Neighborhood Learning-Based Gravitational Search Algorithm. <i>IEEE Transactions on Cybernetics</i> , 2018, 48, 436-447.	6.2	75

#	ARTICLE	IF	CITATIONS
1424	A solution to the ORPD problem and critical analysis of the results. <i>Electrical Engineering</i> , 2018, 100, 253-265.	1.2	17
1425	A novel chaos-integrated symbiotic organisms search algorithm for global optimization. <i>Soft Computing</i> , 2018, 22, 3797-3816.	2.1	43
1426	BICA: a binary imperialist competitive algorithm and its application in CBIR systems. <i>International Journal of Machine Learning and Cybernetics</i> , 2018, 9, 2043-2057.	2.3	18
1427	Clustering by Local Gravitation. <i>IEEE Transactions on Cybernetics</i> , 2018, 48, 1383-1396.	6.2	61
1428	A Levy flight-based grey wolf optimizer combined with back-propagation algorithm for neural network training. <i>Neural Computing and Applications</i> , 2018, 30, 3707-3720.	3.2	93
1429	Speed control with torque ripple reduction of switched reluctance motor by many optimizing liaison technique. <i>Journal of Electrical Systems and Information Technology</i> , 2018, 5, 829-842.	1.2	27
1430	Optimization of pick-and-place in die attach process using a genetic algorithm. <i>Applied Soft Computing Journal</i> , 2018, 68, 856-865.	4.1	6
1431	Drone Squadron Optimization: a novel self-adaptive algorithm for global numerical optimization. <i>Neural Computing and Applications</i> , 2018, 30, 3117-3144.	3.2	38
1432	Oppositional based grey wolf optimization algorithm for economic dispatch problem of power system. <i>Ain Shams Engineering Journal</i> , 2018, 9, 2015-2025.	3.5	95
1433	Modeling of Curie temperature of manganite for magnetic refrigeration application using manual search and hybrid gravitational-based support vector regression. <i>Soft Computing</i> , 2018, 22, 3023-3032.	2.1	8
1434	Improved gravitational search algorithm with crossover. <i>Computers and Electrical Engineering</i> , 2018, 66, 505-516.	3.0	30
1435	Optimization techniques to enhance the performance of induction motor drives: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 81, 1611-1626.	8.2	127
1436	Accelerated multi-gravitational search algorithm for size optimization of truss structures. <i>Swarm and Evolutionary Computation</i> , 2018, 38, 109-119.	4.5	50
1437	Good practice proposal for the implementation, presentation, and comparison of metaheuristics for solving routing problems. <i>Neurocomputing</i> , 2018, 271, 2-8.	3.5	43
1438	Enhanced IGMM optimization algorithm based on vibration for numerical and engineering problems. <i>Engineering With Computers</i> , 2018, 34, 91-116.	3.5	16
1439	Particle state change algorithm. <i>Soft Computing</i> , 2018, 22, 2641-2666.	2.1	0
1440	An overview and comparative analysis of recent bio-inspired optimization techniques for wind integrated multi-objective power dispatch. <i>Swarm and Evolutionary Computation</i> , 2018, 38, 12-34.	4.5	54
1441	NF-GMDH-Based self-organized systems to predict bridge pier scour depth under debris flow effects. <i>Marine Georesources and Geotechnology</i> , 2018, 36, 589-602.	1.2	83

#	ARTICLE	IF	CITATIONS
1442	Multi-Objective Network Reconfiguration with Optimal DG Output Using Meta-Heuristic Search Algorithms. <i>Arabian Journal for Science and Engineering</i> , 2018, 43, 2673-2686.	1.7	16
1443	A k-means binarization framework applied to multidimensional knapsack problem. <i>Applied Intelligence</i> , 2018, 48, 357-380.	3.3	64
1444	A Robust Stochastic Fractal Search approach for optimization of the surface grinding process. <i>Swarm and Evolutionary Computation</i> , 2018, 38, 173-186.	4.5	53
1445	Transient stability preventive control of power systems using chaotic particle swarm optimization combined with two-stage support vector machine. <i>Electric Power Systems Research</i> , 2018, 155, 111-120.	2.1	37
1446	Optimal design of fractional order low pass Butterworth filter with accurate magnitude response. , 2018, 72, 96-114.		53
1447	A stability constrained adaptive alpha for gravitational search algorithm. <i>Knowledge-Based Systems</i> , 2018, 139, 200-213.	4.0	63
1448	Comparison of Type-2 Fuzzy Integration for Optimized Modular Neural Networks Applied to Human Recognition. <i>Studies in Systems, Decision and Control</i> , 2018, , 285-302.	0.8	0
1449	Efficient Algorithms for Hotspot Problem in Wireless Sensor Networks: Gravitational Search Algorithm. <i>Advances in Intelligent Systems and Computing</i> , 2018, , 41-53.	0.5	6
1450	Fractional gravitational search-radial basis neural network for bone marrow white blood cell classification. <i>Imaging Science Journal</i> , 2018, 66, 106-124.	0.2	8
1451	A modified firefly algorithm for global minimum optimization. <i>Applied Soft Computing Journal</i> , 2018, 62, 29-44.	4.1	99
1452	On Efficiently Solving the Vehicle Routing Problem with Time Windows Using the Bat Algorithm with Random Reinsertion Operators. <i>Studies in Computational Intelligence</i> , 2018, , 69-89.	0.7	12
1453	Chaotic dynamic weight particle swarm optimization for numerical function optimization. <i>Knowledge-Based Systems</i> , 2018, 139, 23-40.	4.0	126
1454	Particle Swarm Optimization with Fuzzy Dynamic Parameters Adaptation for Modular Granular Neural Networks. <i>Advances in Intelligent Systems and Computing</i> , 2018, , 277-288.	0.5	0
1455	Density-based particle swarm optimization algorithm for data clustering. <i>Expert Systems With Applications</i> , 2018, 91, 170-186.	4.4	90
1456	A hybrid particle swarm optimizer with sine cosine acceleration coefficients. <i>Information Sciences</i> , 2018, 422, 218-241.	4.0	137
1457	An Optimized Nonlinear Controller Design for Boilerâ€™Turbine System Using Evolutionary Algorithms. <i>IETE Journal of Research</i> , 2018, 64, 451-462.	1.8	4
1458	Enhanced Performance in Trajectory Tracking of a Ball and Plate System using Fractional Order Controller. <i>IETE Journal of Research</i> , 2018, 64, 76-86.	1.8	17
1459	Large-scale structural optimization using metaheuristic algorithms with elitism and a filter strategy. <i>Structural and Multidisciplinary Optimization</i> , 2018, 57, 799-814.	1.7	17

#	ARTICLE	IF	CITATIONS
1460	Exponential gravitational search algorithm-based VM migration strategy for load balancing in cloud computing. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2018, 09, 1850002.	0.9	5
1461	An Efficient Hybridization Algorithm Based Task Scheduling in Cloud Environment. <i>Journal of Circuits, Systems and Computers</i> , 2018, 27, 1850018.	1.0	9
1462	A band selection method for airborne hyperspectral image based on chaotic binary coded gravitational search algorithm. <i>Neurocomputing</i> , 2018, 273, 57-67.	3.5	39
1463	Introduction to Intelligent Search Algorithms. <i>Studies in Systems, Decision and Control</i> , 2018, , 33-64.	0.8	4
1464	Two-step fault diagnosis framework for rolling element bearings with imbalanced data based on GSA-WELM and GSA-ELM. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2018, 232, 2937-2947.	1.1	7
1465	An improved artificial bee colony algorithm based on the gravity model. <i>Information Sciences</i> , 2018, 429, 49-71.	4.0	54
1466	Modifying the gravitational search algorithm: A functional study. <i>Information Sciences</i> , 2018, 430-431, 87-103.	4.0	7
1467	Truss optimization with natural frequency bounds using improved symbiotic organisms search. <i>Knowledge-Based Systems</i> , 2018, 143, 162-178.	4.0	123
1468	Optimizing parameters of tuned mass damper subjected to critical earthquake. <i>Structural Design of Tall and Special Buildings</i> , 2018, 27, e1460.	0.9	49
1469	Improved Raven Roosting Optimization algorithm (IRRO). <i>Swarm and Evolutionary Computation</i> , 2018, 40, 144-154.	4.5	26
1470	ARAE-SOM+BCO: An enhanced artificial raindrop algorithm using self-organizing map and binomial crossover operator. <i>Neurocomputing</i> , 2018, 275, 2716-2739.	3.5	8
1471	CGSA scheduler: A multi-objective-based hybrid approach for task scheduling in cloud environment. <i>Information Security Journal</i> , 2018, 27, 77-91.	1.3	26
1472	A Comparative Study of Eighteen Self-adaptive Metaheuristic Algorithms for Truss Sizing Optimisation. <i>KSCE Journal of Civil Engineering</i> , 2018, 22, 2982-2993.	0.9	15
1473	Home Energy Management System Using Ant Colony Optimization Technique in Microgrid. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , 2018, , 267-279.	0.5	4
1474	Modified collective decision optimization algorithm with application in trajectory planning of UAV. <i>Applied Intelligence</i> , 2018, 48, 2328-2354.	3.3	11
1475	An Efficient Multi-layer Ensemble Framework with BPSOGSA-Based Feature Selection for Credit Scoring Data Analysis. <i>Arabian Journal for Science and Engineering</i> , 2018, 43, 6909-6928.	1.7	35
1476	Design technique for leakage current reduction in surge arrester using gravitational search algorithm and imperialist competitive algorithm. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , 2018, 37, 357-374.	0.5	1
1477	Variations of cohort intelligence. <i>Soft Computing</i> , 2018, 22, 1731-1747.	2.1	32

#	ARTICLE	IF	CITATIONS
1478	A space transformational invasive weed optimization for solving fixed-point problems. Applied Intelligence, 2018, 48, 942-952.	3.3	5
1479	Gradient based hybrid metaheuristics for robust tuning of power system stabilizers. International Journal of Electrical Power and Energy Systems, 2018, 95, 47-72.	3.3	49
1480	Optimum transistor sizing of CMOS logic circuits using logical effort theory and evolutionary algorithms. The Integration VLSI Journal, 2018, 60, 25-38.	1.3	10
1481	Solving travelling salesman problem using black hole algorithm. Soft Computing, 2018, 22, 8167-8175.	2.1	52
1482	KGSA: A Gravitational Search Algorithm for Multimodal Optimization based on K-Means Niching Technique and a Novel Elitism Strategy. Open Mathematics, 2018, 16, 1582-1606.	0.5	12
1483	An Improved Sine Cosine Algorithm for Solving Optimization Problems. , 2018, , .		17
1484	Meta-heuristic Approaches for Solving Automatic Generation Control Problems: A Brief Review. , 2018, , .		4
1485	A new heuristic algorithm to solve Circle Packing problem inspired by nanoscale electromagnetic fields and gravitational effects. , 2018, , .		3
1486	Efficient Linear Array Synthesis Including Coupling Effects Utilizing Quantum Search Algorithm and Active Element Pattern. , 2018, , .		0
1487	Solving the Problem of Economic Load Dispatch for a Small Scale Power System Using a Novel Hybrid PSO-GSA Algorithm. , 2018, , .		4
1488	Structured Clanning-Based Ensemble Optimization Algorithm: A Novel Approach for Solving Complex Numerical Problems. Modelling and Simulation in Engineering, 2018, 2018, 1-19.	0.4	0
1489	Lifetime Enhancement of Wireless Sensor Networks by using MFO Algorithm. , 2018, , .		2
1490	Hybrid Particle Swarm Optimization and Gravitational Search Algorithm for BLDC Motor Speed Control. , 2018, , .		6
1491	Design of Optimal Model Predictive Controller for LFC of Nonlinear Multi-area Power System with Energy Storage Devices. Electric Power Components and Systems, 2018, 46, 1300-1311.	1.0	44
1493	Gravitational Search Algorithm for Solving Equal Combined Dynamic Economic-Emission Dispatch Problems in Presence of Renewable Energy Sources. , 2018, , .		2
1494	Comparative Analysis of Transfer Function-based Binary Metaheuristic Algorithms for Feature Selection. , 2018, , .		25
1495	Cognitive Radio Design Optimization Over Fading Channels Using PSO, GSA and Hybrid PSOCSA. , 2018, , .		4
1496	Integrated Design of Structure and Control of Motor Servo System Based on Improved Gravitational Search Algorithm. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
1497	Using Grey Wolf Hunting Mechanism to Improve Brain Storm Optimization. , 2018, , .		2
1498	An Optimization Heuristic Based on Non-Dominated Sorting and Tabu Search for the Fixed Spectrum Frequency Assignment Problem. IEEE Access, 2018, 6, 72635-72648.	2.6	10
1499	A Recognition Method of Construction Conflict on the Bases of Driver's Eye Movement. , 2018, , .		0
1500	The Parameter Identification of Least Absolute Deviation Based on an Improved Gravitational Search Algorithm. IOP Conference Series: Materials Science and Engineering, 2018, 435, 012024.	0.3	0
1501	A Compound Structure for Wind Speed Forecasting Using MKLSSVM with Feature Selection and Parameter Optimization. Mathematical Problems in Engineering, 2018, 2018, 1-21.	0.6	4
1502	Gravitational Search Algorithm Based Task Scheduling for Multi-Processor Systems. , 2018, , .		4
1503	Optimization of Modified Sliding Mode Control for an Electro-Hydraulic Actuator System with Mismatched Disturbance. , 2018, , .		2
1504	Evaluation of Pure Gravitational Search Algorithm for Wireless Sensor Networks Coverage Maximization. , 2018, , .		1
1505	A Novel Automatic Parameter Setting Method of PCNN for Image Segmentation. , 2018, , .		4
1506	G ^{1/4} ncel Metasezgisel Optimizasyon Algoritmalar ⁿ Performans Karşılaştırılması. , 2018, , .		3
1507	Impact of Combined Operation of CVR and Energy Storage System in Distribution Grid. , 2018, , .		3
1508	A New PSO-GSA Inspired Convolutional Echo State Network for Long-term Health Status Prediction. , 2018, , .		1
1509	Optimal Torque Control of Parallel Hybrid Power Train based Hybrid Electric Vehicle. , 2018, , .		0
1510	Non-Swarm Plant Intelligence Algorithm: BladderWorts Suction (BWS) Algorithm. , 2018, , .		4
1511	An Efficient Negative Correlation Gravitational Search Algorithm. , 2018, , .		1
1512	Development Trends and Future Prospectus of Control Systems Serving to Hydropower Plant. , 2018, , .		2
1513	Methods for Solving Optimization Problems with a Multimodal Objective Function Based on Hybrid Algorithms. , 2018, , .		0
1514	Optimization methods for power system congestion management: - A Study. , 2018, , .		1

#	ARTICLE	IF	CITATIONS
1515	Evolutionary Optimization Based on Biological Evolution in Plants. <i>Procedia Computer Science</i> , 2018, 126, 146-155.	1.2	45
1516	Speed control of induction motor and control of multilevel inverter output with optimal PI controller using DE and GSA optimization technique. , 2018, , .		0
1517	A Hybrid Salp Swarm Algorithm With Gravitational Search Mechanism. , 2018, , .		6
1518	Coordinating Bidding Strategy of Profit Maximization for Competitive Power Suppliers in Energy and Reserve Markets. , 2018, , .		1
1519	Meta-sezgisel AlgoritmalarÄ±n Ä±ok Boyutlu Problem UzaylarÄ±ndaki Arama PerformanslarÄ±nÄ±n AraÄ±tÄ±rÄ±lmasÄ±. , 2018, , .		0
1520	Automatic Generation of Fuzzy Rules for Control of Mobile Robot with Track Chassis Based on Numerical Data. , 2018, , .		0
1521	A Fuzzy Classifier with Feature Selection Based on the Gravitational Search Algorithm. <i>Symmetry</i> , 2018, 10, 609.	1.1	17
1522	Evolving Deep Neural Networks for Movie Box-Office Revenues Prediction. , 2018, , .		6
1523	Forecasting the Low-Voltage Line Damage Caused by Typhoons in China Based on the Factor Analysis Method and an Improved Gravitational Search Algorithm-Extreme Learning Machine. <i>Energies</i> , 2018, 11, 2321.	1.6	1
1524	Multi-Objective Hybrid WIPSO-GSA Algorithm Based DG and Capacitor Planning for Loss Reduction and Loadability Enhancement in Distribution System. , 2018, , .		0
1525	cKGSa Based Fuzzy Clustering Method for Image Segmentation of RGB-D Images. , 2018, , .		19
1526	A discrete gravitational search algorithm for solving the cell formation problem. <i>Intelligent Decision Technologies</i> , 2018, 12, 335-348.	0.6	0
1527	A Novel Backtracking Search with Grey Wolf Algorithm for Optimization. , 2018, , .		3
1528	Feature Selection Using Binary PSOgSA and Radial Basis Network with a Novel Fitness Function. , 2018, , .		0
1529	Hybrid Air Mass Collision Based Optimization Algorithm for Data Cluster Problems. , 2018, , .		3
1530	Optimizing the Design of Airfoil and Optical Buffer Problems Using Spotted Hyena Optimizer. <i>Designs</i> , 2018, 2, 28.	1.3	67
1531	A Mixed-Strategy-Based Whale Optimization Algorithm for Parameter Identification of Hydraulic Turbine Governing Systems with a Delayed Water Hammer Effect. <i>Energies</i> , 2018, 11, 2367.	1.6	12
1532	Fuzzy galactic swarm optimization with dynamic adjustment of parameters based on fuzzy logic. <i>Journal of Peridynamics and Nonlocal Modeling</i> , 2020, 1, 1.	1.4	1

#	ARTICLE	IF	CITATIONS
1533	Competitive Learning: A New Meta-Heuristic Optimization Algorithm. International Journal on Artificial Intelligence Tools, 2018, 27, 1850035.	0.7	6
1534	Fault Diagnosis Method Based on Kernel Fuzzy C-Means Clustering with Gravitational Search Algorithm. , 2018, , .		2
1535	Multidirectional Grey Wolf Optimizer Algorithm for Solving Global Optimization Problems. International Journal of Computational Intelligence and Applications, 2018, 17, 1850022.	0.6	4
1536	FPGA Eco Unit Commitment Based Gravitational Search Algorithm Integrating Plug-in Electric Vehicles. Energies, 2018, 11, 2547.	1.6	7
1537	On Optimal Sizing of a Solar Thermal Building: A Novel Approach. E3S Web of Conferences, 2018, 57, 04004.	0.2	0
1538	Barnacles Mating Optimizer: An Evolutionary Algorithm for Solving Optimization. , 2018, , .		23
1539	Metaheuristic Algorithms based Multi-objective Optimization for Image Segmentation. , 2018, , .		3
1540	Automatic Generation Control for Hybrid Hydro-Thermal System using Soft Computing Techniques. , 2018, , .		8
1541	A Whole Crow Search Algorithm for Solving Data Clustering. , 2018, , .		7
1542	State of Charge Estimation for Lithium-ion Battery Based on Random Forests Technique with Gravitational Search Algorithm. , 2018, , .		3
1543	A Robustness Study of Metaheuristics to the Optimal Design of RF Integrated Inductors. , 2018, , .		0
1544	Comparative Performance Analysis of AVR Controllers Using Modern Optimization Techniques. Electric Power Components and Systems, 2018, 46, 2117-2130.	1.0	51
1545	Particle Swarm optimization of a Non-Linear Kalman Filter for Sensorles Control of Induction Motors. , 2018, , .		2
1546	Lifetime Enhancement of WSN Using Evolutionary Clustering and Routing Algorithms. , 2018, , .		2
1547	Feature Selection for Cryotherapy and Immunotherapy Treatment Methods Based on Gravitational Search Algorithm. , 2018, , .		9
1548	Comparison of modern heuristic algorithms for loss reduction in power distribution network equipped with renewable energy resources. Ain Shams Engineering Journal, 2018, 9, 3347-3358.	3.5	14
1549	An image segmentation method using logarithmic kbest gravitational search algorithm based superpixel clustering. Evolutionary Intelligence, 2018, 14, 1293.	2.3	12
1550	A Double Evolutionary Learning Moth-Flame Optimization for Real-Parameter Global Optimization Problems. IEEE Access, 2018, 6, 76700-76727.	2.6	44

#	ARTICLE	IF	CITATIONS
1551	Analysing Convergence, Consistency, and Trajectory of Artificial Bee Colony Algorithm. IEEE Access, 2018, 6, 73593-73602.	2.6	14
1552	Hybrid WIPSO-GSA Algorithm Based Optimal DG and Capacitor Planning Considering Different Load Types and Load Levels. , 2018, , .		0
1553	Extreme Learning Machine for SOC Estimation of Lithium-ion battery Using Gravitational Search Algorithm. , 2018, , .		4
1554	Performance Comparison of Nature-Inspired Optimization Algorithms Applied to MVDR Technique for Canceling Multiple Access Interference Signals. Indian Journal of Science and Technology, 2018, 11, 1-20.	0.5	1
1555	A comparative evaluation of Gravitational Search Algorithm (GSA) against Artificial Bee Colony (ABC) for thermodynamic performance of a geothermal power plant. Energy, 2018, 165, 1061-1077.	4.5	11
1556	Proposed Energy Efficient Algorithm for Clustering and Routing in WSN. Wireless Personal Communications, 2018, 103, 2575-2598.	1.8	32
1557	A novel adaptive beamforming with reduced side lobe level using GSA. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2018, 37, 2263-2278.	0.5	9
1558	Improved grey wolf optimization technique for fuzzy aided PID controller design for power system frequency control. Sustainable Energy, Grids and Networks, 2018, 16, 278-299.	2.3	74
1559	Improved Adaptive Particle Swarm Optimization for Optimization Functions and Clustering Fuzzy Modeling System. International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, 2018, 26, 717-739.	0.9	8
1560	Optimal allocation of energy storage systems considering wind power uncertainty. Journal of Energy Storage, 2018, 20, 244-253.	3.9	44
1561	Is Gravitational Search Algorithm's Initial Gravitational Constant a Function Dependent Parameter?. , 2018, , .		0
1562	Water resources management sustainability: Review of the simulation and optimization approaches. AIP Conference Proceedings, 2018, , .	0.3	0
1563	Computational Intelligence Techniques in Smart grid planning and operation: A Survey. , 2018, , .		2
1564	Quantitative analysis of LIBS spectra using hybrid chemometric models through fusion of extreme learning machines and support vector regression. Journal of Intelligent and Fuzzy Systems, 2018, 35, 6277-6286.	0.8	13
1565	Accelerative Factor Based Spider Monkey Optimization. , 2018, , .		2
1566	Fault Diagnosis of Bearing by Utilizing LWT-SPSR-SVD-Based RVM with Binary Gravitational Search Algorithm. Shock and Vibration, 2018, 2018, 1-8.	0.3	4
1567	An efficient opposition based Lévy Flight Antlion optimizer for optimization problems. Journal of Computational Science, 2018, 29, 119-141.	1.5	54
1568	Spider Monkey Optimization Algorithm with Enhanced Learning. Communications in Computer and Information Science, 2018, , 388-401.	0.4	0

#	ARTICLE	IF	CITATIONS
1569	Evolutionary Computation based Feature Selection: A Survey. , 2018, , .		3
1570	Particle Swarm Optimization: A Survey of Historical and Recent Developments with Hybridization Perspectives. Machine Learning and Knowledge Extraction, 2018, 1, 157-191.	3.2	322
1571	LÃ©vy flight trajectory-based whale optimization algorithm for engineering optimization. Engineering Computations, 2018, 35, 2406-2428.	0.7	55
1572	Fast Optimization for VCOs Using GSA Algorithm. , 2018, , .		0
1573	Numerical Optimization Using the Heart Algorithm. International Journal of Applied Evolutionary Computation, 2018, 9, 33-37.	0.7	0
1574	Data clustering using K-Means based on Crow Search Algorithm. Sadhana - Academy Proceedings in Engineering Sciences, 2018, 43, 1.	0.8	25
1575	Emerging Areas in Intelligent Fuzzy Control and Future Research Scopes. Cognitive Intelligence and Robotics, 2018, , 297-300.	0.6	0
1576	Fuzzy Controller Design III: Hybrid Adaptive Approaches. Cognitive Intelligence and Robotics, 2018, , 101-156.	0.6	0
1577	An ameliorated particle swarm optimizer for solving numerical optimization problems. Applied Soft Computing Journal, 2018, 73, 482-496.	4.1	44
1578	Optimisation of curvilinear external shading of windows in cellular offices. PLoS ONE, 2018, 13, e0203575.	1.1	4
1579	Optimal-combined model for air quality index forecasting: 5 cities in North China. Environmental Pollution, 2018, 243, 842-850.	3.7	44
1580	Some Contemporary Stochastic Optimization Algorithms: A Glimpse. Cognitive Intelligence and Robotics, 2018, , 23-36.	0.6	1
1581	Biometric pattern recognition using wide networks of gravity proximity measures. Journal of Physics: Conference Series, 2018, 1050, 012082.	0.3	1
1582	Enhanced Computational Model for Gravitational Search Optimized Echo State Neural Networks Based Oral Cancer Detection. Journal of Medical Systems, 2018, 42, 205.	2.2	16
1583	Modeling of autoignition temperature of organic energetic compounds using hybrid intelligent method. Chemical Engineering Research and Design, 2018, 120, 79-86.	2.7	17
1584	A Cognitively Inspired Hybridization of Artificial Bee Colony and Dragonfly Algorithms for Training Multi-layer Perceptrons. Cognitive Computation, 2018, 10, 1096-1134.	3.6	45
1585	Placement and sizing of multiple distributed generation and battery swapping stations using grasshopper optimizer algorithm. Energy, 2018, 165, 408-421.	4.5	56
1586	Configuration Optimization of Wind-Solar-Storage System considering Demand Response. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
1587	Data Mining Based Strategy for Detecting Malicious PDF Files. , 2018, , .		4
1588	Antenna Design by Means of the Fruit Fly Optimization Algorithm. Electronics (Switzerland), 2018, 7, 3.	1.8	12
1589	Optimization using lion algorithm: a biological inspiration from lion's social behavior. Evolutionary Intelligence, 2018, 11, 31-52.	2.3	124
1590	Resource Scheduling Approach Using a Quantum Variant of Gravitational Search Algorithm in Computational Mobile Grid. , 2018, , .		0
1591	A whale optimization algorithm (WOA) approach for clustering. Cogent Mathematics & Statistics, 2018, 5, 1483565.	0.9	156
1592	A VVWBO-BVO-based GM (1,1) and its parameter optimization by GRA-IGSA integration algorithm for annual power load forecasting. PLoS ONE, 2018, 13, e0196816.	1.1	11
1593	Application of Hybrid Meta-Heuristic Techniques for Optimal Load Shedding Planning and Operation in an Islanded Distribution Network Integrated with Distributed Generation. Energies, 2018, 11, 1134.	1.6	24
1594	A Novel Hybrid GWO-PS Algorithm for Standard Benchmark Optimization Problems. INAE Letters, 2018, 3, 217-241.	1.0	12
1595	Descriptor selection evaluation of binary gravitational search algorithm in quantitative structure-activity relationship studies of benzyl phenyl ether diamidine's antiprotozoal activity and Chalcone's anticancer potency. Chemometrics and Intelligent Laboratory Systems, 2018, 182, 31-40.	1.8	3
1596	Cauchy Grey Wolf Optimiser for continuous optimisation problems. Journal of Experimental and Theoretical Artificial Intelligence, 2018, 30, 1051-1075.	1.8	33
1597	Speech Emotion Recognition Based on Kernel Principal Component Analysis and Optimized Support Vector Machine. , 2018, , .		0
1598	PARAMETER OPTIMIZATION USING SWARM INTELLIGENCE. Journal of Japan Society of Civil Engineers Ser A2 (Applied Mechanics (AM)), 2018, 74, 1_33-1_44.	0.1	0
1599	Gravitational Search Algorithm Optimized State Feedback Load Frequency Controller. , 2018, , .		3
1600	Performance comparison of four phase SRM using Many optimising Liaison and Gravitational Search Algorithm. , 2018, , .		0
1601	Using BUA algorithm to solve a sequential pick and place problem. , 2018, , .		5
1602	Reconstruction of 3D curves and surfaces using new variants of gravitational search algorithm. Journal of Information and Optimization Sciences, 2018, 39, 1199-1221.	0.2	1
1603	Sperm Swarm Optimization Algorithm for Optimizing Wireless Sensor Network Challenges. , 2018, , .		29
1604	A novel cuckoo search algorithm with multiple update rules. Applied Intelligence, 2018, 48, 4192-4211.	3.3	11

#	ARTICLE	IF	CITATIONS
1605	Meta-heuristic optimization algorithms for design of gain constrained state variable filter. AEU - International Journal of Electronics and Communications, 2018, 93, 7-18.	1.7	13
1606	Optimized gravitational-based data clustering algorithm. Engineering Applications of Artificial Intelligence, 2018, 73, 126-148.	4.3	14
1607	Comparison of heuristic methods for developing optimized neural network based models to predict amphiphobic behavior of fluorosilica coated surfaces. Surface and Coatings Technology, 2018, 349, 289-295.	2.2	3
1608	An improved grey wolf optimizer algorithm for the inversion of geoelectrical data. Acta Geophysica, 2018, 66, 607-621.	1.0	7
1609	Fractional Gravitational Grey Wolf Optimization to Multi-Path Data Transmission in IoT. Wireless Personal Communications, 2018, 102, 411-436.	1.8	19
1610	Adaptive jammer localization in wireless networks. Computer Networks, 2018, 141, 17-30.	3.2	19
1611	Using Black Hole Algorithm to Improve EEG-Based Emotion Recognition. Computational Intelligence and Neuroscience, 2018, 2018, 1-21.	1.1	32
1612	Modified Artificial Physics Optimization for Multi-parameter Functions. Iranian Journal of Science and Technology - Transactions of Electrical Engineering, 2018, 42, 465-478.	1.5	9
1613	Synthesis of multi-polarised upside conical frustum array antenna for 5G mmWave base station at 28/38 GHz. IET Microwaves, Antennas and Propagation, 2018, 12, 1559-1569.	0.7	36
1614	Comparison of Point Design and Range-Based Objectives for Transonic Aerofoil Optimization. AIAA Journal, 2018, 56, 3240-3256.	1.5	7
1615	Optimal placement of phasor measurement units using clustered gravitational search algorithm. Journal of Intelligent and Fuzzy Systems, 2018, 34, 4315-4330.	0.8	2
1616	Use of modified hybrid PSO-GSA for optimum design of RC frame. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers, Series A/Chung-kuo Kung Ch'eng Hsueh K'an, 2018, 41, 342-352.	0.6	14
1617	Analysis of slope stability and detection of critical failure surface using gravitational search algorithm. , 2018, , .		8
1618	Agribusiness time series forecasting using Wavelet neural networks and metaheuristic optimization: An analysis of the soybean sack price and perishable products demand. International Journal of Production Economics, 2018, 203, 174-189.	5.1	37
1619	Application and Development of Enhanced Chaotic Grasshopper Optimization Algorithms. Modelling and Simulation in Engineering, 2018, 2018, 1-14.	0.4	34
1620	A memetic particle gravitation optimization algorithm for solving image segmentation. , 2018, , .		2
1621	Motor imagery task classification using intelligent algorithm with prominent trial selection. Journal of Intelligent and Fuzzy Systems, 2018, 35, 1501-1510.	0.8	4
1622	Efficient and Accurate Traffic Flow Prediction via Incremental Tensor Completion. IEEE Access, 2018, 6, 36897-36905.	2.6	7

#	ARTICLE	IF	CITATIONS
1623	An Intelligent Grey Wolf Optimizer Algorithm for Distributed Compressed Sensing. Computational Intelligence and Neuroscience, 2018, 2018, 1-10.	1.1	18
1624	Solving economic load dispatch using space reduction based PSO. , 2018, , .		0
1625	Development of a new metaheuristic inspired in the thermodynamic fluid phases equilibrium. , 2018, , .		0
1626	TGA: Team game algorithm. Future Computing and Informatics Journal, 2018, 3, 191-199.	0.4	26
1627	Jammer Localization in Multihop Wireless Networks Based on Gravitational Search. Security and Communication Networks, 2018, 2018, 1-11.	1.0	5
1628	Modified whale optimization algorithm for fractional-order multi-input SSSC-based controller design. Optimal Control Applications and Methods, 2018, 39, 1802-1817.	1.3	31
1629	DL-GSA: A Deep Learning Metaheuristic Approach to Missing Data Imputation. Lecture Notes in Computer Science, 2018, , 513-521.	1.0	2
1630	Simultaneous size and geometry optimization of steel trusses under dynamic excitations. Structural and Multidisciplinary Optimization, 2018, 58, 2545-2563.	1.7	21
1631	A comprehensive review of quadratic assignment problem: variants, hybrids and applications. Journal of Ambient Intelligence and Humanized Computing, 0, , 1.	3.3	32
1632	A hybrid grey wolf optimizer and artificial bee colony algorithm for enhancing the performance of complex systems. Journal of Computational Science, 2018, 27, 284-302.	1.5	79
1633	Multi-Objective Hybrid WIPSO-GSA Algorithm-Based DG and Capacitor Planning for Reduction of Power Loss and Voltage Deviation in Distribution System. Smart Science, 2018, 6, 295-307.	1.9	3
1634	A hybrid GA-GSA novel algorithm for data clustering. , 2018, , .		0
1635	Optimal reactive power resources sizing for power system operations enhancement based on improved grey wolf optimiser. IET Generation, Transmission and Distribution, 2018, 12, 3421-3434.	1.4	32
1636	ASBSO: An Improved Brain Storm Optimization With Flexible Search Length and Memory-Based Selection. IEEE Access, 2018, 6, 36977-36994.	2.6	33
1637	Filter-based feature selection for microarray data using improved binary gravitational search algorithm. , 2018, , .		11
1638	Learning automata-based butterfly optimization algorithm for engineering design problems. International Journal of Computational Materials Science and Engineering, 2018, 07, 1850021.	0.5	23
1639	Energy Aware GSA-Based Load Balancing Method in Cloud Computing Environment. Advances in Intelligent Systems and Computing, 2018, , 283-292.	0.5	1
1640	A bare bones bacterial foraging optimization algorithm. Cognitive Systems Research, 2018, 52, 301-311.	1.9	19

#	ARTICLE	IF	CITATIONS
1641	A Central Force Optimization Approach for Data Clustering. IETE Journal of Research, 0, , 1-9.	1.8	1
1642	A hybrid gravitational search algorithm for unconstrained problems. , 2018, , .		1
1643	GPSO-ICA: Independent Component Analysis based on Gravitational Particle Swarm Optimization for blind source separation. Journal of Intelligent and Fuzzy Systems, 2018, 35, 1943-1957.	0.8	5
1644	Cloudy GSA for load scheduling in cloud computing. Applied Soft Computing Journal, 2018, 71, 861-871.	4.1	30
1645	Spectrum Allocation Based on an Improved Gravitational Search Algorithm. Algorithms, 2018, 11, 27.	1.2	2
1646	A Gradient-Based Cuckoo Search Algorithm for a Reservoir-Generation Scheduling Problem. Algorithms, 2018, 11, 36.	1.2	5
1647	A Novel Dynamic Generalized Opposition-Based Grey Wolf Optimization Algorithm. Algorithms, 2018, 11, 47.	1.2	2
1648	Impact of Optimum Allocation of Renewable Distributed Generations on Distribution Networks Based on Different Optimization Algorithms. Energies, 2018, 11, 245.	1.6	42
1649	A Fuzzy Gravitational Search Algorithm to Design Optimal IIR Filters. Energies, 2018, 11, 736.	1.6	19
1650	MWWO: Modified water wave optimization. , 2018, , .		5
1651	Improving Particle Swarm Optimization Based on Neighborhood and Historical Memory for Training Multi-Layer Perceptron. Information (Switzerland), 2018, 9, 16.	1.7	13
1652	Forecasting Monthly Electricity Demands by Wavelet Neuro-Fuzzy System Optimized by Heuristic Algorithms. Information (Switzerland), 2018, 9, 51.	1.7	14
1653	Long-Term Hydropower Generation of Cascade Reservoirs under Future Climate Changes in Jinsha River in Southwest China. Water (Switzerland), 2018, 10, 235.	1.2	21
1654	Robust design of modern multi-band PSS using gravitational search algorithm. , 2018, , .		0
1655	A meta-heuristic optimization based residential load pattern clustering approach using improved Gravitational Search Algorithm. , 2018, , .		6
1656	Efficient Privacy-Preserving Data Sanitization over Cloud Using Optimal GSA Algorithm. Computer Journal, 2018, 61, 1577-1588.	1.5	6
1657	Farmland fertility: A new metaheuristic algorithm for solving continuous optimization problems. Applied Soft Computing Journal, 2018, 71, 728-746.	4.1	258
1658	An improved hybrid particle swarm optimization with dependent random coefficients for global optimization. , 2018, , .		2

#	ARTICLE	IF	CITATIONS
1659	A dynamic metaheuristic optimization model inspired by biological nervous systems: Neural network algorithm. <i>Applied Soft Computing Journal</i> , 2018, 71, 747-782.	4.1	176
1660	Parameter optimization of PEMFC model using backtracking search algorithm. , 2018, , .		9
1661	The Social Engineering Optimizer (SEO). <i>Engineering Applications of Artificial Intelligence</i> , 2018, 72, 267-293.	4.3	198
1662	Tree Growth Algorithm (TGA): A novel approach for solving optimization problems. <i>Engineering Applications of Artificial Intelligence</i> , 2018, 72, 393-414.	4.3	157
1663	A very optimistic method of minimization (VOMMI) for unconstrained problems. <i>Information Sciences</i> , 2018, 454-455, 255-274.	4.0	12
1664	Development of hybrid extreme learning machine based chemo-metrics for precise quantitative analysis of LIBS spectra using internal reference pre-processing method. <i>Analytica Chimica Acta</i> , 2018, 1030, 33-41.	2.6	35
1665	Augmented grey wolf optimizer for grid-connected PMSG-based wind energy conversion systems. <i>Applied Soft Computing Journal</i> , 2018, 69, 504-515.	4.1	110
1666	A novel hybrid model for two-phase image segmentation: GSA based Chanâ€“Vese algorithm. <i>Engineering Applications of Artificial Intelligence</i> , 2018, 73, 22-30.	4.3	9
1667	Short-Term Urban Water Demand Prediction Considering Weather Factors. <i>Water Resources Management</i> , 2018, 32, 4527-4542.	1.9	56
1668	Market segmentation using supervised and unsupervised learning techniques for E-commerce applications. <i>Journal of Intelligent and Fuzzy Systems</i> , 2018, 35, 5353-5363.	0.8	4
1669	Economic and Emission Dispatch Using Ensemble Multi-Objective Differential Evolution Algorithm. <i>Sustainability</i> , 2018, 10, 418.	1.6	25
1670	Metaheuristic Algorithms: A Comprehensive Review. , 2018, , 185-231.		225
1671	Social Algorithms. , 2018, , 549-563.		2
1672	Fuzzy Gravitational Search Approach to a Hybrid Data Model Based Recommender System. <i>Lecture Notes in Computer Science</i> , 2018, , 337-348.	1.0	0
1673	BAS: Beetle Antennae Search Algorithm for Optimization Problems. <i>International Journal of Robotics and Control</i> , 2018, 1, 1.	0.5	258
1674	Network expansion planning with microgrid aggregators under uncertainty. <i>IET Generation, Transmission and Distribution</i> , 2018, 12, 2105-2114.	1.4	7
1675	Modified Spider Monkey Optimization based on Nelderâ€“Mead method for global optimization. <i>Expert Systems With Applications</i> , 2018, 110, 264-289.	4.4	39
1676	Improved grasshopper optimization algorithm using opposition-based learning. <i>Expert Systems With Applications</i> , 2018, 112, 156-172.	4.4	272

#	ARTICLE	IF	CITATIONS
1677	Prediction of Slope Stability Using Four Supervised Learning Methods. IEEE Access, 2018, 6, 31169-31179.	2.6	63
1678	Emperor penguin optimizer: A bio-inspired algorithm for engineering problems. Knowledge-Based Systems, 2018, 159, 20-50.	4.0	558
1679	Model-free chaos control based on AHGSA for a vibro-impact system. Nonlinear Dynamics, 2018, 94, 845-855.	2.7	9
1680	Improving Twin Support Vector Machine Based on Hybrid Swarm Optimizer for Heartbeat Classification. Pattern Recognition and Image Analysis, 2018, 28, 243-253.	0.6	36
1681	Automatic Genetic Fuzzy c-Means. Journal of Intelligent Systems, 2019, 29, 529-539.	1.2	1
1682	Galactic Gravitational Search Algorithm for Numerical Optimization. Lecture Notes in Computer Science, 2018, , 397-409.	1.0	2
1683	An enhanced moth-flame optimizer for solving non-smooth economic dispatch problems with emissions. Energy, 2018, 157, 1063-1078.	4.5	80
1684	Accelerated Opposition-Based Antlion Optimizer with Application to Order Reduction of Linear Time-Invariant Systems. Arabian Journal for Science and Engineering, 2019, 44, 2213-2241.	1.7	28
1685	RideNN: A New Rider Optimization Algorithm-Based Neural Network for Fault Diagnosis in Analog Circuits. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 2-26.	2.4	207
1687	A novel atom search optimization for dispersion coefficient estimation in groundwater. Future Generation Computer Systems, 2019, 91, 601-610.	4.9	166
1688	Teaching-learning-based optimization algorithm to minimize cross entropy for Selecting multilevel threshold values. Egyptian Informatics Journal, 2019, 20, 11-25.	4.4	61
1689	An Improved Global-Best-Guided Cuckoo Search Algorithm for Multiplierless Design of Two-Dimensional IIR Filters. Circuits, Systems, and Signal Processing, 2019, 38, 805-826.	1.2	10
1690	An improved sine-cosine algorithm based on orthogonal parallel information for global optimization. Soft Computing, 2019, 23, 7135-7161.	2.1	46
1691	Optimized feature selection algorithm based on fireflies with gravitational ant colony algorithm for big data predictive analytics. Neural Computing and Applications, 2019, 31, 1391-1403.	3.2	26
1692	Feature selection for image steganalysis using levy flight-based grey wolf optimization. Multimedia Tools and Applications, 2019, 78, 1473-1494.	2.6	60
1693	A new binary salp swarm algorithm: development and application for optimization tasks. Neural Computing and Applications, 2019, 31, 1641-1663.	3.2	104
1694	A quantum-inspired vortex search algorithm with application to function optimization. Natural Computing, 2019, 18, 647-674.	1.8	9
1695	Chemical Reaction Optimization: A Survey with Application and Challenges. Advances in Intelligent Systems and Computing, 2019, , 507-524.	0.5	4

#	ARTICLE	IF	CITATIONS
1696	Seeker optimized SVC-PID controller for reactive power control of an isolated hybrid power system. Energy Systems, 2019, 10, 985-1015.	1.8	7
1697	Spotted Hyena Optimizer for Solving Complex and Non-linear Constrained Engineering Problems. Advances in Intelligent Systems and Computing, 2019, , 857-867.	0.5	56
1698	HWPSO: A new hybrid whale-particle swarm optimization algorithm and its application in electronic design optimization problems. Applied Intelligence, 2019, 49, 265-291.	3.3	59
1699	Clustering of Remote Sensing Imagery Using a Social Recognition-Based Multi-objective Gravitational Search Algorithm. Cognitive Computation, 2019, 11, 789-798.	3.6	14
1700	A comprehensive study on evolutionary algorithm-based multilayer perceptron for real-world data classification under uncertainty. Expert Systems, 2019, 36, e12327.	2.9	3
1701	Partial shading mitigation of PV systems via different meta-heuristic techniques. Renewable Energy, 2019, 130, 1159-1175.	4.3	141
1702	Optimal Placement and Sizing of Photovoltaic Based Distributed Generation Considering Costs of Operation Planning of Monocrystalline and Thin-Film Technologies. Journal of Solar Energy Engineering, Transactions of the ASME, 2019, 141, .	1.1	9
1703	Nondominated sorting-based disruption in oppositional gravitational search algorithm for stochastic multiobjective short-term hydrothermal scheduling. Soft Computing, 2019, 23, 7229-7248.	2.1	7
1704	Biology migration algorithm: a new nature-inspired heuristic methodology for global optimization. Soft Computing, 2019, 23, 7333-7358.	2.1	25
1705	Intelligent nonlinear model predictive control of gas pipeline networks. Transactions of the Institute of Measurement and Control, 2019, 41, 4569-4589.	1.1	1
1706	Combining a gravitational search algorithm, particle swarm optimization, and fuzzy rules to improve the classification performance of a feed-forward neural network. Computer Methods and Programs in Biomedicine, 2019, 180, 105016.	2.6	15
1707	Optimization of a hybrid phase-change memory cell using the water cycle algorithm. Journal of Computational Electronics, 2019, 18, 1192-1200.	1.3	2
1708	Impact of Load Profile on Dynamic Interactions Between Energy Markets: A Case Study of Power Exchange and Demand Response Exchange. IEEE Transactions on Industrial Informatics, 2019, 15, 5855-5866.	7.2	15
1709	An Adaptive Whale Optimization Algorithm Using Gaussian Distribution Strategies and Its Application in Heterogeneous UCAVs Task Allocation. IEEE Access, 2019, 7, 110138-110158.	2.6	20
1710	Whale optimization algorithm to tune PID and PIDA controllers on AVR system. Ain Shams Engineering Journal, 2019, 10, 755-767.	3.5	114
1711	A New Hybrid PSO-GSA-TVAC Algorithm for Transmission Line Congestion Management in Deregulated Environment. , 2019, , .		7
1712	Lightweight Evolution Strategies for Nanoswimmers-oriented In Vivo Computation. , 2019, , .		10
1713	Optimal Placement and Sizing of Fault Current Limiters in Power Systems with Uncertainties. , 2019, , .		4

#	ARTICLE	IF	CITATIONS
1714	A Simplified and Efficient Version of Inclined Planes system Optimization Algorithm. , 2019, , .		10
1715	Fixed-time sliding mode control based plant/controller co-design of dual-motor driving system. International Journal of Systems Science, 2019, 50, 1847-1859.	3.7	4
1716	Global Filterâ€‘Wrapper method based on class-dependent correlation for text classification. Engineering Applications of Artificial Intelligence, 2019, 85, 619-633.	4.3	11
1717	GA-based approach for optimal placement and sizing of passive power filters to reduce harmonics in distorted radial distribution systems. Electrical Engineering, 2019, 101, 787-803.	1.2	12
1718	Gravitational search algorithm based optimization technique for enhancing the performance of self excited induction generator. International Journal of Systems Assurance Engineering and Management, 2019, 10, 1082-1090.	1.5	5
1719	A Benchmark of Population-Based Metaheuristic Algorithms for High-Dimensional Multi-Level Image Thresholding. , 2019, , .		11
1720	Energy management for userâ€™s thermal and power needs: A survey. Energy Reports, 2019, 5, 1048-1076.	2.5	30
1721	Supply-Demand-Based Optimization: A Novel Economics-Inspired Algorithm for Global Optimization. IEEE Access, 2019, 7, 73182-73206.	2.6	132
1722	Cost optimized Hybrid Genetic-Gravitational Search Algorithm for load scheduling in Cloud Computing. Applied Soft Computing Journal, 2019, 83, 105627.	4.1	45
1723	A Novel Method for Image Segmentation Based on Simplified Pulse Coupled Neural Network and Gbest Led Gravitational Search Algorithm. IEEE Access, 2019, 7, 21310-21330.	2.6	9
1724	Forecasting of Coal Demand in China Based on Support Vector Machine Optimized by the Improved Gravitational Search Algorithm. Energies, 2019, 12, 2249.	1.6	10
1725	Enhanced Bag-of-Features Method Using Grey Wolf Optimization for Automated Face Retrieval. Communications in Computer and Information Science, 2019, , 519-528.	0.4	2
1726	Rank-Based Gravitational Search Algorithm: a Novel Nature-Inspired Optimization Algorithm for Wireless Sensor Networks Clustering. Cognitive Computation, 2019, 11, 719-734.	3.6	13
1727	Hierarchy Strengthened Grey Wolf Optimizer for Numerical Optimization and Feature Selection. IEEE Access, 2019, 7, 78012-78028.	2.6	54
1728	Impacts of Linnik Flight Usage Patterns on Cuckoo Search for Real-Parameter Global Optimization Problems. IEEE Access, 2019, 7, 83932-83961.	2.6	3
1729	An Improved Optimal Solution for the Directional Overcurrent Relays Coordination Using Hybridized Whale Optimization Algorithm in Complex Power Systems. IEEE Access, 2019, 7, 90418-90435.	2.6	43
1730	Combining bio-inspired meta-heuristics and novelty search for community detection over evolving graph streams. , 2019, , .		4
1731	Adaptive Range Genetic Algorithm: A hybrid optimization approach and its application in the design and economic optimization of Shell-and-Tube Heat Exchanger. Engineering Applications of Artificial Intelligence, 2019, 85, 444-461.	4.3	47

#	ARTICLE	IF	CITATIONS
1732	Revisiting the use of squared magnitude function for the optimal approximation of $(1\hat{\epsilon}^{-}+\hat{\epsilon}^{\pm})$ -order Butterworth filter. AEU - International Journal of Electronics and Communications, 2019, 110, 152826.	1.7	15
1734	On Some Improved Versions of Whale Optimization Algorithm. Arabian Journal for Science and Engineering, 2019, 44, 9653-9691.	1.7	49
1735	Voltage fluctuation smoothing in distribution systems with RES considering degradation and charging plan of EV batteries. Electric Power Systems Research, 2019, 176, 105933.	2.1	24
1736	Henry gas solubility optimization: A novel physics-based algorithm. Future Generation Computer Systems, 2019, 101, 646-667.	4.9	687
1737	Multi-objective differential evolution-based ensemble method for brain tumour diagnosis. IET Image Processing, 2019, 13, 1421-1430.	1.4	3
1738	An Improved Bat Algorithm Based on Lévy Flights and Adjustment Factors. Symmetry, 2019, 11, 925.	1.1	34
1739	A Complex-Valued Encoding Moth-Flame Optimization Algorithm for Global Optimization. Lecture Notes in Computer Science, 2019, , 719-728.	1.0	3
1740	Numerical optimization and feed-forward neural networks training using an improved optimization algorithm: multiple leader salp swarm algorithm. Evolutionary Intelligence, 2021, 14, 1233-1249.	2.3	12
1741	Contract design of direct-load control programs and their optimal management by genetic algorithm. Energy, 2019, 186, 115807.	4.5	14
1742	Water Evaporation Optimization Algorithm Based on Classification and Unbiased Search. Lecture Notes in Computer Science, 2019, , 25-34.	1.0	0
1743	Estimation of component values of filter design using optimization algorithms. Journal of Intelligent and Fuzzy Systems, 2019, 37, 3567-3579.	0.8	3
1744	PMT: Opposition-Based Learning Technique for Enhancing Meta-Heuristic Performance. IEEE Access, 2019, 7, 97653-97672.	2.6	8
1745	Real-time data text mining based on Gravitational Search Algorithm. Expert Systems With Applications, 2019, 137, 117-129.	4.4	12
1746	An Improved Rider Optimization Algorithm for Solving Engineering Optimization Problems. IEEE Access, 2019, 7, 80570-80576.	2.6	20
1747	An Improved Squirrel Search Algorithm for Optimization. Complexity, 2019, 2019, 1-31.	0.9	32
1748	Mechanical Identification of Materials and Structures with Optical Methods and Metaheuristic Optimization. Materials, 2019, 12, 2133.	1.3	6
1749	An Enhanced Lightning Attachment Procedure Optimization Algorithm. Algorithms, 2019, 12, 134.	1.2	6
1750	Water wave optimization for combinatorial optimization: Design strategies and applications. Applied Soft Computing Journal, 2019, 83, 105611.	4.1	38

#	ARTICLE	IF	CITATIONS
1751	An Enhanced Lightning Attachment Procedure Optimization with Quasi-Opposition-Based Learning and Dimensional Search Strategies. Computational Intelligence and Neuroscience, 2019, 2019, 1-24.	1.1	20
1752	A Fusion Clustering Algorithm Based on Global Gravitation Search and Partitioning Around Medoid. , 2019, , .		0
1753	A Review on Metaheuristic Algorithms: Recent Trends, Benchmarking and Applications. , 2019, , .		76
1754	A sustainable data gathering technique based on nature inspired optimization in WSNs. Sustainable Computing: Informatics and Systems, 2019, 24, 100354.	1.6	6
1755	Whale Optimization Algorithm with Chaos Strategy and Weight Factor. Journal of Physics: Conference Series, 2019, 1213, 032004.	0.3	12
1756	Quantum Particle Swarm With Teamwork Evolutionary Strategy for Multi-Objective Optimization on Electro-Optical Platform. IEEE Access, 2019, 7, 41205-41219.	2.6	7
1757	Prediction of Ground Water Table Using NF-GMDH Based Evolutionary Algorithms. KSCE Journal of Civil Engineering, 2019, 23, 5235-5243.	0.9	7
1758	A New Optimization Algorithm Based on Search and Rescue Operations. Mathematical Problems in Engineering, 2019, 2019, 1-23.	0.6	69
1759	Design a novel fractional order controller for smart microgrid using multi-agent concept. SN Applied Sciences, 2019, 1, 1.	1.5	1
1760	Advances on QoS-aware web service selection and composition with nature-inspired computing. CAAI Transactions on Intelligence Technology, 2019, 4, 159-174.	3.4	30
1761	A Simple Novel Mechanism for Company Resilience Measurement based on Life-Resilience Behavior of Chameleons (LRebeaCh). , 2019, , .		1
1762	Multi-Objective Operation of Cascade Hydropower Reservoirs Using TOPSIS and Gravitational Search Algorithm with Opposition Learning and Mutation. Water (Switzerland), 2019, 11, 2040.	1.2	7
1763	Review of Meta-Heuristic Optimization based Artificial Neural Networks and its Applications. Journal of Physics: Conference Series, 2019, 1362, 012074.	0.3	33
1764	Improved Particle Filter Based on the Grey Wolf optimizer. , 2019, , .		0
1765	Terminal crossover and steering-based particle swarm optimization algorithm with disturbance. Applied Soft Computing Journal, 2019, 85, 105841.	4.1	24
1766	QSSA: Quantum Evolutionary Salp Swarm Algorithm for Mechanical Design. IEEE Access, 2019, 7, 145582-145595.	2.6	18
1767	An Improved Gravitational Search Algorithm for Optimization Problems. , 2019, , .		4
1768	An improved Simulated Annealing algorithm based on ancient metallurgy techniques. Applied Soft Computing Journal, 2019, 84, 105761.	4.1	29

#	ARTICLE	IF	CITATIONS
1769	Cuckoo Search Algorithm With Neighborhood Attraction for Numerical Optimization. IEEE Access, 2019, 7, 122261-122274.	2.6	3
1770	A Multiple Diversity-Driven Brain Storm Optimization Algorithm With Adaptive Parameters. IEEE Access, 2019, 7, 126871-126888.	2.6	27
1771	A Gravitational-Double Layer Extreme Learning Machine and its Application in Powerlifting Analysis. IEEE Access, 2019, 7, 143990-143998.	2.6	6
1772	Investigation of Performance of HHO Algorithm in Solving Global Optimization Problems. , 2019, , .		2
1773	Binary Genetic Swarm Optimization: A Combination of GA and PSO for Feature Selection. Journal of Intelligent Systems, 2019, 29, 1598-1610.	1.2	34
1774	Metaheuristic algorithms in optimizing neural network: a comparative study for forest fire susceptibility mapping in Dak Nong, Vietnam. Geomatics, Natural Hazards and Risk, 2019, 10, 136-150.	2.0	33
1775	Removal of computed tomography ring artifacts via radial basis function artificial neural networks. Physics in Medicine and Biology, 2019, 64, 235015.	1.6	11
1776	A holistic review on gravitational search algorithm and its hybridization with other optimization algorithms. , 2019, , .		10
1777	A histogram based fuzzy ensemble technique for feature selection. Evolutionary Intelligence, 2019, 12, 713-724.	2.3	16
1778	An optimizer ensemble algorithm and its application to image registration. Integrated Computer-Aided Engineering, 2019, 26, 311-327.	2.5	10
1779	SVRGSA: a hybrid learning based model for short-term traffic flow forecasting. IET Intelligent Transport Systems, 2019, 13, 1348-1355.	1.7	46
1780	A peek into the swarm. , 2019, , .		0
1781	Optimal location management in LTE networks using evolutionary techniques. International Journal of Communication Systems, 2019, 32, e4100.	1.6	2
1782	On the Fog-Cloud Cooperation: How Fog Computing can address latency concerns of IoT applications. , 2019, , .		17
1783	Feature Selection Using an Improved Gravitational Search Algorithm. IEEE Access, 2019, 7, 114440-114448.	2.6	16
1784	Application of Different Optimization Algorithms for Optimal Sizing of PV/Wind/Diesel/Battery Storage Stand-Alone Hybrid Microgrid. IEEE Access, 2019, 7, 119223-119245.	2.6	137
1785	An Enhanced Version of Black Hole Algorithm via Levy Flight for Optimization and Data Clustering Problems. IEEE Access, 2019, 7, 142085-142096.	2.6	59
1786	An Improved Animal Migration Optimization Algorithm Based on Interactive Learning Behavior for High Dimensional Optimization Problem. , 2019, , .		3

#	ARTICLE	IF	CITATIONS
1787	DTO: Donkey Theorem Optimization. , 2019, , .		11
1788	Bio-Inspired Multiojective Tuning of PID-Controlled Antilock Braking Systems. , 2019, , .		1
1789	Feature Selection Using GSA-BBO Hybridization Algorithm with Chaos. , 2019, , .		0
1790	Static and electromagnetic transient considerations incorporated into shunt capacitor allocation for distribution network using hybrid PSO-GSA algorithm. Electric Power Systems Research, 2019, 177, 106001.	2.1	2
1791	The naked mole-rat algorithm. Neural Computing and Applications, 2019, 31, 8837-8857.	3.2	113
1792	Improved Particle Swarm Optimization for the Mutual Inductance of an Implantable Biomedical Application. , 2019, , .		1
1793	A survey on new generation metaheuristic algorithms. Computers and Industrial Engineering, 2019, 137, 106040.	3.4	510
1794	A novel statistical performance evaluation of most modern optimization-based global MPPT techniques for partially shaded PV system. Renewable and Sustainable Energy Reviews, 2019, 115, 109372.	8.2	118
1795	Ludo game-based metaheuristics for global and engineering optimization. Applied Soft Computing Journal, 2019, 84, 105723.	4.1	34
1796	A Fusion Algorithm of Gravitational Search and Tabu Search. , 2019, , .		1
1797	An improved gravitational search algorithm for global optimization. Journal of Intelligent and Fuzzy Systems, 2019, 37, 5039-5047.	0.8	4
1798	Hybrid chemometric approach for estimating the heat of detonation of aromatic energetic compounds. Heliyon, 2019, 5, e02035.	1.4	9
1799	Adaptive Gravitational Search Algorithm-based Compensator for Control Valve Stiction. , 2019, , .		0
1800	A Review of Computational Methods for Clustering Genes with Similar Biological Functions. Processes, 2019, 7, 550.	1.3	10
1801	Optimal bidding strategy with the inclusion of wind power supplier in an emerging power market. IET Generation, Transmission and Distribution, 2019, 13, 1914-1922.	1.4	22
1802	Combining density peaks clustering and gravitational search method to enhance data clustering. Engineering Applications of Artificial Intelligence, 2019, 85, 865-873.	4.3	15
1803	Simplex quantum-behaved particle swarm optimization algorithm with application to ecological operation of cascade hydropower reservoirs. Applied Soft Computing Journal, 2019, 84, 105715.	4.1	41
1804	EST-TSA: An effective search tendency based to tree seed algorithm. Physica A: Statistical Mechanics and Its Applications, 2019, 534, 122323.	1.2	14

#	ARTICLE	IF	CITATIONS
1805	Algorithm Based on Population With a Flexible Search Mechanism. IEEE Access, 2019, 7, 132253-132270.	2.6	5
1806	Enhanced grey wolf optimizer with a model for dynamically estimating the location of the prey. Applied Soft Computing Journal, 2019, 77, 225-235.	4.1	52
1807	A novel modified gravitational search algorithm for the real world optimization problem. International Journal of Machine Learning and Cybernetics, 2019, 10, 2993-3002.	2.3	7
1808	Enhanced crow search algorithm for optimum design of structures. Applied Soft Computing Journal, 2019, 77, 274-289.	4.1	45
1809	Insulation condition assessment of high-voltage rotating machines using hybrid techniques. IET Generation, Transmission and Distribution, 2019, 13, 171-180.	1.4	8
1810	Optimization of sensor placement for structural health monitoring: a review. Structural Health Monitoring, 2019, 18, 963-988.	4.3	209
1811	A new metaheuristic optimization method: the algorithm of the innovative gunner (AIG). Engineering Optimization, 2019, 51, 2049-2068.	1.5	43
1812	Controlled showering optimization algorithm: an intelligent tool for decision making in global optimization. Computational and Mathematical Organization Theory, 2019, 25, 132-164.	1.5	8
1813	Efficient clustering in collaborative filtering recommender system: Hybrid method based on genetic algorithm and gravitational emulation local search algorithm. Genomics, 2019, 111, 1902-1912.	1.3	61
1814	Monograph on desilting basins sizes estimation for hydropower projects. International Journal of Green Energy, 2019, 16, 317-332.	2.1	4
1815	Support Vector Regression Ensemble for Effective Modeling of Magnetic Ordering Temperature of Doped Manganite in Magnetic Refrigeration. Journal of Low Temperature Physics, 2019, 195, 179-201.	0.6	7
1816	Two-Step Artificial Bee Colony Algorithm Enhancement for QoS-Aware Web Service Selection Problem. IEEE Access, 2019, 7, 21787-21794.	2.6	30
1817	Histopathological Image Classification Using Efficient Bag-of-Features and Whale Optimization Algorithm. SSRN Electronic Journal, 0, , .	0.4	4
1818	A Novel Hybrid Meta-Heuristic Algorithm Based on the Cross-Entropy Method and Firefly Algorithm for Global Optimization. Entropy, 2019, 21, 494.	1.1	17
1819	Riesz fractional derivative Elite-guided sine cosine algorithm. Applied Soft Computing Journal, 2019, 81, 105481.	4.1	20
1820	Team Arrangement Heuristic Algorithm (TAHA): Theory and application. Mathematics and Computers in Simulation, 2019, 166, 155-176.	2.4	2
1821	Power electronics contribution to renewable energy conversion addressing emission reduction: Applications, issues, and recommendations. Applied Energy, 2019, 251, 113404.	5.1	109
1822	Efficient boosted grey wolf optimizers for global search and kernel extreme learning machine training. Applied Soft Computing Journal, 2019, 81, 105521.	4.1	113

#	ARTICLE	IF	CITATIONS
1823	Deer Hunting Optimization Algorithm: A New Nature-Inspired Meta-heuristic Paradigm. Computer Journal, 0, , .	1.5	169
1824	A Multi-Objective Optimization Dispatch Method for Microgrid Energy Management Considering the Power Loss of Converters. Energies, 2019, 12, 2160.	1.6	27
1825	Gravitational search algorithm based data scheduling for peer to peer video on demand system. Multimedia Tools and Applications, 2019, 78, 27291-27307.	2.6	1
1826	Memetic Particle Gravitation Optimization Algorithm for Solving Clustering Problems. IEEE Access, 2019, 7, 80950-80968.	2.6	15
1827	JayaX: Jaya algorithm with xor operator for binary optimization. Applied Soft Computing Journal, 2019, 82, 105576.	4.1	74
1828	A review on meta-heuristics methods for estimating parameters of solar cells. Journal of Power Sources, 2019, 435, 126683.	4.0	138
1829	Optimal pipe dimensioning in water distribution networks using Gravitational Search Algorithm. ISH Journal of Hydraulic Engineering, 2021, 27, 242-255.	1.1	7
1830	Nuclear Reaction Optimization: A Novel and Powerful Physics-Based Algorithm for Global Optimization. IEEE Access, 2019, 7, 66084-66109.	2.6	87
1831	A Modified Dragonfly Optimization Algorithm for Single- and Multiobjective Problems Using Brownian Motion. Computational Intelligence and Neuroscience, 2019, 2019, 1-17.	1.1	45
1832	Coastal Wetland Mapping with Sentinel-2 MSI Imagery Based on Gravitational Optimized Multilayer Perceptron and Morphological Attribute Profiles. Remote Sensing, 2019, 11, 952.	1.8	18
1833	Introduction to Meta-heuristic Optimization Algorithms. Power Systems, 2019, , 3-20.	0.3	4
1834	Dynamic Parameter Adaptation Based on Using Interval Type-2 Fuzzy Logic in Bio-inspired Optimization Methods. Advances in Intelligent Systems and Computing, 2019, , 1-12.	0.5	0
1835	Optimal Transmit Antenna Selection Using Improved GSA in Massive MIMO Technology. Wireless Personal Communications, 2019, 109, 1217-1235.	1.8	7
1836	Bio-inspired Optimization of Type-2 Fuzzy Controllers in Autonomous Mobile Robot Navigation. Studies in Systems, Decision and Control, 2019, , 187-200.	0.8	3
1837	A QSAR model for predicting antidiabetic activity of dipeptidyl peptidase-IV inhibitors by enhanced binary gravitational search algorithm. SAR and QSAR in Environmental Research, 2019, 30, 403-416.	1.0	8
1838	An Improved Electromagnetic Field Optimization for the Global Optimization Problems. Computational Intelligence and Neuroscience, 2019, 2019, 1-20.	1.1	6
1839	Optimal design of planar terahertz Yagi-Uda antenna using adaptive chaos optimization algorithm. Optik, 2019, 191, 146-151.	1.4	5
1840	Modeling asphaltene precipitation during natural depletion of reservoirs and evaluating screening criteria for stability of crude oils. Journal of Petroleum Science and Engineering, 2019, 181, 106127.	2.1	13

#	ARTICLE	IF	CITATIONS
1841	Performance Analysis of Classical Controllers Tuned Using Heuristic Approaches for Frequency Regulation. Lecture Notes in Electrical Engineering, 2019, , 457-465.	0.3	1
1842	Gravitational search assisted algorithm for TCSC placement for congestion control in deregulated power system. Electric Power Systems Research, 2019, 174, 105874.	2.1	27
1843	A novel shearer cutting pattern recognition model with chaotic gravitational search optimization. Measurement: Journal of the International Measurement Confederation, 2019, 144, 225-233.	2.5	11
1844	Interactive design and multidisciplinary optimization of geostationary communication satellite. International Journal on Interactive Design and Manufacturing, 2019, 13, 1519-1540.	1.3	12
1845	Evaluation of fuzzy based HS and GSA on reloading cycle length optimization of PWR nuclear power plant. Annals of Nuclear Energy, 2019, 134, 1-10.	0.9	17
1846	Cloud model based sine cosine algorithm for solving optimization problems. Evolutionary Intelligence, 2019, 12, 503-514.	2.3	9
1847	Intrusion Detection Systems: A Cross-Domain Overview. IEEE Communications Surveys and Tutorials, 2019, 21, 3639-3681.	24.8	61
1848	A New Strategy Based on GSABAT to Solve Single Objective Optimization Problem. International Journal of Swarm Intelligence Research, 2019, 10, 1-22.	0.5	4
1849	A Distributed Brain Storm Optimization for Numerical Optimization and Graph Planarization. IEEE Access, 2019, 7, 39770-39781.	2.6	3
1850	An Improved Squirrel Search Algorithm for Global Function Optimization. Algorithms, 2019, 12, 80.	1.2	28
1851	Mapping of Coastal Cities Using Optimized Spectralâ€“Spatial Features Based Multi-Scale Superpixel Classification. Remote Sensing, 2019, 11, 998.	1.8	3
1852	A New Hybrid Approach for Short-Term Electric Load Forecasting Applying Support Vector Machine with Ensemble Empirical Mode Decomposition and Whale Optimization. Energies, 2019, 12, 1520.	1.6	18
1853	Solving the open vehicle routing problem with capacity and distance constraints with a biased random key genetic algorithm. Computers and Industrial Engineering, 2019, 133, 207-219.	3.4	67
1854	Strategic management of stochastic power losses in smart transmission grids. International Transactions on Electrical Energy Systems, 2019, 29, e12032.	1.2	5
1855	Gravitational search algorithm based novel workflow scheduling for heterogeneous computing systems. Simulation Modelling Practice and Theory, 2019, 96, 101932.	2.2	17
1856	Stock Price Prediction Using Fuzzy Time-Series Population Based Gravity Search Algorithm. International Journal of Software Innovation, 2019, 7, 50-64.	0.3	8
1857	Explosion gravitation field algorithm with dust sampling for unconstrained optimization. Applied Soft Computing Journal, 2019, 81, 105500.	4.1	3
1858	An evolutionary gravitational search-based feature selection. Information Sciences, 2019, 497, 219-239.	4.0	175

#	ARTICLE	IF	CITATIONS
1859	A Novel Jaya-BAT Algorithm Based Power Consumption Minimization in Cognitive Radio Network. <i>Wireless Personal Communications</i> , 2019, 108, 2059-2075.	1.8	6
1860	New Approach for Sediment Yield Forecasting with a Two-Phase Feedforward Neuron Network-Particle Swarm Optimization Model Integrated with the Gravitational Search Algorithm. <i>Water Resources Management</i> , 2019, 33, 2335-2356.	1.9	38
1861	Birds foraging search: a novel population-based algorithm for global optimization. <i>Memetic Computing</i> , 2019, 11, 221-250.	2.7	12
1862	Laplacian whale optimization algorithm. <i>International Journal of Systems Assurance Engineering and Management</i> , 2019, 10, 713-730.	1.5	14
1863	Nature-Inspired Algorithms. <i>SpringerBriefs in Optimization</i> , 2019, , 21-40.	0.3	3
1864	A Quantum Particle Swarm Optimization Algorithm with Teamwork Evolutionary Strategy. <i>Mathematical Problems in Engineering</i> , 2019, 2019, 1-12.	0.6	10
1865	Association rule mining using chaotic gravitational search algorithm for discovering relations between manufacturing system capabilities and product features. <i>Concurrent Engineering Research and Applications</i> , 2019, 27, 213-232.	2.0	9
1866	Slice interpolation of medical images using enhanced fuzzy radial basis function neural networks. <i>Computers in Biology and Medicine</i> , 2019, 110, 66-78.	3.9	6
1867	A Chaotic Electromagnetic Field Optimization Algorithm Based on Fuzzy Entropy for Multilevel Thresholding Color Image Segmentation. <i>Entropy</i> , 2019, 21, 398.	1.1	35
1868	Spherical evolution for solving continuous optimization problems. <i>Applied Soft Computing Journal</i> , 2019, 81, 105499.	4.1	64
1869	Gravitational Search Algorithm for Microseismic Source Location in Tunneling: Performance Analysis and Engineering Case Study. <i>Rock Mechanics and Rock Engineering</i> , 2019, 52, 3999-4016.	2.6	14
1870	A Solution to the Optimal Power Flow Problem Considering WT and PV Generation. <i>IEEE Access</i> , 2019, 7, 46763-46772.	2.6	94
1871	A chaotic salp swarm algorithm based on quadratic integrate and fire neural model for function optimization. <i>Progress in Artificial Intelligence</i> , 2019, 8, 343-358.	1.5	17
1872	Probabilistic Hosting Capacity Enhancement in Non-Sinusoidal Power Distribution Systems Using a Hybrid PSO-GSA Optimization Algorithm. <i>Energies</i> , 2019, 12, 1018.	1.6	50
1873	Improving backtracking search algorithm with variable search strategies for continuous optimization. <i>Applied Soft Computing Journal</i> , 2019, 80, 567-578.	4.1	15
1874	A comprehensive study of chaos embedded bridging mechanisms and crossover operators for grasshopper optimisation algorithm. <i>Expert Systems With Applications</i> , 2019, 132, 166-188.	4.4	51
1875	Bio-inspired computation: Where we stand and what's next. <i>Swarm and Evolutionary Computation</i> , 2019, 48, 220-250.	4.5	430
1876	An Inter Type-2 FCR Algorithm Based Tâ€™S Fuzzy Model for Short-Term Wind Power Interval Prediction. <i>IEEE Transactions on Industrial Informatics</i> , 2019, 15, 4934-4943.	7.2	42

#	ARTICLE	IF	CITATIONS
1877	An opposition theory enabled moth flame optimizer for strategic bidding in uniform spot energy market. <i>Engineering Science and Technology, an International Journal</i> , 2019, 22, 1047-1067.	2.0	23
1878	Improved antlion optimization algorithm via tournament selection and its application to parallel machine scheduling. <i>Computers and Industrial Engineering</i> , 2019, 132, 166-186.	3.4	37
1879	Nature-inspired algorithms for the optimal tuning of fuzzy controllers. , 2019, , 55-80.		0
1880	Adaptive nature-inspired algorithms for the optimal tuning of fuzzy controllers. , 2019, , 81-101.		0
1881	Modified grasshopper optimization framework for optimal power flow solution. <i>Electrical Engineering</i> , 2019, 101, 121-148.	1.2	83
1882	Hybrid particle swarm optimization with spiral-shaped mechanism for feature selection. <i>Expert Systems With Applications</i> , 2019, 128, 140-156.	4.4	129
1883	Comprehensive review on global maximum power point tracking techniques for PV systems subjected to partial shading conditions. <i>Solar Energy</i> , 2019, 183, 476-500.	2.9	100
1884	Testing evolutionary algorithms for optimization of water distribution networks. <i>Canadian Journal of Civil Engineering</i> , 2019, 46, 391-402.	0.7	6
1885	A hybrid evolutionary approach based on the invasive weed optimization and estimation distribution algorithms. <i>Soft Computing</i> , 2019, 23, 13627-13668.	2.1	4
1886	An opposition-based social spider optimization for feature selection. <i>Soft Computing</i> , 2019, 23, 13547-13567.	2.1	41
1887	Opposition-based multi-objective whale optimization algorithm with global grid ranking. <i>Neurocomputing</i> , 2019, 341, 41-59.	3.5	51
1888	A new meta-heuristic optimizer: Pathfinder algorithm. <i>Applied Soft Computing Journal</i> , 2019, 78, 545-568.	4.1	235
1889	Homogeneity Distance Classification Algorithm (HDCA): A Novel Algorithm for Satellite Image Classification. <i>Remote Sensing</i> , 2019, 11, 546.	1.8	11
1890	Enhanced salp swarm algorithm: Application to variable speed wind generators. <i>Engineering Applications of Artificial Intelligence</i> , 2019, 80, 82-96.	4.3	153
1891	Extreme Learning Machine Model for State-of-Charge Estimation of Lithium-Ion Battery Using Gravitational Search Algorithm. <i>IEEE Transactions on Industry Applications</i> , 2019, 55, 4225-4234.	3.3	126
1892	Modeling of bidding strategies in a competitive electricity market: A hybrid approach. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2019, 32, e2594.	1.2	4
1893	Application of improved invasive weed optimization technique for optimally setting directional overcurrent relays in power systems. <i>Applied Soft Computing Journal</i> , 2019, 79, 1-13.	4.1	36
1894	A Coral Reefs Optimization algorithm with substrate layer for robust Wi-Fi channel assignment. <i>Soft Computing</i> , 2019, 23, 12621-12640.	2.1	20

#	ARTICLE	IF	CITATIONS
1895	Sheep Identification Using a Hybrid Deep Learning and Bayesian Optimization Approach. IEEE Access, 2019, 7, 31681-31687.	2.6	35
1896	A multiple feature construction method based on gravitational search algorithm. Expert Systems With Applications, 2019, 127, 199-209.	4.4	14
1897	An Improved Hybrid Method Combining Gravitational Search Algorithm With Dynamic Multi Swarm Particle Swarm Optimization. IEEE Access, 2019, 7, 50388-50399.	2.6	63
1898	Whale Optimization Algorithm Based on Lamarckian Learning for Global Optimization Problems. IEEE Access, 2019, 7, 36642-36666.	2.6	40
1899	A novel shot boundary detection system using hybrid optimization technique. Applied Intelligence, 2019, 49, 3207-3220.	3.3	20
1900	New fruit fly optimization algorithm with joint search strategies for function optimization problems. Knowledge-Based Systems, 2019, 176, 77-96.	4.0	41
1901	Dew Point Temperature Estimation: Application of Artificial Intelligence Model Integrated with Nature-Inspired Optimization Algorithms. Water (Switzerland), 2019, 11, 742.	1.2	70
1902	Summarization of legal judgments using gravitational search algorithm. Neural Computing and Applications, 2019, 31, 8631-8639.	3.2	16
1903	A discrete gravitational search algorithm for the blocking flow shop problem with total flow time minimization. Applied Intelligence, 2019, 49, 3362-3382.	3.3	13
1904	An augmented animal migration optimization algorithm using worst solution elimination approach in the backdrop of differential evolution. Evolutionary Intelligence, 2019, 12, 273-303.	2.3	4
1905	STOA: A bio-inspired based optimization algorithm for industrial engineering problems. Engineering Applications of Artificial Intelligence, 2019, 82, 148-174.	4.3	349
1906	Fuzzy classifier design for network intrusion detection using the gravitational search algorithm. Journal of Physics: Conference Series, 2019, 1145, 012008.	0.3	0
1907	Design and Development of Soft Computing Toolbox Using Metaheuristics. SSRN Electronic Journal, 2019, , .	0.4	0
1908	Swarm intelligence techniques in recommender systems - A review of recent research. Swarm and Evolutionary Computation, 2019, 48, 201-219.	4.5	39
1909	Exact and heuristic methods for optimizing lock-quay system in inland waterway. European Journal of Operational Research, 2019, 277, 740-755.	3.5	24
1910	AEFA: Artificial electric field algorithm for global optimization. Swarm and Evolutionary Computation, 2019, 48, 93-108.	4.5	233
1911	An Efficient Grey Wolf Optimizer with Opposition-Based Learning and Chaotic Local Search for Integer and Mixed-Integer Optimization Problems. Arabian Journal for Science and Engineering, 2019, 44, 7277-7296.	1.7	22
1912	A Memetic Chaotic Gravitational Search Algorithm for unconstrained global optimization problems. Applied Soft Computing Journal, 2019, 79, 14-29.	4.1	45

#	ARTICLE	IF	CITATIONS
1913	Optimal power flow using Moth Swarm Algorithm with Gravitational Search Algorithm considering wind power. <i>Future Generation Computer Systems</i> , 2019, 98, 708-715.	4.9	57
1914	A Hybrid Crow Search Algorithm for Solving Permutation Flow Shop Scheduling Problems. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1353.	1.3	18
1915	Hybrid Multiverse Optimization Algorithm With Gravitational Search Algorithm for Multithreshold Color Image Segmentation. <i>IEEE Access</i> , 2019, 7, 44903-44927.	2.6	17
1916	Automated face retrieval using bag-of-features and sigmoidal grey wolf optimization. <i>Evolutionary Intelligence</i> , 2019, 14, 1201.	2.3	5
1917	A Dynamic Traffic Assignment Model for the Sustainability of Pavement Performance. <i>Sustainability</i> , 2019, 11, 170.	1.6	15
1918	A hierarchical gravitational search algorithm with an effective gravitational constant. <i>Swarm and Evolutionary Computation</i> , 2019, 46, 118-139.	4.5	98
1919	A Novel Hybrid Model Based on TVIW-PSO-GSA Algorithm and Support Vector Machine for Classification Problems. <i>IEEE Access</i> , 2019, 7, 27789-27801.	2.6	36
1920	Analysis of Distribution System with D-STATCOM by Gravitational Search Algorithm (GSA). <i>Journal of the Institution of Engineers (India): Series B</i> , 2019, 100, 207-215.	1.3	20
1921	Adaptive comprehensive learning particle swarm optimization with cooperative archive. <i>Applied Soft Computing Journal</i> , 2019, 77, 533-546.	4.1	43
1922	A Hybrid Optimization GNA Algorithm for the Quadratic Assignment Problem Solving. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , 2019, , 455-464.	0.5	1
1923	A review on the application of fuzzy transform in data and image compression. <i>Soft Computing</i> , 2019, 23, 12641-12653.	2.1	18
1924	Heuristic optimization of electrical energy systems: Refined metrics to compare the solutions. <i>Sustainable Energy, Grids and Networks</i> , 2019, 17, 100197.	2.3	10
1925	The Sailfish Optimizer: A novel nature-inspired metaheuristic algorithm for solving constrained engineering optimization problems. <i>Engineering Applications of Artificial Intelligence</i> , 2019, 80, 20-34.	4.3	389
1926	PSOG: Enhanced particle swarm optimization by a unit vector of first and second order gradient directions. <i>Swarm and Evolutionary Computation</i> , 2019, 46, 28-51.	4.5	26
1927	A non-linear estimation and model predictive control algorithm based on ant colony optimization. <i>Transactions of the Institute of Measurement and Control</i> , 2019, 41, 1123-1138.	1.1	14
1928	Harris hawks optimization: Algorithm and applications. <i>Future Generation Computer Systems</i> , 2019, 97, 849-872.	4.9	3,345
1929	Toward a Robust Multi-Objective Metaheuristic for Solving the Relay Node Placement Problem in Wireless Sensor Networks. <i>Sensors</i> , 2019, 19, 677.	2.1	15
1930	A hybrid biogeography-based optimization with variable neighborhood search mechanism for no-wait flow shop scheduling problem. <i>Expert Systems With Applications</i> , 2019, 126, 321-339.	4.4	68

#	ARTICLE	IF	CITATIONS
1931	MIMR-DGSA: Unsupervised hyperspectral band selection based on information theory and a modified discrete gravitational search algorithm. <i>Information Fusion</i> , 2019, 51, 189-200.	11.7	59
1932	An Enhanced Brain Storm Sine Cosine Algorithm for Global Optimization Problems. <i>IEEE Access</i> , 2019, 7, 28211-28229.	2.6	20
1934	The optimal design and analysis of wideband second-order microwave integrator. <i>International Journal of Microwave and Wireless Technologies</i> , 2019, 11, 227-236.	1.5	3
1935	Multi-objective Optimization of Vehicle Speed Control using Gravitational Search Algorithm for Electro-Mechanical Continuously Variable Transmission. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 530, 012031.	0.3	1
1936	Gravitation Search Algorithm with Two Masses for Constrained Optimization. , 2019, , .		0
1937	An improved quantum-behaved gravitational search algorithm for high-dimensional multi-modal optimization. , 2019, , .		1
1938	Application of the Gravitational Search Algorithm for Constructing Fuzzy Classifiers of Imbalanced Data. <i>Symmetry</i> , 2019, 11, 1458.	1.1	5
1939	Advanced Method for Optimal Allocation of FACTS Devices Using Line Stability Index Combined with Meta-Heuristic Optimization Techniques. , 2019, , .		3
1940	Optimal Power Flow Using Artificial Bee Colony, Wind Driven Optimization and Gravitational Search Algorithms. , 2019, , .		4
1941	Application of Gravitational Search Algorithm to Detect Insulin Resistance in Intravenous Glucose Tolerance Test. , 2019, , .		0
1942	A Fuzzy Multi-objective Operation Strategy of Energy Storage System based on Gravity Search Algorithm. , 2019, , .		0
1943	Power Monitoring System in Solar Power Plant Using LabVIEW. , 2019, , .		0
1944	Switching Between Swarm Optimization Algorithms During a Run: An Empirical Study. , 2019, , .		0
1945	Introductory Chapter: Swarm Intelligence - Recent Advances, New Perspectives, and Applications. , 0, , .		1
1946	Accurate Parameter Estimation of a Hydro-Turbine Regulation System Using Adaptive Fuzzy Particle Swarm Optimization. <i>Energies</i> , 2019, 12, 3903.	1.6	14
1947	Solving Method for Multi-level Programming Problems Based on Gravity Search Algorithm. , 2019, , .		1
1948	Robust Evolutionary Technique Based On Gravitational Search Algorithm for Dynamically Tuning Controller Parameters of SVC for Transient Stability Enhancement. , 2019, , .		1
1949	Forward Clearing of Energy Market for Wind Incorporated Power System. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
1950	Double Sided Bidding Strategy in a Day-Ahead Electricity Market. , 2019, , .		0
1951	Gravitational Search and Sine Cosine Algorithms to Enhance the VSC-HVDC System Performance Under Different Disturbances. , 2019, , .		1
1952	Meta-Heuristic Optimization Based Two-stage Residential Load Pattern Clustering Approach Considering Intra-cluster Compactness and Inter-cluster Separation. , 2019, , .		3
1953	Improved Genetic Algorithm for Solving Flexible Job Shop Scheduling Problem with Machine Deterioration Effect. , 2019, , .		1
1954	Implementation of Modified Gravitational Search Algorithm for Solar Panel Parameters Extraction. , 2019, , .		0
1955	A Comprehensive Survey on Solving Clustering and Classification Problems Using Gravitational Search Algorithm. , 2019, , .		5
1956	Investigation of non-“conventional methods for combined economic emission dispatch problem. Journal of Physics: Conference Series, 2019, 1341, 052013.	0.3	1
1957	Load frequency control of two interconnected area hybrid microgrid system using various optimization for the robust controller. , 2019, , .		6
1958	A High-Performance Self-Learning Antelopes Migration Algorithm (SAMA) for Global Optimization. , 2019, , .		1
1959	Hybrid Particle Swarm Optimization and Gravitational Search Algorithm for Optimal Sizing of Hybrid Renewable Energy Systems. , 2019, , .		4
1960	An Improved Firefly Algorithm Hybridized with Extremal optimization for Parameter Identification of Photovoltaic Models. , 2019, , .		0
1961	Scope of Artificial Intelligence for Interconnected Multi Area Power System: A Literature Review. , 2019, , .		0
1962	Experimental verification of guidance and search strategy of nanobots under magnetic field control in grid network. , 2019, , .		0
1963	Model Free Approach to Adaptive Parameters Optimisation using Adaptive Decaying Merit Score (ADMS): A Preliminary Study. , 2019, , .		0
1964	Choatic GSA based Design of Multivariable Centralised Fractional “ Order PID Controller for TRMS. , 2019, , .		1
1965	An Adaptive Phasor Particle Swarm Optimization to Solve Economic Load Dispatch and Combined Emission Economic Load Dispatch Problem. , 2019, , .		3
1966	Scope of Meta-Heuristics Optimizer for Automatic Generation Control of Realistic Power System. , 2019, , .		1
1967	An Improved Lightning Attachment Procedure Optimization Algorithm for Function Optimization. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
1968	Algorithmic Analysis on Hybrid-Intelligent Deregulated Electricity Market. , 2019, , .		2
1969	Capacitor Banks Placement Optimization Improvement Using the Sperm Whale Algorithm. , 2019, , .		0
1970	Day-ahead Market Clearing of Energy and Reserve for Wind Integrated Deregulated System. , 2019, , .		1
1971	Fault diagnosis of sucker rod pumping system using modified extreme learning machine assisted by gravitational search algorithm. , 2019, , .		5
1972	Wildebeest herd optimization: A new global optimization algorithm inspired by wildebeest herding behaviour. Journal of Intelligent and Fuzzy Systems, 2019, 37, 8063-8076.	0.8	21
1973	Tuning of Control Parameters of Grey Wolf Optimizer using Fuzzy Inference. IEEE Latin America Transactions, 2019, 17, 1191-1198.	1.2	7
1974	State-of-the-Art Research on Motion Control of Maritime Autonomous Surface Ships. Journal of Marine Science and Engineering, 2019, 7, 438.	1.2	50
1975	XOR Binary Gravitational Search Algorithm. , 2019, , .		2
1976	Resource Scheduling in Cloud Computing Based on a Hybridized Whale Optimization Algorithm. Applied Sciences (Switzerland), 2019, 9, 4893.	1.3	78
1977	Optimal PMUs Placement Using Hybrid PSO-GSA Algorithm. , 2019, , .		10
1978	Combined Economic and Emission Dispatch Problem of Wind-Thermal Power System Using Gravitational Particle Swarm Optimization Algorithm. Mathematical Problems in Engineering, 2019, 2019, 1-19.	0.6	25
1979	Public assistance intensification of wind-integrated restructured endowment system using thyristor-controlled series compensator peerless location and gauging using the hybrid Genetic Algorithm-Gravitational Search Algorithm. International Journal of Electrical Engineering and Education, 0. , 002072091989420.	0.4	0
1980	A Global-Best Guided Human Mental Search Algorithm with Random Clustering Strategy. , 2019, , .		8
1981	An IGS Algorithm Applied to DNA Sequence Design. , 2019, , .		0
1982	Gaussian Quantum Bat Algorithm with Direction of Mean Best Position for Numerical Function Optimization. Computational Intelligence and Neuroscience, 2019, 2019, 1-18.	1.1	7
1983	An Improved Flower Pollination Optimizer Algorithm for Multilevel Image Thresholding. IEEE Access, 2019, 7, 165571-165582.	2.6	19
1984	Advanced Gravitational Search Algorithm with Modified Exploitation Strategy. , 2019, , .		4
1985	Differential Evolution Quantum Particle Swarm Optimization for Solving Job-shop Scheduling Problem. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
1986	Gravitational Search Algorithm: A State-of-the-Art Review. <i>Advances in Intelligent Systems and Computing</i> , 2019, , 27-37.	0.5	7
1987	Flow Regime Algorithm (FRA): a physics-based meta-heuristics algorithm. <i>Knowledge and Information Systems</i> , 2019, 60, 1001-1038.	2.1	36
1988	Optimal economic-driven planning of multiple DG and capacitor in distribution network considering different compensation coefficients in feeder's failure rate evaluation. <i>Engineering Science and Technology, an International Journal</i> , 2019, 22, 67-77.	2.0	19
1989	Approximate logic neuron model trained by states of matter search algorithm. <i>Knowledge-Based Systems</i> , 2019, 163, 120-130.	4.0	35
1990	Atom search optimization and its application to solve a hydrogeologic parameter estimation problem. <i>Knowledge-Based Systems</i> , 2019, 163, 283-304.	4.0	417
1991	Performance of Sine-Cosine Algorithm on Large-Scale Optimization Problems. <i>Asset Analytics</i> , 2019, , 139-154.	0.4	4
1992	Convergence of Gravitational Search Algorithm on Linear and Quadratic Functions. <i>Asset Analytics</i> , 2019, , 31-39.	0.4	3
1993	Future search algorithm for optimization. <i>Evolutionary Intelligence</i> , 2019, 12, 21-31.	2.3	46
1994	Improved fireworks algorithm with information exchange for function optimization. <i>Knowledge-Based Systems</i> , 2019, 163, 82-90.	4.0	27
1995	A clustering algorithm applied to the binarization of Swarm intelligence continuous metaheuristics. <i>Swarm and Evolutionary Computation</i> , 2019, 44, 646-664.	4.5	56
1996	Application of improved ANFIS approaches to estimate bearing capacity of piles. <i>Soft Computing</i> , 2019, 23, 9537-9549.	2.1	30
1997	An advanced onlooker-ranking-based adaptive differential evolution to extract the parameters of solar cell models. <i>Renewable Energy</i> , 2019, 134, 1129-1147.	4.3	45
1998	Combining Migration and Differential Evolution Strategies for Optimum Design of Truss Structures with Dynamic Constraints. <i>Iranian Journal of Science and Technology - Transactions of Civil Engineering</i> , 2019, 43, 289-312.	1.0	11
1999	A Survey on Nature-Inspired Optimization Algorithms and Their Application in Image Enhancement Domain. <i>Archives of Computational Methods in Engineering</i> , 2019, 26, 1607-1638.	6.0	75
2000	Review on the optimal placement, sizing and control of an energy storage system in the distribution network. <i>Journal of Energy Storage</i> , 2019, 21, 489-504.	3.9	182
2001	An automatic nuclei segmentation method using intelligent gravitational search algorithm based superpixel clustering. <i>Swarm and Evolutionary Computation</i> , 2019, 45, 15-32.	4.5	49
2002	Hybrid Intelligent Modelling of the Viscoelastic Moduli of Coal Fly Ash Based Polymer Gel System for Water Shutoff Treatment in Oil and Gas Wells. <i>Canadian Journal of Chemical Engineering</i> , 2019, 97, 2969-2978.	0.9	20
2003	Classification of Histopathological Images Through Bag-of-Visual-Words and Gravitational Search Algorithm. <i>Advances in Intelligent Systems and Computing</i> , 2019, , 231-241.	0.5	24

#	ARTICLE	IF	CITATIONS
2004	Model-based test suite generation for graph transformation system using model simulation and search-based techniques. Information and Software Technology, 2019, 108, 1-29.	3.0	13
2005	Interactive design of space manufacturing systems, optimality and opportunity. International Journal on Interactive Design and Manufacturing, 2019, 13, 773-796.	1.3	2
2006	Enhanced speed control of a DC servo system using PI+DF controller tuned by stochastic fractal search technique. Journal of the Franklin Institute, 2019, 356, 1333-1359.	1.9	19
2007	Recurrent wavelet-based Elman neural network with modified gravitational search algorithm control for integrated offshore wind and wave power generation systems. Energy, 2019, 170, 40-52.	4.5	27
2008	Improved sine cosine algorithm with crossover scheme for global optimization. Knowledge-Based Systems, 2019, 165, 374-406.	4.0	147
2009	Controller parameter optimization for a 13-level cascaded H-bridge medium voltage static synchronous compensator. International Transactions on Electrical Energy Systems, 2019, 29, e2805.	1.2	1
2010	Reinforced cuckoo search algorithm-based multimodal optimization. Applied Intelligence, 2019, 49, 2059-2083.	3.3	52
2011	Benchmarking based search framework. Cluster Computing, 2019, 22, 929-951.	3.5	0
2012	A comprehensive study of phase based optimization algorithm on global optimization problems and its applications. Applied Intelligence, 2019, 49, 1355-1375.	3.3	2
2013	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll" id="d1e10265" altimg="si80.gif" \rangle \langle \text{mml:mi} \rangle I^2 \langle / \text{mml:mi} \rangle \langle / \text{mml:math} \rangle$ Chaotic map enabled Grey Wolf Optimizer. Applied Soft Computing Journal, 2019, 75, 84-105.	4.1	82
2014	An improved self-adaptive grey wolf optimizer for the daily optimal operation of cascade pumping stations. Applied Soft Computing Journal, 2019, 75, 473-493.	4.1	22
2015	River flow prediction using hybrid PSO-GSA algorithm based on feed-forward neural network. Soft Computing, 2019, 23, 10429-10438.	2.1	59
2016	Grey wolf optimization algorithm for facial image super-resolution. Applied Intelligence, 2019, 49, 1324-1338.	3.3	31
2017	Stability and optimisation of direct drive permanent magnet synchronous generator based tidal turbine. Vacuum, 2019, 166, 341-350.	1.6	6
2018	GSP: an automatic programming technique with gravitational search algorithm. Applied Intelligence, 2019, 49, 1502-1516.	3.3	13
2019	Nature-inspired approach: An enhanced moth swarm algorithm for global optimization. Mathematics and Computers in Simulation, 2019, 159, 57-92.	2.4	24
2020	Optimal generation scheduling and dispatch of thermal generating units considering impact of wind penetration using hGWO-RES algorithm. Applied Intelligence, 2019, 49, 1517-1547.	3.3	26
2021	Fatigue life prediction for vibration isolation rubber based on parameter-optimized support vector machine model. Fatigue and Fracture of Engineering Materials and Structures, 2019, 42, 710-718.	1.7	27

#	ARTICLE	IF	CITATIONS
2022	Energy Efficient Solutions in Wireless Sensor Systems for Water Quality Monitoring: A Review. IEEE Sensors Journal, 2019, 19, 1596-1625.	2.4	67
2023	A hybridization of differential evolution and monarch butterfly optimization for solving systems of nonlinear equations. Journal of Computational Design and Engineering, 2019, 6, 354-367.	1.5	28
2024	Seagull optimization algorithm: Theory and its applications for large-scale industrial engineering problems. Knowledge-Based Systems, 2019, 165, 169-196.	4.0	720
2025	A hybrid GSA-GA algorithm for constrained optimization problems. Information Sciences, 2019, 478, 499-523.	4.0	204
2026	Design and implementation of a hybrid MLP-GSA model with multi-layer perceptron-gravitational search algorithm for monthly lake water level forecasting. Stochastic Environmental Research and Risk Assessment, 2019, 33, 125-147.	1.9	32
2027	Ensemble-Based Support Vector Regression with Gravitational Search Algorithm Optimization for Estimating Magnetic Relative Cooling Power of Manganite Refrigerant in Magnetic Refrigeration Application. Journal of Superconductivity and Novel Magnetism, 2019, 32, 2107-2118.	0.8	15
2028	Vector quantization using the improved differential evolution algorithm for image compression. Genetic Programming and Evolvable Machines, 2019, 20, 187-212.	1.5	15
2029	The whirlpool algorithm based on physical phenomenon for solving optimization problems. Engineering Computations, 2019, 36, 664-690.	0.7	7
2030	An opposition-based chaotic Grey Wolf Optimizer for global optimisation tasks. Journal of Experimental and Theoretical Artificial Intelligence, 2019, 31, 751-779.	1.8	39
2031	A Modified Gravitational Search Algorithm for Function Optimization. IEEE Access, 2019, 7, 5984-5993.	2.6	10
2032	Cuckoo search algorithm with explosion operator for modeling proton exchange membrane fuel cells. International Journal of Hydrogen Energy, 2019, 44, 3075-3087.	3.8	93
2033	An optimization algorithm guided by a machine learning approach. International Journal of Machine Learning and Cybernetics, 2019, 10, 2963-2991.	2.3	12
2034	Solving the combined heat and power economic dispatch problems by an improved genetic algorithm and a new constraint handling strategy. Applied Energy, 2019, 237, 646-670.	5.1	152
2035	An optimally designed digital differentiator based preprocessor for R-peak detection in electrocardiogram signal. Biomedical Signal Processing and Control, 2019, 49, 440-464.	3.5	32
2036	Modeling of inverted pendulum system with gravitational search algorithm optimized controller. Ain Shams Engineering Journal, 2019, 10, 129-149.	3.5	24
2037	An improved moth-flame optimization algorithm for solving optimal power flow problem. International Transactions on Electrical Energy Systems, 2019, 29, e2743.	1.2	94
2038	Inverse estimation of boundary conditions with forced convection heat transfer in two dimensional channels. Heat and Mass Transfer, 2019, 55, 1927-1935.	1.2	4
2039	Mixed grey wolf optimizer for the joint denoising and unmixing of multispectral images. Applied Soft Computing Journal, 2019, 74, 385-410.	4.1	32

#	ARTICLE	IF	CITATIONS
2040	Opposition-based moth flame optimization with Cauchy mutation and evolutionary boundary constraint handling for global optimization. <i>Soft Computing</i> , 2019, 23, 6023-6041.	2.1	70
2041	PSO-GSA based fuzzy sliding mode controller for DFIG-based wind turbine. <i>ISA Transactions</i> , 2019, 85, 177-188.	3.1	67
2042	An automated approach for the design of Mechanically Stabilized Earth Walls incorporating metaheuristic optimization algorithms. <i>Applied Soft Computing Journal</i> , 2019, 74, 547-566.	4.1	12
2043	Symbiotic organisms search algorithm: Theory, recent advances and applications. <i>Expert Systems With Applications</i> , 2019, 119, 184-209.	4.4	109
2044	A novel multi-objective hybrid WIPSO-GSA algorithm-based optimal DG and capacitor planning for techno-economic benefits in radial distribution system. <i>International Journal of Energy Sector Management</i> , 2019, 13, 98-127.	1.2	7
2045	Swarm hyperheuristic framework. <i>Journal of Heuristics</i> , 2019, 25, 809-836.	1.1	5
2046	An efficient salp swarm-inspired algorithm for parameters identification of photovoltaic cell models. <i>Energy Conversion and Management</i> , 2019, 179, 362-372.	4.4	303
2047	A hybrid self-adaptive sine cosine algorithm with opposition based learning. <i>Expert Systems With Applications</i> , 2019, 119, 210-230.	4.4	221
2048	Track circuit fault prediction method based on grey theory and expert system. <i>Journal of Visual Communication and Image Representation</i> , 2019, 58, 37-45.	1.7	35
2049	Modified water cycle algorithm for optimal direction overcurrent relays coordination. <i>Applied Soft Computing Journal</i> , 2019, 74, 10-25.	4.1	70
2050	Interval type-2 fuzzy logic for dynamic parameter adaptation in a modified gravitational search algorithm. <i>Information Sciences</i> , 2019, 476, 159-175.	4.0	115
2051	A reactive model based on neighborhood consensus for continuous optimization. <i>Expert Systems With Applications</i> , 2019, 121, 115-141.	4.4	4
2052	PID Controller Tuning Parameters Using Meta-heuristics Algorithms: Comparative Analysis. <i>Studies in Computational Intelligence</i> , 2019, , 413-430.	0.7	9
2053	A Hybrid Algorithm Based on Particle Swarm and Spotted Hyena Optimizer for Global Optimization. <i>Advances in Intelligent Systems and Computing</i> , 2019, , 599-615.	0.5	53
2055	Support vector regression with modified firefly algorithm for stock price forecasting. <i>Applied Intelligence</i> , 2019, 49, 1658-1674.	3.3	63
2056	Solving high-dimensional global optimization problems using an improved sine cosine algorithm. <i>Expert Systems With Applications</i> , 2019, 123, 108-126.	4.4	134
2057	Memetic frog leaping algorithm for global optimization. <i>Soft Computing</i> , 2019, 23, 11077-11105.	2.1	16
2058	Estimation of minimum ignition energy of explosive chemicals using gravitational search algorithm based support vector regression. <i>Journal of Loss Prevention in the Process Industries</i> , 2019, 57, 156-163.	1.7	17

#	ARTICLE	IF	CITATIONS
2059	Modeling and optimization of multi-item multi-constrained EOQ model for growing items. Knowledge-Based Systems, 2019, 164, 150-162.	4.0	64
2060	Hybrid Nelderâ€“Mead Algorithm and Dragonfly Algorithm for Function Optimization and the Training of a Multilayer Perceptron. Arabian Journal for Science and Engineering, 2019, 44, 3473-3487.	1.7	33
2061	A novel modeling approach and its application in polymer quality index prediction. Transactions of the Institute of Measurement and Control, 2019, 41, 2005-2015.	1.1	3
2062	GSAâ€“FAPSO-Based Generators Active Power Rescheduling for Transmission Congestion Management. IEEE Systems Journal, 2019, 13, 3266-3273.	2.9	13
2063	An improved TLBO with logarithmic spiral and triangular mutation for global optimization. Neural Computing and Applications, 2019, 31, 4435-4450.	3.2	19
2064	Boosting galactic swarm optimization with ABC. International Journal of Machine Learning and Cybernetics, 2019, 10, 2401-2419.	2.3	12
2065	An artificial bee colony algorithm search guided by scale-free networks. Information Sciences, 2019, 473, 142-165.	4.0	54
2066	Temperature dependent modelling of magnetorheological (MR) dampers using support vector regression. Smart Materials and Structures, 2019, 28, 025021.	1.8	11
2067	Attraction and diffusion in nature-inspired optimization algorithms. Neural Computing and Applications, 2019, 31, 1987-1994.	3.2	20
2068	A mathematical model and artificial bee colony algorithm for the lexicographic bottleneck mixed-model assembly line balancing problem. Journal of Intelligent Manufacturing, 2019, 30, 2913-2925.	4.4	23
2069	Multi-objective fractional gravitational search algorithm for energy efficient routing in IoT. Wireless Networks, 2019, 25, 399-413.	2.0	78
2070	Maximal coverage hybrid search algorithm for deployment in wireless sensor networks. Wireless Networks, 2019, 25, 637-652.	2.0	12
2071	Optimal sliding mode control for frequency regulation in deregulated power systems with DFIG-based wind turbine and TCSCâ€“SMES. Neural Computing and Applications, 2019, 31, 3039-3056.	3.2	28
2072	An efficient hybrid algorithm based on Water Cycle and Moth-Flame Optimization algorithms for solving numerical and constrained engineering optimization problems. Soft Computing, 2019, 23, 1699-1722.	2.1	166
2073	Sports inspired computational intelligence algorithms for global optimization. Artificial Intelligence Review, 2019, 52, 1579-1627.	9.7	36
2074	A new hybrid gravitational searchâ€“teachingâ€“learning-based optimization method for energy demand estimation of Turkey. Neural Computing and Applications, 2019, 31, 2939-2954.	3.2	33
2075	Elite Opposition-Based Cognitive Behavior Optimization Algorithm for Global Optimization. Journal of Intelligent Systems, 2019, 28, 185-217.	1.2	2
2076	Gravitational search algorithm with both attractive and repulsive forces. Soft Computing, 2019, 23, 783-825.	2.1	23

#	ARTICLE	IF	CITATIONS
2077	Damping vibration-based IGMM optimization algorithm: fast and significant. <i>Soft Computing</i> , 2019, 23, 451-481.	2.1	6
2078	Self-organizing hierarchical monkey algorithm with time-varying parameter. <i>Neural Computing and Applications</i> , 2019, 31, 3245-3263.	3.2	4
2079	Gravitational search algorithm and K-means for simultaneous feature selection and data clustering: a multi-objective approach. <i>Soft Computing</i> , 2019, 23, 2083-2100.	2.1	19
2080	A hybrid cluster head selection model for Internet of Things. <i>Cluster Computing</i> , 2019, 22, 13095-13107.	3.5	23
2081	Evaluation of soil liquefaction potential using energy approach: experimental and statistical investigation. <i>Bulletin of Engineering Geology and the Environment</i> , 2019, 78, 1697-1708.	1.6	35
2082	A review on the cosine modulated filter bank studies using meta-heuristic optimization algorithms. <i>Artificial Intelligence Review</i> , 2019, 52, 1629-1653.	9.7	12
2083	Gist: general integrated summarization of text and reviews. <i>Soft Computing</i> , 2019, 23, 1589-1601.	2.1	13
2084	Hybrid SCA&TLBO: a novel optimization algorithm for global optimization and visual tracking. <i>Neural Computing and Applications</i> , 2019, 31, 5497-5526.	3.2	46
2085	An elitism-based self-adaptive multi-population Jaya algorithm and its applications. <i>Soft Computing</i> , 2019, 23, 4383-4406.	2.1	42
2086	Flower pollination algorithm: a comprehensive review. <i>Artificial Intelligence Review</i> , 2019, 52, 2533-2557.	9.7	150
2087	A gravitation-based link prediction approach in social networks. <i>Swarm and Evolutionary Computation</i> , 2019, 44, 176-186.	4.5	35
2088	Infinite impulse response systems modeling by artificial intelligent optimization methods. <i>Evolving Systems</i> , 2019, 10, 221-237.	2.4	21
2089	Chaotic grasshopper optimization algorithm for global optimization. <i>Neural Computing and Applications</i> , 2019, 31, 4385-4405.	3.2	199
2090	A novel nature-inspired algorithm for optimization: Squirrel search algorithm. <i>Swarm and Evolutionary Computation</i> , 2019, 44, 148-175.	4.5	630
2091	A Hybrid Intelligent Approach for Co-Scheduling of Cascaded Locks With Multiple Chambers. <i>IEEE Transactions on Cybernetics</i> , 2019, 49, 1236-1248.	6.2	25
2092	Butterfly optimization algorithm: a novel approach for global optimization. <i>Soft Computing</i> , 2019, 23, 715-734.	2.1	985
2093	An improved heat transfer search algorithm for unconstrained optimization problems. <i>Journal of Computational Design and Engineering</i> , 2019, 6, 13-32.	1.5	28
2094	Gene Expression Data Clustering Using Variance-based Harmony Search Algorithm. <i>IETE Journal of Research</i> , 2019, 65, 641-652.	1.8	8

#	ARTICLE	IF	CITATIONS
2095	A modified teaching-learning-based optimization algorithm for numerical function optimization. <i>International Journal of Machine Learning and Cybernetics</i> , 2019, 10, 1357-1371.	2.3	15
2096	An energy-aware trust-based routing algorithm using gravitational search approach in wireless sensor networks. <i>Peer-to-Peer Networking and Applications</i> , 2019, 12, 167-176.	2.6	28
2097	Automatic clustering and feature selection using gravitational search algorithm and its application to microarray data analysis. <i>Neural Computing and Applications</i> , 2019, 31, 3647-3663.	3.2	10
2098	VLCI approach for optimal capacitors allocation in distribution networks based on hybrid PSO-GSA optimization algorithm. <i>Neural Computing and Applications</i> , 2019, 31, 3833-3850.	3.2	15
2099	A novel Random Walk Grey Wolf Optimizer. <i>Swarm and Evolutionary Computation</i> , 2019, 44, 101-112.	4.5	286
2100	Incremental gravitational search algorithm for high-dimensional benchmark functions. <i>Neural Computing and Applications</i> , 2019, 31, 3779-3803.	3.2	11
2101	Metaheuristic research: a comprehensive survey. <i>Artificial Intelligence Review</i> , 2019, 52, 2191-2233.	9.7	480
2102	Implementing self adaptiveness in whale optimization for cluster head selection in Internet of Things. <i>Cluster Computing</i> , 2019, 22, 1361-1372.	3.5	57
2103	Multi-objective sine-cosine algorithm (MO-SCA) for multi-objective engineering design problems. <i>Neural Computing and Applications</i> , 2019, 31, 915-929.	3.2	102
2104	Linear active disturbance rejection control approach for load frequency control of two-area interconnected power system. <i>Transactions of the Institute of Measurement and Control</i> , 2019, 41, 1562-1570.	1.1	30
2105	Escape velocity: a new operator for gravitational search algorithm. <i>Neural Computing and Applications</i> , 2019, 31, 27-42.	3.2	17
2106	Single-machine and parallel-machine serial-batching scheduling problems with position-based learning effect and linear setup time. <i>Annals of Operations Research</i> , 2019, 272, 217-241.	2.6	68
2107	Multifault diagnosis in WSN using a hybrid metaheuristic trained neural network. <i>Digital Communications and Networks</i> , 2020, 6, 86-100.	2.7	32
2108	Optimal multiple installation of DG and capacitor for energy loss reduction and loadability enhancement in the radial distribution network using the hybrid WIPSO-GSA algorithm. <i>International Journal of Ambient Energy</i> , 2020, 41, 129-141.	1.4	33
2109	Most Valuable Player Algorithm: a novel optimization algorithm inspired from sport. <i>Operational Research</i> , 2020, 20, 139-195.	1.3	40
2110	Imperialist Competitive Algorithm with Effective Assimilation Strategy: A Comparative Study on Numerical Benchmark Functions. <i>IETE Journal of Research</i> , 2020, 66, 697-710.	1.8	3
2111	Accurate Classification of EEG Signals Using Neural Networks Trained by Hybrid Population-physic-based Algorithm. <i>International Journal of Automation and Computing</i> , 2020, 17, 108-122.	4.5	28
2112	CLSA-MRPID controller for automatic generation control of a three-area hybrid system. <i>Energy Systems</i> , 2020, 11, 163-194.	1.8	4

#	ARTICLE	IF	CITATIONS
2113	Sonar inspired optimization (SIO) in engineering applications. <i>Evolving Systems</i> , 2020, 11, 531-539.	2.4	10
2114	Nuclear Fissionâ€“Nuclear Fusion algorithm for global optimization: a modified Big Bangâ€“Big Crunch algorithm. <i>Neural Computing and Applications</i> , 2020, 32, 2751-2783.	3.2	8
2115	A-COA: an adaptive cuckoo optimization algorithm for continuous and combinatorial optimization. <i>Neural Computing and Applications</i> , 2020, 32, 681-705.	3.2	18
2116	Binary whale optimization algorithm and its application to unit commitment problem. <i>Neural Computing and Applications</i> , 2020, 32, 2095-2123.	3.2	49
2117	MOGSABAT: a metaheuristic hybrid algorithm for solving multi-objective optimisation problems. <i>Neural Computing and Applications</i> , 2020, 32, 3101-3115.	3.2	37
2118	Weighted differential evolution algorithm for numerical function optimization: a comparative study with cuckoo search, artificial bee colony, adaptive differential evolution, and backtracking search optimization algorithms. <i>Neural Computing and Applications</i> , 2020, 32, 3923-3937.	3.2	81
2119	Plant leaf disease identification using exponential spider monkey optimization. <i>Sustainable Computing: Informatics and Systems</i> , 2020, 28, 100283.	1.6	85
2120	Comprehensive learning gravitational search algorithm for global optimization of multimodal functions. <i>Neural Computing and Applications</i> , 2020, 32, 7347-7382.	3.2	16
2121	Nature-inspired meta-heuristics approaches for charging plug-in hybrid electric vehicle. <i>Wireless Networks</i> , 2020, 26, 4753-4766.	2.0	41
2122	Multi-Objective Stochastic Fractal Search: a powerful algorithm for solving complex multi-objective optimization problems. <i>Soft Computing</i> , 2020, 24, 3037-3066.	2.1	59
2123	A Novel Swarm Intelligence Based Optimization Method: Harrisâ€™ Hawk Optimization. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 832-842.	0.5	9
2124	An Introduction to Nature-Inspired Metaheuristics and Swarm Methods. <i>Intelligent Systems Reference Library</i> , 2020, , 1-41.	1.0	3
2126	An Improved Opposition Based Grasshopper Optimisation Algorithm for Numerical Optimization. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 843-851.	0.5	4
2127	The Selfish Herd Optimizer. <i>Intelligent Systems Reference Library</i> , 2020, , 69-109.	1.0	3
2128	From ants to whales: metaheuristics for all tastes. <i>Artificial Intelligence Review</i> , 2020, 53, 753-810.	9.7	109
2129	A survey of swarm and evolutionary computing approaches for deep learning. <i>Artificial Intelligence Review</i> , 2020, 53, 1767-1812.	9.7	104
2130	Enhanced leadership-inspired grey wolf optimizer for global optimization problems. <i>Engineering With Computers</i> , 2020, 36, 1777-1800.	3.5	50
2131	An improved differential-based harmony search algorithm with linear dynamic domain. <i>Knowledge-Based Systems</i> , 2020, 187, 104809.	4.0	30

#	ARTICLE	IF	CITATIONS
2132	New binary whale optimization algorithm for discrete optimization problems. <i>Engineering Optimization</i> , 2020, 52, 945-959.	1.5	106
2133	A Comparative Study of Recent Non-traditional Methods for Mechanical Design Optimization. <i>Archives of Computational Methods in Engineering</i> , 2020, 27, 1031-1048.	6.0	115
2134	Packing algorithm inspired by gravitational and electromagnetic effects. <i>Wireless Networks</i> , 2020, 26, 5631-5644.	2.0	2
2135	Binary spotted hyena optimizer and its application to feature selection. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2020, 11, 2625-2645.	3.3	41
2136	Enhanced leader particle swarm optimisation (ELPSO): a new algorithm for optimal scheduling of home appliances in demand response programs. <i>Artificial Intelligence Review</i> , 2020, 53, 2043-2073.	9.7	26
2137	A Swarm Algorithm Inspired by the Collective Animal Behavior. <i>Intelligent Systems Reference Library</i> , 2020, , 161-188.	1.0	6
2138	Multimodal Swarm Algorithm Based on the Collective Animal Behavior (CAB) for Circle Detection. <i>Intelligent Systems Reference Library</i> , 2020, , 241-278.	1.0	0
2139	A novel meta-heuristic optimization method based on golden ratio in nature. <i>Soft Computing</i> , 2020, 24, 1117-1151.	2.1	75
2140	A comparison of modified treeâ€œseed algorithm for high-dimensional numerical functions. <i>Neural Computing and Applications</i> , 2020, 32, 6877-6911.	3.2	18
2141	An adaptive multi-objective optimization method for optimum design of distribution networks. <i>Engineering Optimization</i> , 2020, 52, 194-217.	1.5	11
2142	Opposition-based antlion optimizer using Cauchy distribution and its application to data clustering problem. <i>Neural Computing and Applications</i> , 2020, 32, 6967-6995.	3.2	17
2143	SP-J48: a novel optimization and machine-learning-based approach for solving complex problems: special application in software engineering for detecting code smells. <i>Neural Computing and Applications</i> , 2020, 32, 7009-7027.	3.2	7
2144	A niching behaviour-based algorithm for multi-level manufacturing service composition optimal-selection. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2020, 11, 1177-1189.	3.3	9
2145	Hybrid computational intelligence algorithms and their applications to detect food quality. <i>Artificial Intelligence Review</i> , 2020, 53, 1415-1440.	9.7	9
2146	Sine Cosine Algorithm: Theory, Literature Review, and Application in Designing Bend Photonic Crystal Waveguides. <i>Studies in Computational Intelligence</i> , 2020, , 201-217.	0.7	44
2147	Energy-efficient clustering method for wireless sensor networks using modified gravitational search algorithm. <i>Evolving Systems</i> , 2020, 11, 575-587.	2.4	18
2148	Optimized Feed Forward Neural Network for Microscopic White Blood Cell Images Classification. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 758-767.	0.5	4
2149	Sizing Optimization of Truss Structures with Continuous Variables by Artificial Coronary Circulation System Algorithm. <i>Iranian Journal of Science and Technology - Transactions of Civil Engineering</i> , 2020, 44, 1-20.	1.0	11

#	ARTICLE	IF	CITATIONS
2150	Nature-Inspired Optimization Algorithms and Their Application in Multi-Thresholding Image Segmentation. Archives of Computational Methods in Engineering, 2020, 27, 855-888.	6.0	70
2151	Optimal feature selection in industrial foam injection processes using hybrid binary Particle Swarm Optimization and Gravitational Search Algorithm in the Mahalanobisâ€“Taguchi System. Soft Computing, 2020, 24, 341-349.	2.1	10
2152	Parameter identification of two dimensional digital filters using electro-magnetism optimization. Multimedia Tools and Applications, 2020, 79, 5005-5022.	2.6	6
2153	A hybrid structure of an extreme learning machine combined with feature selection, signal decomposition and parameter optimization for short-term wind speed forecasting. Transactions of the Institute of Measurement and Control, 2020, 42, 3-21.	1.1	15
2154	Parameter optimization of 5.5ÅGHz low noise amplifier using multi-objective Firefly Algorithm. Microsystem Technologies, 2020, 26, 3289-3297.	1.2	9
2155	Enhance chaotic gravitational search algorithm (CGSA) by balance adjustment mechanism and sine randomness function for continuous optimization problems. Physica A: Statistical Mechanics and Its Applications, 2020, 537, 122621.	1.2	18
2156	Development of gravitational search algorithm model for predicting packing density of cementitious pastes. Journal of Building Engineering, 2020, 27, 100946.	1.6	9
2157	Fireworks explosion based artificial bee colony for numerical optimization. Knowledge-Based Systems, 2020, 188, 105002.	4.0	14
2158	Chaos-enhanced synchronized bat optimizer. Applied Mathematical Modelling, 2020, 77, 1201-1215.	2.2	83
2159	Spherical search optimizer: a simple yet efficient meta-heuristic approach. Neural Computing and Applications, 2020, 32, 9777-9808.	3.2	21
2160	An improved water wave optimisation algorithm enhanced by CMA-ES and opposition-based learning. Connection Science, 2020, 32, 132-161.	1.8	10
2161	Sineâ€“cosine crow search algorithm: theory and applications. Neural Computing and Applications, 2020, 32, 7725-7742.	3.2	48
2162	A multi-level image thresholding approach using Otsu based on the improved invasive weed optimization algorithm. Signal, Image and Video Processing, 2020, 14, 575-582.	1.7	10
2163	New feature selection methods based on opposition-based learning and self-adaptive cohort intelligence for predicting patient no-shows. Applied Soft Computing Journal, 2020, 86, 105866.	4.1	44
2164	Black Widow Optimization Algorithm: A novel meta-heuristic approach for solving engineering optimization problems. Engineering Applications of Artificial Intelligence, 2020, 87, 103249.	4.3	458
2165	Electron radar search algorithm: a novel developed meta-heuristic algorithm. Soft Computing, 2020, 24, 8443-8465.	2.1	7
2166	Energy management of the energy storage-based micro-grid-connected system: an SOGSNN strategy. Soft Computing, 2020, 24, 8481-8494.	2.1	10
2167	Reduction of harmonic monitors and estimation of voltage harmonics in distribution networks using wavelet analysis and NARX. Electric Power Systems Research, 2020, 178, 106046.	2.1	14

#	ARTICLE	IF	CITATIONS
2168	An efficient double adaptive random spare reinforced whale optimization algorithm. <i>Expert Systems With Applications</i> , 2020, 154, 113018.	4.4	130
2169	Parameter tuning for meta-heuristics. <i>Knowledge-Based Systems</i> , 2020, 189, 105094.	4.0	38
2170	A New Teaching- <i>Learning-based Chicken Swarm Optimization Algorithm</i> . <i>Soft Computing</i> , 2020, 24, 5313-5331.	2.1	32
2171	Nature-Inspired Algorithms for k-Coverage and m-Connectivity Problems in Wireless Sensor Networks. <i>Lecture Notes in Networks and Systems</i> , 2020, , 281-301.	0.5	11
2172	Memetic quantum evolution algorithm for global optimization. <i>Neural Computing and Applications</i> , 2020, 32, 9299-9329.	3.2	7
2173	Modified Whale Optimization Algorithm for Infinitive Impulse Response System Identification. <i>Arabian Journal for Science and Engineering</i> , 2020, 45, 2163-2176.	1.7	20
2174	A novel cuckoo search algorithm under adaptive parameter control for global numerical optimization. <i>Soft Computing</i> , 2020, 24, 4917-4940.	2.1	18
2175	Sandpiper optimization algorithm: a novel approach for solving real-life engineering problems. <i>Applied Intelligence</i> , 2020, 50, 582-619.	3.3	49
2176	Optimal Placement and Sizing of Uncertain PVs Considering Stochastic Nature of PEVs. <i>IEEE Transactions on Sustainable Energy</i> , 2020, 11, 1647-1656.	5.9	49
2177	Experimental prototype of a novel feed forward compensation for DC-link voltage stabilization in grid-tied PV system. <i>International Transactions on Electrical Energy Systems</i> , 2020, 30, e12172.	1.2	9
2178	Exploiting flower constancy in flower pollination algorithm: improved biotic flower pollination algorithm and its experimental evaluation. <i>Neural Computing and Applications</i> , 2020, 32, 11999-12010.	3.2	12
2179	A comprehensive survey on symbiotic organisms search algorithms. <i>Artificial Intelligence Review</i> , 2020, 53, 2265-2312.	9.7	104
2180	Optimal power flow with stochastic wind power and FACTS devices: a modified hybrid PSO-GSA with chaotic maps approach. <i>Neural Computing and Applications</i> , 2020, 32, 8463-8492.	3.2	46
2181	Optimal Coordination of Overcurrent Relays Using Improved Leadership-Based Grey Wolf Optimizer. <i>Arabian Journal for Science and Engineering</i> , 2020, 45, 2081-2091.	1.7	17
2182	m-MBOA: a novel butterfly optimization algorithm enhanced with mutualism scheme. <i>Soft Computing</i> , 2020, 24, 4809-4827.	2.1	54
2183	A hybrid optimization approach based on clustering and chaotic sequences. <i>International Journal of Machine Learning and Cybernetics</i> , 2020, 11, 359-401.	2.3	22
2184	Novel meta-heuristic bald eagle search optimisation algorithm. <i>Artificial Intelligence Review</i> , 2020, 53, 2237-2264.	9.7	352
2185	On Stability Analysis of Particle Swarm Optimization Algorithm. <i>Arabian Journal for Science and Engineering</i> , 2020, 45, 2385-2394.	1.7	29

#	ARTICLE	IF	CITATIONS
2186	Design of fuzzy logic system framework using evolutionary techniques. <i>Soft Computing</i> , 2020, 24, 4455-4468.	2.1	11
2187	Feature selection by recursive binary gravitational search algorithm optimization for cancer classification. <i>Soft Computing</i> , 2020, 24, 4407-4425.	2.1	15
2188	GuASPSO: a new approach to hold a better explorationâ€œexploitation balance in PSO algorithm. <i>Soft Computing</i> , 2020, 24, 4855-4875.	2.1	20
2189	Feature selection using binary grey wolf optimizer with elite-based crossover for Arabic text classification. <i>Neural Computing and Applications</i> , 2020, 32, 12201-12220.	3.2	121
2190	Hybrid advanced player selection strategy based population search for global optimization. <i>Expert Systems With Applications</i> , 2020, 139, 112825.	4.4	5
2191	Task scheduling in cloud computing using particle swarm optimization with time varying inertia weight strategies. <i>Cluster Computing</i> , 2020, 23, 1137-1147.	3.5	57
2192	Artificial ecosystem-based optimization: a novel nature-inspired meta-heuristic algorithm. <i>Neural Computing and Applications</i> , 2020, 32, 9383-9425.	3.2	233
2193	Development and applications of an intelligent crow search algorithm based on opposition based learning. <i>ISA Transactions</i> , 2020, 99, 210-230.	3.1	68
2194	A weighting algorithm based on the gravitational model for local stereo matching. <i>Signal, Image and Video Processing</i> , 2020, 14, 315-323.	1.7	4
2195	Selective maintenance process optimization based on an improved gravitational search algorithm, from the perspective of energy consumption. <i>Engineering Optimization</i> , 2020, 52, 1401-1420.	1.5	7
2196	On the improvement in grey wolf optimization. <i>Neural Computing and Applications</i> , 2020, 32, 3709-3748.	3.2	19
2197	An optimal interval type-2 fuzzy logic control based closed-loop drug administration to regulate the mean arterial blood pressure. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 185, 105167.	2.6	32
2198	A novel life choice-based optimizer. <i>Soft Computing</i> , 2020, 24, 9121-9141.	2.1	33
2199	Optimal probabilistic reliable hybrid allocation for system reconfiguration applying WT/PV and reclosures. <i>Ain Shams Engineering Journal</i> , 2020, 11, 109-118.	3.5	18
2200	A novel hybrid bat algorithm with a fast clustering-based hybridization. <i>Evolutionary Intelligence</i> , 2020, 13, 427-442.	2.3	7
2201	Fitness-distance balance (FDB): A new selection method for meta-heuristic search algorithms. <i>Knowledge-Based Systems</i> , 2020, 190, 105169.	4.0	113
2202	Barnacles Mating Optimizer: A new bio-inspired algorithm for solving engineering optimization problems. <i>Engineering Applications of Artificial Intelligence</i> , 2020, 87, 103330.	4.3	248
2203	Equilibrium optimizer: A novel optimization algorithm. <i>Knowledge-Based Systems</i> , 2020, 191, 105190.	4.0	1,262

#	ARTICLE	IF	CITATIONS
2204	A new algorithm for normal and large-scale optimization problems: Nomadic People Optimizer. <i>Neural Computing and Applications</i> , 2020, 32, 10359-10386.	3.2	70
2205	A novel hybrid metaheuristic optimization method: hypercube natural aggregation algorithm. <i>Soft Computing</i> , 2020, 24, 8823-8856.	2.1	5
2206	A study on metaheuristics approaches for gene selection in microarray data: algorithms, applications and open challenges. <i>Evolutionary Intelligence</i> , 2020, 13, 309-329.	2.3	26
2207	STSA: A sine Tree-Seed Algorithm for complex continuous optimization problems. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 537, 122802.	1.2	31
2208	A powerful variant of symbiotic organisms search algorithm for global optimization. <i>Engineering Applications of Artificial Intelligence</i> , 2020, 87, 103294.	4.3	69
2209	Manta ray foraging optimization: An effective bio-inspired optimizer for engineering applications. <i>Engineering Applications of Artificial Intelligence</i> , 2020, 87, 103300.	4.3	605
2210	Improved magnetic charged system search optimization algorithm with application to satellite formation flying. <i>Engineering Applications of Artificial Intelligence</i> , 2020, 89, 103473.	4.3	3
2211	A novel swarm intelligence optimization approach: sparrow search algorithm. <i>Systems Science and Control Engineering</i> , 2020, 8, 22-34.	1.8	1,527
2212	Side-Blotched Lizard Algorithm: A polymorphic population approach. <i>Applied Soft Computing Journal</i> , 2020, 88, 106039.	4.1	27
2213	Application of Developed New Artificial Intelligence Approaches in Civil Engineering for Ultimate Pile Bearing Capacity Prediction in Soil Based on Experimental Datasets. <i>Iranian Journal of Science and Technology - Transactions of Civil Engineering</i> , 2020, 44, 545-559.	1.0	3
2214	Color harmony algorithm: an art-inspired metaheuristic for mathematical function optimization. <i>Soft Computing</i> , 2020, 24, 12027-12066.	2.1	22
2215	Metaheuristic anopheles search algorithm. <i>Evolutionary Intelligence</i> , 2020, 13, 511-523.	2.3	3
2216	Multivector particle swarm optimization algorithm. <i>Soft Computing</i> , 2020, 24, 11695-11713.	2.1	22
2217	An ecological space based hybrid swarm-evolutionary algorithm for software reliability model parameter estimation. <i>International Journal of Systems Assurance Engineering and Management</i> , 2020, 11, 77-92.	1.5	9
2218	An intensify Harris Hawks optimizer for numerical and engineering optimization problems. <i>Applied Soft Computing Journal</i> , 2020, 89, 106018.	4.1	182
2219	New mixed-coding PSO algorithm for a self-adaptive and automatic learning of Mamdani fuzzy rules. <i>Engineering Applications of Artificial Intelligence</i> , 2020, 89, 103417.	4.3	25
2220	Manifold learning for efficient gravitational search algorithm. <i>Information Sciences</i> , 2020, 517, 18-36.	4.0	10
2221	Improving exploration and exploitation via a Hyperbolic Gravitational Search Algorithm. <i>Knowledge-Based Systems</i> , 2020, 193, 105404.	4.0	37

#	ARTICLE	IF	CITATIONS
2222	A novel hybrid many optimizing liaisons gravitational search algorithm approach for AGC of power systems. <i>Automatika</i> , 2020, 61, 158-178.	1.2	27
2223	Comparison of recent optimization algorithms for design optimization of a cam-follower mechanism. <i>Knowledge-Based Systems</i> , 2020, 191, 105237.	4.0	87
2224	Improved fluid search optimization-based real-time weed mapping. <i>Information Processing in Agriculture</i> , 2020, 7, 403-417.	2.9	4
2225	Deep Learning Method Based on Gated Recurrent Unit and Variational Mode Decomposition for Short-Term Wind Power Interval Prediction. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2020, 31, 3814-3827.	7.2	104
2226	An optimum forceful generation scheduling and unit commitment of thermal power system using sine cosine algorithm. <i>Neural Computing and Applications</i> , 2020, 32, 2785-2814.	3.2	15
2227	Hybrid Particle Swarm Optimization with Sine Cosine Algorithm and Nelder-Mead Simplex for Solving Engineering Design Problems. <i>Arabian Journal for Science and Engineering</i> , 2020, 45, 3091-3109.	1.7	22
2228	Monitoring tool wear using wavelet package decomposition and a novel gravitational search algorithm-least square support vector machine model. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2020, 234, 822-836.	1.1	18
2229	Ecological operation of cascade hydropower reservoirs by elite-guide gravitational search algorithm with Levy flight local search and mutation. <i>Journal of Hydrology</i> , 2020, 581, 124425.	2.3	50
2230	A New Hybrid Particle Swarm Optimization and Genetic Algorithm Method Controlled by Fuzzy Logic. <i>IEEE Transactions on Fuzzy Systems</i> , 2020, 28, 1140-1154.	6.5	61
2231	A new QPSO based hybrid algorithm for constrained optimization problems via tournamenting process. <i>Soft Computing</i> , 2020, 24, 11365-11379.	2.1	34
2232	Grasshopper optimization algorithm with principal component analysis for global optimization. <i>Journal of Supercomputing</i> , 2020, 76, 5609-5635.	2.4	12
2233	Mitigating Metaphors: A Comprehensible Guide to Recent Nature-Inspired Algorithms. <i>SN Computer Science</i> , 2020, 1, 1.	2.3	54
2234	A local-gravitation-based method for the detection of outliers and boundary points. <i>Knowledge-Based Systems</i> , 2020, 192, 105331.	4.0	23
2235	Gaining-sharing knowledge based algorithm for solving optimization problems: a novel nature-inspired algorithm. <i>International Journal of Machine Learning and Cybernetics</i> , 2020, 11, 1501-1529.	2.3	271
2236	Brain Image Segmentation Based on the Hybrid of Back Propagation Neural Network and AdaBoost System. <i>Journal of Signal Processing Systems</i> , 2020, 92, 289-298.	1.4	7
2237	Electric fish optimization: a new heuristic algorithm inspired by electrolocation. <i>Neural Computing and Applications</i> , 2020, 32, 11543-11578.	3.2	65
2238	Artificial bee colony directive for continuous optimization. <i>Applied Soft Computing Journal</i> , 2020, 87, 105982.	4.1	21
2239	Lion swarm optimization algorithm for comparative study with application to optimal dispatch of cascade hydropower stations. <i>Applied Soft Computing Journal</i> , 2020, 87, 105974.	4.1	29

#	ARTICLE	IF	CITATIONS
2240	Thorough state-of-the-art analysis of electric and hybrid vehicle powertrains: Topologies and integrated energy management strategies. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 119, 109596.	8.2	270
2241	Heuristics, metaheuristics, and hyperheuristics for rich vehicle routing problems. , 2020, , 101-156.		8
2242	A novel hybrid sine cosine algorithm for global optimization and its application to train multilayer perceptrons. <i>Applied Intelligence</i> , 2020, 50, 993-1026.	3.3	60
2243	SCGSA: A sine chaotic gravitational search algorithm for continuous optimization problems. <i>Expert Systems With Applications</i> , 2020, 144, 113118.	4.4	18
2244	Tool Wear Estimation in End Milling of Titanium Alloy Using NPE and a Novel WOA-SVM Model. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020, 69, 5219-5232.	2.4	61
2245	Multiplanar reconstruction with incomplete data via enhanced fuzzy radial basis function neural networks. <i>Biomedical Signal Processing and Control</i> , 2020, 57, 101766.	3.5	1
2246	Performance analysis of Chaotic Multi-Verse Harris Hawks Optimization: A case study on solving engineering problems. <i>Engineering Applications of Artificial Intelligence</i> , 2020, 88, 103370.	4.3	83
2247	An Improved Moth-Flame Optimization algorithm with hybrid search phase. <i>Knowledge-Based Systems</i> , 2020, 191, 105277.	4.0	78
2248	Two New Improved Variants of Grey Wolf Optimizer for Unconstrained Optimization. <i>IEEE Access</i> , 2020, 8, 30805-30825.	2.6	15
2249	A Hybrid Optimization Technique Using Exchange Market and Genetic Algorithms. <i>IEEE Access</i> , 2020, 8, 2417-2427.	2.6	42
2250	Design of Optimal Two-Dimensional FIR Filters with Quadrantally Symmetric Properties Using Vortex Search Algorithm. <i>Journal of Circuits, Systems and Computers</i> , 2020, 29, 2050155.	1.0	13
2251	Energy efficiency and peak load management via CVR and distributed energy storage in active distribution grid. <i>International Transactions on Electrical Energy Systems</i> , 2020, 30, e12224.	1.2	8
2252	A novel metaheuristic model-based approach for accurate online broken bar fault diagnosis in induction motor using unscented Kalman filter and ant lion optimizer. <i>Transactions of the Institute of Measurement and Control</i> , 2020, 42, 1537-1546.	1.1	15
2253	Hybrid PSO-GSA technique for solving dynamic economic emission dispatch problem. <i>Engineering Review</i> , 2020, 40, 96-104.	0.2	1
2254	An Underwater Image Enhancement Algorithm Based on MSR Parameter Optimization. <i>Journal of Marine Science and Engineering</i> , 2020, 8, 741.	1.2	16
2255	Performance Analysis of Tree Seed Algorithm for Small Dimension Optimization Functions. <i>Advances in Electrical and Computer Engineering</i> , 2020, 20, 65-72.	0.5	4
2256	Optimal fuel station arrangement for multiple GEO spacecraft refueling mission. <i>Advances in Space Research</i> , 2020, 66, 1924-1936.	1.2	5
2257	Fuzzy mutation embedded hybrids of gravitational search and Particle Swarm Optimization methods for engineering design problems. <i>Engineering Applications of Artificial Intelligence</i> , 2020, 95, 103847.	4.3	17

#	ARTICLE	IF	CITATIONS
2258	Optimum design of building structures using Tribe-Interior Search Algorithm. Structures, 2020, 28, 1616-1633.	1.7	27
2259	Novel Manta Rays Foraging Optimization Algorithm Based Optimal Control for Grid-Connected PV Energy System. IEEE Access, 2020, 8, 187276-187290.	2.6	38
2260	Allocation of distributed generations in radial distribution systems using adaptive PSO and modified GSA multi-objective optimizations. AEJ - Alexandria Engineering Journal, 2020, 59, 4771-4786.	3.4	35
2261	Multi-area economic dispatch with stochastic wind power using Salp Swarm Algorithm. Array, 2020, 8, 100044.	2.5	17
2262	The value of thermal management control strategies for battery energy storage in grid decarbonization: Issues and recommendations. Journal of Cleaner Production, 2020, 276, 124223.	4.6	35
2263	Review on Breast Cancer Disease Predictive Modelling using Swarm Intelligence. , 2020, , .		2
2264	The Time Series Prediction Algorithm Based on Improved GSA-ELM. , 2020, , .		2
2265	A Novel Spherical Search Based Grey Wolf Optimizer for Optimization Problems. , 2020, , .		1
2266	MTDE: An effective multi-trial vector-based differential evolution algorithm and its applications for engineering design problems. Applied Soft Computing Journal, 2020, 97, 106761.	4.1	133
2267	Energy-Efficient Clustering Routing Protocol for Wireless Sensor Networks Based on Yellow Saddle Goatfish Algorithm. Mathematics, 2020, 8, 1515.	1.1	40
2268	Frequency control of hybrid power system by sine function adapted improved whale optimisation technique. International Journal of Ambient Energy, 2022, 43, 3518-3535.	1.4	10
2269	Newtonian mechanics based hybrid machine learning method of characterizing energy band gap of doped zno semiconductor. Chinese Journal of Physics, 2020, 68, 493-506.	2.0	23
2270	Modified Grey Wolf Optimizer based Maximum Entropy Clustering Algorithm. , 2020, , .		0
2271	Integration of CFA ² FB control scheme with modified shunt active line conditioner (MSALC) connected distribution system for mitigation of harmonics. International Transactions on Electrical Energy Systems, 2020, 30, e12652.	1.2	0
2272	An evaluation of k-means as a local search operator in hybrid memetic group search optimization for data clustering. Natural Computing, 2021, 20, 611-636.	1.8	8
2273	A new artificial bee colony algorithm employing intelligent forager forwarding strategies. Applied Soft Computing Journal, 2020, 96, 106656.	4.1	10
2274	An integrated feedforward-feedback control structure utilizing a simplified global gravitational search algorithm to control nonlinear systems. Sadhana - Academy Proceedings in Engineering Sciences, 2020, 45, 1.	0.8	0
2275	Crow Search Algorithm: Theory, Recent Advances, and Applications. IEEE Access, 2020, 8, 173548-173565.	2.6	118

#	ARTICLE	IF	CITATIONS
2276	An Enhanced Artificial Ecosystem-Based Optimization for Optimal Allocation of Multiple Distributed Generations. <i>IEEE Access</i> , 2020, 8, 178493-178513.	2.6	45
2277	XOR Binary Gravitational Search Algorithm with Repository: Industry 4.0 Applications. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 6451.	1.3	5
2278	Dynamic Gaussian bare-bones fruit fly optimizers with abandonment mechanism: method and analysis. <i>Engineering With Computers</i> , 2022, 38, 743-771.	3.5	59
2279	Stochastic paint optimizer: theory and application in civil engineering. <i>Engineering With Computers</i> , 2022, 38, 1921-1952.	3.5	53
2280	Hybrid Algorithm of Particle Swarm Optimization and Grey Wolf Optimizer for Reservoir Operation Management. <i>Water Resources Management</i> , 2020, 34, 4545-4560.	1.9	29
2281	Training and optimization algorithms. , 2020, , 51-78.		1
2282	Bare-Bones Based Sine Cosine Algorithm for global optimization. <i>Journal of Computational Science</i> , 2020, 47, 101219.	1.5	19
2283	Multi-population following behavior-driven fruit fly optimization: A Markov chain convergence proof and comprehensive analysis. <i>Knowledge-Based Systems</i> , 2020, 210, 106437.	4.0	48
2284	A parameter determination method of unscented transformation and its approximate ability analysis in the precision estimation of nonlinear measurement adjustment. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020, 166, 108065.	2.5	10
2285	Swarm-based chaotic gravitational search algorithm for solving mechanical engineering design problems. <i>World Journal of Engineering</i> , 2020, 17, 97-114.	1.0	39
2286	Grey Wolf Optimizer With a Novel Weighted Distance for Global Optimization. <i>IEEE Access</i> , 2020, 8, 120173-120197.	2.6	22
2287	A comprehensive survey of the Grasshopper optimization algorithm: results, variants, and applications. <i>Neural Computing and Applications</i> , 2020, 32, 15533-15556.	3.2	156
2288	Constrained Multi-Objective Water Evaporation Optimization Algorithm Based on Decomposition With μ -Constraint Handling Technology. <i>IEEE Access</i> , 2020, 8, 130986-131004.	2.6	3
2289	An improved gravitational search algorithm to the hybrid flowshop with unrelated parallel machines scheduling problem. <i>International Journal of Production Research</i> , 2021, 59, 5592-5608.	4.9	8
2290	Embedded chaotic whale survival algorithm for filter wrapper feature selection. <i>Soft Computing</i> , 2020, 24, 12821-12843.	2.1	48
2291	Bladder Boundary Estimation by Gravitational Search Algorithm Using Electrical Impedance Tomography. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020, 69, 9657-9667.	2.4	13
2292	Improved sine cosine algorithm combined with optimal neighborhood and quadratic interpolation strategy. <i>Engineering Applications of Artificial Intelligence</i> , 2020, 94, 103779.	4.3	27
2293	Modified Social Group Optimization—a meta-heuristic algorithm to solve short-term hydrothermal scheduling. <i>Applied Soft Computing Journal</i> , 2020, 95, 106524.	4.1	49

#	ARTICLE	IF	CITATIONS
2295	Implementation of Grey Wolf Optimization (GWO) algorithm to multi-objective loading pattern optimization of a PWR reactor. <i>Annals of Nuclear Energy</i> , 2020, 148, 107703.	0.9	31
2296	Chaotic oppositional sine-cosine method for solving global optimization problems. <i>Engineering With Computers</i> , 2022, 38, 1223-1239.	3.5	53
2297	A Point Cloud Simplification Method Based on Modified Fuzzy C-Means Clustering Algorithm with Feature Information Reserved. <i>Mathematical Problems in Engineering</i> , 2020, 2020, 1-13.	0.6	13
2298	Tunicate swarm Grey Wolf optimization for multi-path routing protocol in IoT assisted WSN networks. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 0, , 1.	3.3	16
2299	Production scheduling problem and solver improvement via integration of the grey wolf optimizer into the augmented Lagrangian relaxation method. <i>SN Applied Sciences</i> , 2020, 2, 1.	1.5	3
2300	Coordinated Control of SSSC Based Controller Using GSA Algorithm. , 2020, , .		0
2301	BMFO-SIG: A Novel Binary Moth Flame Optimizer Algorithm with Sigmoidal Transformation for Combinatorial Unit Commitment and Numerical Optimization Problems. , 2020, 5, 789-826.		5
2302	Shear modulus prediction of embedded pressurized salt layers and pinpointing zones at risk of casing collapse in oil and gas wells. <i>Journal of Applied Geophysics</i> , 2020, 183, 104205.	0.9	24
2303	Sand Control Optimization for Rubiales Field: Trade-Off Between Sand Control, Flow Performance and Mechanical Integrity. , 2020, , .		0
2304	A Chaotic Hybrid Butterfly Optimization Algorithm with Particle Swarm Optimization for High-Dimensional Optimization Problems. <i>Symmetry</i> , 2020, 12, 1800.	1.1	58
2305	Seasons optimization algorithm. <i>Engineering With Computers</i> , 2022, 38, 1845-1865.	3.5	10
2306	Integrated optimal wind-resistant design of super-tall structures with toggle-brace damper systems. <i>Structural Design of Tall and Special Buildings</i> , 2020, 29, e1799.	0.9	7
2307	On the belief universal gravitation (BUG). <i>Computers and Industrial Engineering</i> , 2020, 148, 106685.	3.4	18
2308	Optimization of the Deployment of Relay Nodes in Cellular Networks. <i>IEEE Access</i> , 2020, 8, 136605-136616.	2.6	3
2309	Enhanced Fractional Chaotic Whale Optimization Algorithm for Parameter Identification of Isolated Wind-Diesel Power Systems. <i>IEEE Access</i> , 2020, 8, 140862-140875.	2.6	29
2310	Billiards-inspired optimization algorithm; a new meta-heuristic method. <i>Structures</i> , 2020, 27, 1722-1739.	1.7	64
2311	Optimal Placement and Sizing of Inverter-Based Distributed Generation Units and Shunt Capacitors in Distorted Distribution Systems Using a Hybrid Phasor Particle Swarm Optimization and Gravitational Search Algorithm. <i>Electric Power Components and Systems</i> , 2020, 48, 543-557.	1.0	11
2312	An improved moth-flame optimization algorithm with orthogonal opposition-based learning and modified position updating mechanism of moths for global optimization problems. <i>Applied Intelligence</i> , 2020, 50, 4434-4458.	3.3	29

#	ARTICLE	IF	CITATIONS
2313	A new hybrid SSA-TA: Salp Swarm Algorithm with threshold accepting for band selection in hyperspectral images. Applied Soft Computing Journal, 2020, 95, 106534.	4.1	9
2314	Deep adaptive feature enrichment. Expert Systems With Applications, 2020, 162, 113780.	4.4	3
2315	Integration of multi-objective PSO based feature selection and node centrality for medical datasets. Genomics, 2020, 112, 4370-4384.	1.3	119
2316	Construction Projects Problems Optimization Using PSO and GSA. Applied Mechanics and Materials, 0, 897, 147-151.	0.2	0
2317	Heap-based optimizer inspired by corporate rank hierarchy for global optimization. Expert Systems With Applications, 2020, 161, 113702.	4.4	226
2318	Parameter identification of solar cells and fuel cell using improved social spider algorithm. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2020, ahead-of-print, .	0.5	7
2319	An enhanced adaptive butterfly optimization algorithm rigorously verified on engineering problems and implemented to ISAR image motion compensation. Engineering Computations, 2020, 37, 3543-3566.	0.7	10
2320	A hybrid constriction coefficient-based particle swarm optimization and gravitational search algorithm for training multi-layer perceptron. International Journal of Intelligent Computing and Cybernetics, 2020, 13, 129-165.	1.6	17
2321	Manufacturing and Production Planning via Fish Swarm Optimization Method and Its Hybridizations. , 2020, , .		0
2322	An efficient equilibrium optimizer with mutation strategy for numerical optimization. Applied Soft Computing Journal, 2020, 96, 106542.	4.1	73
2323	Short-term electricity price and load forecasting in isolated power grids based on composite neural network and gravitational search optimization algorithm. Applied Energy, 2020, 277, 115503.	5.1	122
2324	Hybrid adaptive simplified human learning optimization algorithms for supply chain network design problem with possibility of direct shipment. Applied Soft Computing Journal, 2020, 96, 106594.	4.1	14
2325	Multi objective optimization of a tri-reforming process with the maximization of H2 production and minimization of CO2 emission & power loss. International Journal of Hydrogen Energy, 2020, 45, 22480-22491.	3.8	13
2326	Design of Fractional Particle Swarm Optimization Gravitational Search Algorithm for Optimal Reactive Power Dispatch Problems. IEEE Access, 2020, 8, 146785-146806.	2.6	39
2327	Designing Uncorrelated Address Constrains for DNA Storage by DMVO Algorithm. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2022, 19, 866-877.	1.9	43
2328	Gene selection for cancer types classification using novel hybrid metaheuristics approach. Swarm and Evolutionary Computation, 2020, 54, 100661.	4.5	54
2329	Improved Deep Neural Network for OFDM Signal Recognition Using Hybrid Grey Wolf Optimization. IEEE Access, 2020, 8, 133622-133632.	2.6	9
2330	Massive MIMO perspective: improved sea lion for optimal antenna selection. Evolutionary Intelligence, 2021, 14, 1831-1845.	2.3	4

#	ARTICLE	IF	CITATIONS
2331	A HGGSA Approach to Beam Forming for DOA Estimation in Smart Antenna Arrays. Wireless Personal Communications, 2020, 115, 2391-2413.	1.8	1
2332	A Co-Scheduling Problem of Ship Lift and Ship Lock at the Three Gorges Dam. IEEE Access, 2020, 8, 132893-132910.	2.6	13
2333	Optimal Transient Search Algorithm-Based PI Controllers for Enhancing Low Voltage Ride-Through Ability of Grid-Linked PMSG-Based Wind Turbine. Electronics (Switzerland), 2020, 9, 1807.	1.8	24
2334	An Efficient Automatic Intrusion Detection in Cloud Using Optimized Fuzzy Inference System. International Journal of Information Security and Privacy, 2020, 14, 22-41.	0.6	2
2335	Momentum search algorithm: a new meta-heuristic optimization algorithm inspired by momentum conservation law. SN Applied Sciences, 2020, 2, 1.	1.5	61
2336	An adaptive resistance and stamina strategy-based dragonfly algorithm for solving engineering optimization problems. Engineering Computations, 2021, 38, 2228-2251.	0.7	16
2337	Double Side Optimal Bidding Strategy In Deregulated Electricity Market Using Krill Herd Algorithm. , 2020, , .		0
2338	Introducing Ulimisana Optimization Algorithm Based on Ubuntu Philosophy. IEEE Access, 2020, 8, 179244-179258.	2.6	2
2339	Modified Particle Swarm Optimization With Effective Guides. IEEE Access, 2020, 8, 188699-188725.	2.6	29
2340	Mayfly in Harmony: A New Hybrid Meta-Heuristic Feature Selection Algorithm. IEEE Access, 2020, 8, 195929-195945.	2.6	72
2341	Combinatorial Test Suites Generation Strategy Utilizing the Whale Optimization Algorithm. IEEE Access, 2020, 8, 192288-192303.	2.6	15
2342	Optimal Sizing of Energy Storage Based on Improved Fruit Fly Algorithm. , 2020, , .		1
2343	A Crow Particle Swarm Optimization Algorithm with Deep Neural Network (CPSO-DNN) for High Dimensional Data Analysis. , 2020, , .		4
2344	Procurement of electrical energy and operating reserve ancillary services in wind incorporated deregulated system considering demand response. IET Generation, Transmission and Distribution, 2020, 14, 3006-3021.	1.4	2
2345	Optimal Scheduling of Multi-energy Hub System Based on Differential QPSO Algorithm. , 2020, , .		2
2346	A Spring Search Algorithm Applied to Engineering Optimization Problems. Applied Sciences (Switzerland), 2020, 10, 6173.	1.3	105
2347	Mendelian evolutionary theory optimization algorithm. Soft Computing, 2020, 24, 14345-14390.	2.1	27
2348	Evolving CNN-LSTM Models for Time Series Prediction Using Enhanced Grey Wolf Optimizer. IEEE Access, 2020, 8, 161519-161541.	2.6	83

#	ARTICLE	IF	CITATIONS
2349	Hybrid Henry Gas Solubility Optimization Algorithm Based on the Harris Hawk Optimization. IEEE Access, 2020, 8, 144665-144692.	2.6	18
2350	Electronically coupled photovoltaic system with grey wolf optimizer enabled <scp>DC</scp> â€link voltage control loop. International Transactions on Electrical Energy Systems, 2020, 30, e12648.	1.2	1
2351	Quantum-inspired binary gravitational search algorithm to recognize the facial expressions. International Journal of Modern Physics C, 2020, 31, 2050138.	0.8	14
2352	Parameter estimation of Hammerstein systems based on the gravitational search algorithm. , 2020, , .		1
2353	A Temporal User Attribute-Based Algorithm to Detect Communities in Online Social Networks. IEEE Access, 2020, 8, 154363-154381.	2.6	3
2354	EHHM: Electrical Harmony Based Hybrid Meta-Heuristic for Feature Selection. IEEE Access, 2020, 8, 158125-158141.	2.6	22
2355	A New â€œDoctor and Patientâ€-Optimization Algorithm: An Application to Energy Commitment Problem. Applied Sciences (Switzerland), 2020, 10, 5791.	1.3	42
2356	Fine-Tuning Temperatures in Restricted Boltzmann Machines Using Meta-Heuristic Optimization. , 2020, , .		0
2357	Hybrid PSO Algorithm with Adaptive Step Search in Noisy and Noise-free Environments. , 2020, , .		0
2358	Comparison of Circular Symmetric Low-Pass Digital IIR Filter Design Using Evolutionary Computation Techniques. Mathematics, 2020, 8, 1226.	1.1	4
2359	Dynamic Group-Based Cooperative Optimization Algorithm. IEEE Access, 2020, 8, 148378-148403.	2.6	58
2360	An Improved Grey Wolf Optimizer for a Supplier Selection and Order Quantity Allocation Problem. Mathematics, 2020, 8, 1457.	1.1	5
2361	A Fuzzy Hyper-Heuristic Approach for the 0-1 Knapsack Problem. , 2020, , .		3
2362	Chaotic Dynamically Dimensioned Search Algorithm. IEEE Access, 2020, 8, 152474-152499.	2.6	3
2363	A Hybrid Improved Dragonfly Algorithm for Feature Selection. IEEE Access, 2020, 8, 155619-155629.	2.6	26
2364	Low Carbon Multi-Objective Unit Commitment Integrating Renewable Generations. IEEE Access, 2020, 8, 207768-207778.	2.6	8
2365	Modified Harris Hawks Optimization Algorithm for Global Optimization Problems. Arabian Journal for Science and Engineering, 2020, 45, 10949-10974.	1.7	39
2366	A Hybrid Spherical Evolution and Particle Swarm Optimization Algorithm. , 2020, , .		2

#	ARTICLE	IF	CITATIONS
2367	Hybridization of Grey Wolf Optimizer and Crow Search Algorithm Based on Dynamic Fuzzy Learning Strategy for Large-Scale Optimization. IEEE Access, 2020, 8, 161593-161611.	2.6	13
2368	An Efficient Binary Equilibrium Optimizer Algorithm for Feature Selection. IEEE Access, 2020, 8, 140936-140963.	2.6	73
2369	Heuristic Optimization for Robust Resource-Constrained Flexible Project Scheduling Problem. IEEE Access, 2020, 8, 142269-142281.	2.6	4
2370	Optimal reactive power dispatch using \hat{I} -social mimic optimization (\hat{I} -SMO). Journal of Intelligent and Fuzzy Systems, 2020, , 1-15.	0.8	5
2371	A modified incremental gravitational search algorithm for short-term hydrothermal scheduling with variable head. Engineering Applications of Artificial Intelligence, 2020, 95, 103845.	4.3	8
2372	Fractional PSO-GSA Algorithm Approach to Solve Optimal Reactive Power Dispatch Problems With Uncertainty of Renewable Energy Resources. IEEE Access, 2020, 8, 215399-215413.	2.6	22
2373	Immune Plasma Algorithm: A Novel Meta-Heuristic for Optimization Problems. IEEE Access, 2020, 8, 220227-220245.	2.6	28
2374	Accuracy Versus Simplification in an Approximate Logic Neural Model. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 5194-5207.	7.2	9
2375	Swarm-Based Design of Proportional Integral and Derivative Controllers Using a Compromise Cost Function: An Arduino Temperature Laboratory Case Study. Algorithms, 2020, 13, 315.	1.2	17
2376	Phasmatodea population evolution algorithm and its application in length-changeable incremental extreme learning machine. , 2020, , .		26
2377	Optimization of fuzzy classifier parameters with a combination of gravitational search algorithm and shuffled frog leaping algorithm. Journal of Physics: Conference Series, 2020, 1611, 012068.	0.3	1
2378	Modified gravitational search algorithm and its application to structural damage detection. Journal of Physics: Conference Series, 2020, 1635, 012018.	0.3	0
2379	Application of Gravitational Search Algorithm on the Modified Compartmental Absorption and Transit Model for Predicting Oral Drug Absorption. , 2020, , .		0
2380	<i>In Vivo</i> Computing Strategies for Tumor Sensitization and Targeting. IEEE Transactions on Cybernetics, 2022, 52, 4970-4980.	6.2	8
2381	Absolute versus stochastic stability of the artificial bee colony in synchronous and sequential modes. Natural Computing, 2020, 20, 443.	1.8	1
2382	Autonomous Navigation of a Solar-Powered UAV for Secure Communication in Urban Environments with Eavesdropping Avoidance. Future Internet, 2020, 12, 170.	2.4	7
2383	System Identification of the PEMFCs based on Balanced Manta-Ray Foraging Optimization algorithm. Energy Reports, 2020, 6, 2887-2896.	2.5	18
2384	Gravitational Search Algorithm for Optimal Tuning of controller parameters in AVR system. , 2020, , .		4

#	ARTICLE	IF	CITATIONS
2385	Quantum-Based Analytical Techniques on the Tackling of Well Placement Optimization. Applied Sciences (Switzerland), 2020, 10, 7000.	1.3	8
2386	DM: Dehghani Method for Modifying Optimization Algorithms. Applied Sciences (Switzerland), 2020, 10, 7683.	1.3	28
2387	Metaheuristic Optimization of Power and Energy Systems: Underlying Principles and Main Issues of the "Rush to Heuristics". Energies, 2020, 13, 5097.	1.6	30
2388	A Hybrid Spherical Search and Sine Cosine Algorithm. , 2020, , .		2
2389	A Survey on Soft Computing Techniques for Spectrum Sensing in a Cognitive Radio Network. SN Computer Science, 2020, 1, 1.	2.3	12
2390	An Adaptive Chaotic Sine Cosine Algorithm for Constrained and Unconstrained Optimization. Complexity, 2020, 2020, 1-36.	0.9	31
2391	Advanced hybrid intelligent model and algorithm for de-regulated electricity market. Australian Journal of Electrical and Electronics Engineering, 2020, 17, 36-46.	0.7	2
2392	Late Acceptance Hill Climbing Based Social Ski Driver Algorithm for Feature Selection. IEEE Access, 2020, 8, 75393-75408.	2.6	47
2393	Improved Whale Optimization Algorithm Based on Nonlinear Adaptive Weight and Golden Sine Operator. IEEE Access, 2020, 8, 77013-77048.	2.6	48
2394	Dynamic differential annealed optimization: New metaheuristic optimization algorithm for engineering applications. Applied Soft Computing Journal, 2020, 93, 106392.	4.1	82
2395	Gravitational search algorithm: A novel approach for structural test path optimization. Journal of Interdisciplinary Mathematics, 2020, 23, 471-480.	0.4	9
2396	TDSD: A New Evolutionary Algorithm Based on Triple Distinct Search Dynamics. IEEE Access, 2020, 8, 76752-76764.	2.6	16
2397	An extensive review of computational intelligence-based optimization algorithms: trends and applications. Soft Computing, 2020, 24, 16519-16549.	2.1	21
2398	Intelligent frequency control in microgrid: Fractional order fuzzy PID controller. Journal of Intelligent and Fuzzy Systems, 2020, 39, 195-212.	0.8	12
2399	Hybrid metaheuristic algorithm using butterfly and flower pollination base on mutualism mechanism for global optimization problems. Engineering With Computers, 2021, 37, 3665-3698.	3.5	51
2400	Improved teaching-learning based optimization algorithm using Lyapunov stability analysis. Journal of Ambient Intelligence and Humanized Computing, 2022, 13, 3609-3618.	3.3	5
2401	Gravitational search algorithm-based optimization of hybrid wind and solar renewable energy system. Computational Intelligence, 2022, 38, 1106-1132.	2.1	10
2402	Smell Bees Optimization algorithm for continuous engineering problem. Asian Journal of Civil Engineering, 2020, 21, 925-946.	0.8	7

#	ARTICLE	IF	CITATIONS
2403	A Self-Adaption Butterfly Optimization Algorithm for Numerical Optimization Problems. IEEE Access, 2020, 8, 88026-88041.	2.6	35
2404	A Hybrid k-Means Cuckoo Search Algorithm Applied to the Counterfort Retaining Walls Problem. Mathematics, 2020, 8, 555.	1.1	32
2405	Introducing clustering based population in Binary Gravitational Search Algorithm for Feature Selection. Applied Soft Computing Journal, 2020, 93, 106341.	4.1	36
2406	Green communication in IoT networks using a hybrid optimization algorithm. Computer Communications, 2020, 159, 97-107.	3.1	103
2407	A novel and effective optimization algorithm for global optimization and its engineering applications: Turbulent Flow of Water-based Optimization (TFWO). Engineering Applications of Artificial Intelligence, 2020, 92, 103666.	4.3	88
2408	A Global Gravitational Search Algorithm to estimate bladder size using Electrical Impedance Tomography. , 2020, , .		1
2409	Aggregated Demand Response Scheduling in Competitive Market Considering Load behavior through Fuzzy Intelligence. IEEE Transactions on Industry Applications, 2020, , 1-1.	3.3	10
2410	Student psychology based optimization algorithm: A new population based optimization algorithm for solving optimization problems. Advances in Engineering Software, 2020, 146, 102804.	1.8	150
2411	Multi-objective meta-heuristic optimization in intelligent control: A survey on the controller tuning problem. Applied Soft Computing Journal, 2020, 93, 106342.	4.1	69
2412	Fast initialization methods for the nonconvex economic dispatch problem. Energy, 2020, 201, 117635.	4.5	21
2413	Boosted hunting-based fruit fly optimization and advances in real-world problems. Expert Systems With Applications, 2020, 159, 113502.	4.4	26
2414	A blind separation algorithm for heterogeneous mixed signals. Annales Des Telecommunications/Annals of Telecommunications, 2020, 75, 729-737.	1.6	1
2415	Efficient parallel and fast convergence chaotic Jaya algorithms. Swarm and Evolutionary Computation, 2020, 56, 100698.	4.5	13
2416	Parameter Optimization of Support Vector Regression Using Henry Gas Solubility Optimization Algorithm. IEEE Access, 2020, 8, 88633-88642.	2.6	34
2417	Optimal Design of RF Integrated Inductors via Differential Evolution Algorithm. , 2020, , .		6
2418	Symbiotic Organism Search of a NonLinear Kalman Filter for Induction Motors Sensor-less Control. , 2020, , .		0
2419	Ameliorated moth-flame algorithm and its application for modeling of silicon content in liquid iron of blast furnace based fast learning network. Applied Soft Computing Journal, 2020, 94, 106418.	4.1	19
2420	A memory-based Grey Wolf Optimizer for global optimization tasks. Applied Soft Computing Journal, 2020, 93, 106367.	4.1	115

#	ARTICLE	IF	CITATIONS
2421	DUPLICATE: Advanced Orthogonal Moth Flame Optimization with Broydenâ€™ Fletcherâ€™ Goldfarbâ€™ Shanno Algorithm: Framework and Real-world Problems. Expert Systems With Applications: X, 2020, , 100032.	4.6	1
2422	A Novel Multimodal Collaborative Drone-Assisted VANET Networking Model. IEEE Transactions on Wireless Communications, 2020, 19, 4919-4933.	6.1	70
2423	Sensitivity-Based Change Detection for Dynamic Constrained Optimization. IEEE Access, 2020, 8, 103900-103912.	2.6	5
2424	Optimization of constructal T-shaped porous fins under convective environment using Swarm Intelligence Algorithms. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2020, 234, 2100-2113.	0.7	1
2425	Human urbanization algorithm: A novel metaheuristic approach. Mathematics and Computers in Simulation, 2020, 178, 1-15.	2.4	28
2426	LÃ©vy flight distribution: A new metaheuristic algorithm for solving engineering optimization problems. Engineering Applications of Artificial Intelligence, 2020, 94, 103731.	4.3	296
2427	A new Kho-Kho optimization Algorithm: An application to solve combined emission economic dispatch and combined heat and power economic dispatch problem. Engineering Applications of Artificial Intelligence, 2020, 94, 103763.	4.3	88
2428	Optimization Methodologies and Testing on Standard Benchmark Functions of Load Frequency Control for Interconnected Multi Area Power System in Smart Grids. Mathematics, 2020, 8, 980.	1.1	14
2429	Evolutionary algorithm based selective harmonic elimination for three-phase cascaded H-bridge multilevel inverters with optimized input sources. Journal of Power Electronics, 2020, 20, 1172-1183.	0.9	8
2430	Quantum-like mutation-induced dragonfly-inspired optimization approach. Mathematics and Computers in Simulation, 2020, 178, 259-289.	2.4	29
2431	Reference Evapotranspiration Modeling Using New Heuristic Methods. Entropy, 2020, 22, 547.	1.1	30
2432	Hybrid frameworks for flexible job shop scheduling. International Journal of Advanced Manufacturing Technology, 2020, 108, 1563-1585.	1.5	4
2433	The use of local information sharing on soccer game optimization. Soft Computing, 2020, 24, 18057-18072.	2.1	1
2434	A multi-objective artificial butterfly optimization approach for feature selection. Applied Soft Computing Journal, 2020, 94, 106442.	4.1	26
2435	Levy-based antlion-inspired optimizers with orthogonal learning scheme. Engineering With Computers, 2022, 38, 397-418.	3.5	38
2436	Enhanced Crow Search Algorithm for Feature Selection. Expert Systems With Applications, 2020, 159, 113572.	4.4	57
2437	Optimizing hyper-parameters of neural networks with swarm intelligence: A novel framework for credit scoring. PLoS ONE, 2020, 15, e0234254.	1.1	10
2438	A Comprehensive Survey of the Harmony Search Algorithm in Clustering Applications. Applied Sciences (Switzerland), 2020, 10, 3827.	1.3	98

#	ARTICLE	IF	CITATIONS
2439	Advanced orthogonal moth flame optimization with Broydenâ€™Fletcherâ€™Goldfarbâ€™Shanno algorithm: Framework and real-world problems. <i>Expert Systems With Applications</i> , 2020, 159, 113617.	4.4	51
2440	A Hybrid Multi-Step Probability Selection Particle Swarm Optimization with Dynamic Chaotic Inertial Weight and Acceleration Coefficients for Numerical Function Optimization. <i>Symmetry</i> , 2020, 12, 922.	1.1	16
2441	A diffusion algorithm based on P systems for continuous global optimization. <i>Journal of Computational Science</i> , 2020, 44, 101112.	1.5	7
2442	Optimum Design of an Adaptive Fuzzy Controller as Active Suspension for a Quarter-Car Model. <i>IETE Journal of Research</i> , 2022, 68, 3638-3646.	1.8	6
2443	A comprehensive review on water cycle algorithm and its applications. <i>Neural Computing and Applications</i> , 2020, 32, 17433-17488.	3.2	38
2444	Nature-Inspired Optimization Algorithms for the 3D Reconstruction of Porous Media. <i>Algorithms</i> , 2020, 13, 65.	1.2	3
2445	Implementing novel hybrid models to improve indirect measurement of the daily soil temperature: Elman neural network coupled with gravitational search algorithm and ant colony optimization. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020, 165, 108127.	2.5	30
2446	Hybrid of Harmony Search Algorithm and Ring Theory-Based Evolutionary Algorithm for Feature Selection. <i>IEEE Access</i> , 2020, 8, 102629-102645.	2.6	36
2447	Stability analysis of the human behavior-based particle swarm optimization without stagnation assumption. <i>Expert Systems With Applications</i> , 2020, 159, 113638.	4.4	8
2448	Marine Predators Algorithm: A nature-inspired metaheuristic. <i>Expert Systems With Applications</i> , 2020, 152, 113377.	4.4	1,239
2449	A survey of evolutionary computation for association rule mining. <i>Information Sciences</i> , 2020, 524, 318-352.	4.0	127
2450	Multi-verse optimizer algorithm: a comprehensive survey of its results, variants, and applications. <i>Neural Computing and Applications</i> , 2020, 32, 12381-12401.	3.2	144
2451	A comprehensive review of moth-flame optimisation: variants, hybrids, and applications. <i>Journal of Experimental and Theoretical Artificial Intelligence</i> , 2020, 32, 705-725.	1.8	59
2452	A modified particle swarm optimization using adaptive strategy. <i>Expert Systems With Applications</i> , 2020, 152, 113353.	4.4	88
2453	A new whale optimisation algorithm based on self-adapting parameter adjustment and mix mutation strategy. <i>International Journal of Computer Integrated Manufacturing</i> , 2020, 33, 949-961.	2.9	7
2454	An Improved Atom Search Optimization With Cellular Automata, a Lévy Flight and an Adaptive Weight Strategy. <i>IEEE Access</i> , 2020, 8, 49137-49159.	2.6	12
2455	A novel quasi-reflected Harris hawks optimization algorithm for global optimization problems. <i>Soft Computing</i> , 2020, 24, 14825-14843.	2.1	76
2456	Parameters identification of photovoltaic cell models using enhanced exploratory salp chains-based approach. <i>Energy</i> , 2020, 198, 117333.	4.5	106

#	ARTICLE	IF	CITATIONS
2457	Political Optimizer: A novel socio-inspired meta-heuristic for global optimization. Knowledge-Based Systems, 2020, 195, 105709.	4.0	311
2458	Simulation and modeling of an improved multi-verse optimization algorithm for QoS-aware web service composition with service level agreements in the cloud environments. Simulation Modelling Practice and Theory, 2020, 103, 102090.	2.2	26
2459	Binary atom search optimisation approaches for feature selection. Connection Science, 2020, 32, 406-430.	1.8	44
2460	Selective Opposition based Grey Wolf Optimization. Expert Systems With Applications, 2020, 151, 113389.	4.4	174
2461	Wingsuit Flying Searchâ€”A Novel Global Optimization Algorithm. IEEE Access, 2020, 8, 53883-53900.	2.6	45
2462	Optimal Reactive Power Dispatch Using Chaotic Bat Algorithm. IEEE Access, 2020, 8, 65830-65867.	2.6	85
2463	Water strider algorithm: A new metaheuristic and applications. Structures, 2020, 25, 520-541.	1.7	112
2464	Rationalized Sine Cosine Optimization With Efficient Searching Patterns. IEEE Access, 2020, 8, 61471-61490.	2.6	29
2465	Review of nature and biologically inspired metaheuristics for greenhouse environment control. Transactions of the Institute of Measurement and Control, 2020, 42, 2338-2358.	1.1	19
2466	Dragonfly algorithm: a comprehensive review and applications. Neural Computing and Applications, 2020, 32, 16625-16646.	3.2	95
2467	Hybrid feature selectionâ€”artificial intelligenceâ€”gravitational search algorithm technique for automated transformer fault determination based on dissolved gas analysis. IET Generation, Transmission and Distribution, 2020, 14, 1575-1582.	1.4	20
2468	An Improved Crow Search Algorithm Based on Spiral Search Mechanism for Solving Numerical and Engineering Optimization Problems. IEEE Access, 2020, , 1-1.	2.6	19
2469	Differential evolution based global best algorithm: an efficient optimizer for solving constrained and unconstrained optimization problems. SN Applied Sciences, 2020, 2, 1.	1.5	1
2470	Characteristic Analysis and Optimal Regulation of Primary Frequency Regulation Condition in Low Water Head Area Based on Hydraulic-Mechanical-Electrical Coupling Model of Pumped Storage Unit. Complexity, 2020, 2020, 1-17.	0.9	9
2471	New hybrid method for attack detection using combination of evolutionary algorithms, SVM, and ANN. Computer Networks, 2020, 173, 107168.	3.2	50
2472	An improved gravitational search algorithm for solving an electromagnetic design problem. Journal of Computational Electronics, 2020, 19, 773-779.	1.3	4
2473	Nature-inspired optimization algorithms: Challenges and open problems. Journal of Computational Science, 2020, 46, 101104.	1.5	203
2474	A better balance in metaheuristic algorithms: Does it exist?. Swarm and Evolutionary Computation, 2020, 54, 100671.	4.5	165

#	ARTICLE	IF	CITATIONS
2475	Adolescent Identity Search Algorithm (AISA): A novel metaheuristic approach for solving optimization problems. <i>Applied Soft Computing Journal</i> , 2020, 95, 106503.	4.1	54
2476	Improved Type2-NPCM Fuzzy Clustering Algorithm Based on Adaptive Particle Swarm Optimization for Takagi-Sugeno Fuzzy Modeling Identification. <i>International Journal of Fuzzy Systems</i> , 2020, 22, 2011-2024.	2.3	6
2477	Optimization Algorithms for Detection of Social Interactions. <i>Algorithms</i> , 2020, 13, 139.	1.2	7
2478	A Competitive Memory Paradigm for Multimodal Optimization Driven by Clustering and Chaos. <i>Mathematics</i> , 2020, 8, 934.	1.1	0
2479	Gravitational search algorithm based on multiple adaptive constraint strategy. <i>Computing (Vienna/New York)</i> , 2020, 102, 2117-2157.	3.2	4
2480	A S fuzzy model identification approach based on evolving MIT2-FCRM and WOS-ELM algorithm. <i>Engineering Applications of Artificial Intelligence</i> , 2020, 92, 103653.	4.3	9
2481	An Empirical Survey on Load Balancing: A Nature-Inspired Approach. , 0, , .		0
2482	Improved Whale Optimization Algorithm applied to design PID plus second-order derivative controller for automatic voltage regulator system. <i>Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers, Series A/Chung-kuo Kung Ch'eng Hsueh K'an</i> , 2020, 43, 541-552.	0.6	37
2483	Numerical function optimization by conditionalized PSO algorithm. <i>Journal of Intelligent and Fuzzy Systems</i> , 2020, 39, 3275-3295.	0.8	0
2484	Selection scheme sensitivity for a hybrid Salp Swarm Algorithm: analysis and applications. <i>Engineering With Computers</i> , 2022, 38, 1149-1175.	3.5	29
2485	Inverse calculation of demolition robot based on gravitational search algorithm and differential evolution neural network. <i>International Journal of Advanced Robotic Systems</i> , 2020, 17, 172988142092529.	1.3	4
2486	Gradient-based optimizer: A new metaheuristic optimization algorithm. <i>Information Sciences</i> , 2020, 540, 131-159.	4.0	462
2487	TSASC: tree-seed algorithm with sine-cosine enhancement for continuous optimization problems. <i>Soft Computing</i> , 2020, 24, 18627-18646.	2.1	7
2488	A Novel PSOS-CGSA Method for State Estimation in Unbalanced DG-Integrated Distribution Systems. <i>IEEE Access</i> , 2020, 8, 113219-113229.	2.6	14
2489	An Improved Dragonfly Algorithm With Higher Exploitation Capability to Optimize the Design of Hybrid Power Active Filter. <i>IEEE Access</i> , 2020, 8, 155020-155038.	2.6	3
2490	Classification detection of saccharin jujube based on hyperspectral imaging technology. <i>Journal of Food Processing and Preservation</i> , 2020, 44, e14591.	0.9	14
2491	Settings-Free Hybrid Metaheuristic General Optimization Methods. <i>Mathematics</i> , 2020, 8, 1092.	1.1	4
2492	Improved Cuckoo Search algorithmic variants for constrained nonlinear optimization. <i>Advances in Engineering Software</i> , 2020, 149, 102865.	1.8	32

#	ARTICLE	IF	CITATIONS
2493	TIGER Algorithm. , 2020, , .		3
2494	Comprehensive Taxonomies of Nature- and Bio-inspired Optimization: Inspiration Versus Algorithmic Behavior, Critical Analysis Recommendations. Cognitive Computation, 2020, 12, 897-939.	3.6	125
2495	Search and rescue optimization algorithm: A new optimization method for solving constrained engineering optimization problems. Expert Systems With Applications, 2020, 161, 113698.	4.4	113
2496	Transient search optimization: a new meta-heuristic optimization algorithm. Applied Intelligence, 2020, 50, 3926-3941.	3.3	105
2497	A new hierarchical multi group particle swarm optimization with different task allocations inspired by holonic multi agent systems. Expert Systems With Applications, 2020, 149, 113292.	4.4	22
2498	Balancing composite motion optimization. Information Sciences, 2020, 520, 250-270.	4.0	106
2499	Efficient hybrid algorithm based on moth search and fireworks algorithm for solving numerical and constrained engineering optimization problems. Journal of Supercomputing, 2020, 76, 9404-9429.	2.4	24
2500	Development of fuzzy-GMDH model optimized by GSA to predict rock tensile strength based on experimental datasets. Neural Computing and Applications, 2020, 32, 14047-14067.	3.2	31
2501	Efficient meta-heuristic approaches in solving minimal exposure path problem for heterogeneous wireless multimedia sensor networks in internet of things. Applied Intelligence, 2020, 50, 1889-1907.	3.3	8
2502	A Novel Bio-Inspired Deep Learning Approach for Liver Cancer Diagnosis. Information (Switzerland), 2020, 11, 80.	1.7	25
2503	A new hybrid chaotic atom search optimization based on tree-seed algorithm and Levy flight for solving optimization problems. Engineering With Computers, 2021, 37, 3079-3122.	3.5	68
2504	Optimization of complex nonlinear systems using genetic algorithm. International Journal of Information Technology (Singapore), 2021, 13, 1913-1925.	1.8	12
2505	Intelligent Fractional-Order-Based Centralized Frequency Controller for Microgrid. IETE Journal of Research, 2022, 68, 2848-2862.	1.8	24
2506	Recent Advances on Artificial Intelligence in Cognitive Radio Networks. International Journal of Wireless Networks and Broadband Technologies, 2020, 9, 27-42.	1.0	3
2507	The feedback artificial tree (FAT) algorithm. Soft Computing, 2020, 24, 13413-13440.	2.1	25
2508	Adaptive inertia weight Bat algorithm with Sugeno-Function fuzzy search. Applied Soft Computing Journal, 2020, 90, 106159.	4.1	52
2509	A novel intrusion detection system based on an optimal hybrid kernel extreme learning machine. Knowledge-Based Systems, 2020, 195, 105648.	4.0	84
2510	A Gravitational Search Algorithm With Chaotic Neural Oscillators. IEEE Access, 2020, 8, 25938-25948.	2.6	34

#	ARTICLE	IF	CITATIONS
2511	Tunicate Swarm Algorithm: A new bio-inspired based metaheuristic paradigm for global optimization. <i>Engineering Applications of Artificial Intelligence</i> , 2020, 90, 103541.	4.3	738
2512	Is the Vehicle Routing Problem Dead? An Overview Through Bioinspired Perspective and a Prospect of Opportunities. <i>Springer Tracts in Nature-inspired Computing</i> , 2020, , 57-84.	1.2	16
2513	Moth Flame Optimization: Developments and Challenges up to 2020. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 465-488.	0.5	0
2514	A fuzzy adaptive gravitational search algorithm for two-dimensional multilevel thresholding image segmentation. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2020, 11, 4983-4994.	3.3	16
2515	A density-core-based clustering algorithm with local resultant force. <i>Soft Computing</i> , 2020, 24, 6571-6590.	2.1	7
2516	A novel hybrid particle swarm optimization and gravitational search algorithm for multi-objective optimization of text mining. <i>Applied Soft Computing Journal</i> , 2020, 90, 106189.	4.1	26
2517	Sine cosine grey wolf optimizer to solve engineering design problems. <i>Engineering With Computers</i> , 2021, 37, 3123-3149.	3.5	57
2518	Chimp optimization algorithm. <i>Expert Systems With Applications</i> , 2020, 149, 113338.	4.4	612
2519	Design of fuzzy PI controller for brushless DC motor based on PSO&GSA algorithm. <i>Systems Science and Control Engineering</i> , 2020, 8, 67-77.	1.8	23
2520	An improved volleyball premier league algorithm based on sine cosine algorithm for global optimization problem. <i>Engineering With Computers</i> , 2021, 37, 2633-2662.	3.5	14
2521	Modified hybrid bat algorithm with genetic crossover operation and smart inertia weight for multilevel image segmentation. <i>Applied Soft Computing Journal</i> , 2020, 90, 106157.	4.1	45
2522	Fuzzy reliability analysis of nanocomposite ZnO beams using hybrid analytical-intelligent method. <i>Engineering With Computers</i> , 2021, 37, 2575-2590.	3.5	19
2523	Possibilistic-probabilistic self-scheduling of PEVAggregator for participation in spinning reserve market considering uncertain DRPs. <i>Energy</i> , 2020, 196, 117108.	4.5	8
2524	Self-Tuning fuzzy controller for sun-tracker system using Gray Wolf Optimization (GWO) technique. <i>ISA Transactions</i> , 2020, 101, 50-59.	3.1	20
2525	Application of metaheuristic algorithms in optimum thermal design analysis of a rectangular porous fin subjected to both insulated and convective tip conditions. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2020, 234, 1175-1188.	0.8	4
2526	A Modified Moth Swarm Algorithm-Based Hybrid Fuzzy PD&PI Controller for Frequency Regulation of Distributed Power Generation System with Electric Vehicle. <i>Journal of Control, Automation and Electrical Systems</i> , 2020, 31, 675-692.	1.2	26
2527	Truss optimization using eigenvectors of the covariance matrix. <i>Engineering With Computers</i> , 2021, 37, 2207.	3.5	7
2528	A Review of Quantum-Inspired Metaheuristics: Going From Classical Computers to Real Quantum Computers. <i>IEEE Access</i> , 2020, 8, 814-838.	2.6	52

#	ARTICLE	IF	CITATIONS
2529	A gravitational density-based mass sharing method for imbalanced data classification. SN Applied Sciences, 2020, 2, 1.	1.5	3
2530	Comparison of particle swarm optimization variants with fuzzy dynamic parameter adaptation for modular granular neural networks for human recognition. Journal of Intelligent and Fuzzy Systems, 2020, 38, 3229-3252.	0.8	59
2531	Population Based Techniques for Solving the Student Project Allocation Problem. International Journal of Applied Metaheuristic Computing, 2020, 11, 192-207.	0.5	3
2532	An improved whale optimization algorithm with armed force program and strategic adjustment. Applied Mathematical Modelling, 2020, 81, 603-623.	2.2	40
2533	Refraction-learning-based whale optimization algorithm for high-dimensional problems and parameter estimation of PV model. Engineering Applications of Artificial Intelligence, 2020, 89, 103457.	4.3	72
2534	Receiving More Accurate Predictions for Longitudinal Dispersion Coefficients in Water Pipelines: Training Group Method of Data Handling Using Extreme Learning Machine Conceptions. Water Resources Management, 2020, 34, 529-561.	1.9	140
2535	Using gravitational search algorithm enhanced by fuzzy for resource allocation in cloud computing environments. SN Applied Sciences, 2020, 2, 1.	1.5	16
2536	Evolutionary tuning of filters coefficients for binaural audio equalization. Applied Acoustics, 2020, 163, 107204.	1.7	7
2537	Improved Grasshopper Algorithm Based on Gravity Search Operator and Pigeon Colony Landmark Operator. IEEE Access, 2020, 8, 22203-22224.	2.6	12
2538	Altered mineral segmentation in thin sections using an incremental-dynamic clustering algorithm. Engineering Applications of Artificial Intelligence, 2020, 90, 103466.	4.3	11
2539	CEEMD-subset-OASVR-GRNN for ozone forecasting: Xiamen and Harbin as cases. Atmospheric Pollution Research, 2020, 11, 744-754.	1.8	11
2540	Chaos-based Vortex Search algorithm for solving inverse kinematics problem of serial robot manipulators with offset wrist. Applied Soft Computing Journal, 2020, 89, 106074.	4.1	27
2541	Output Voltage Control of BESS Inverter in Stand-Alone Micro-Grid Based on Expanded Inverse Model. IEEE Access, 2020, 8, 3781-3791.	2.6	5
2542	Modified sine cosine algorithm-based fuzzy-aided PID controller for automatic generation control of multiarea power systems. Soft Computing, 2020, 24, 12919-12936.	2.1	42
2543	A Novel Hierarchical Clustering Approach Based on Universal Gravitation. Mathematical Problems in Engineering, 2020, 2020, 1-15.	0.6	7
2544	A Method for Predicting Long-Term Municipal Water Demands Under Climate Change. Water Resources Management, 2020, 34, 1265-1279.	1.9	106
2545	Combining information from thresholding techniques through an evolutionary Bayesian network algorithm. Applied Soft Computing Journal, 2020, 90, 106147.	4.1	12
2546	K-Means Multi-Verse Optimizer (KMVO) Algorithm to Construct DNA Storage Codes. IEEE Access, 2020, 8, 29547-29556.	2.6	21

#	ARTICLE	IF	CITATIONS
2547	A smart metaheuristic algorithm for solving engineering problems. <i>Engineering With Computers</i> , 2021, 37, 2389.	3.5	46
2548	FBI inspired meta-optimization. <i>Applied Soft Computing Journal</i> , 2020, 93, 106339.	4.1	102
2549	A Hybrid Anomaly Classification with Deep Learning (DL) and Binary Algorithms (BA) as Optimizer in the Intrusion Detection System (IDS). , 2020, , .		12
2550	Sequential Hybrid Particle Swarm Optimization and Gravitational Search Algorithm with Dependent Random Coefficients. <i>Mathematical Problems in Engineering</i> , 2020, 2020, 1-17.	0.6	5
2551	Modeling the Maximum Magnetic Entropy Change of Doped Manganite Using a Grid Search-Based Extreme Learning Machine and Hybrid Gravitational Search-Based Support Vector Regression. <i>Crystals</i> , 2020, 10, 310.	1.0	22
2552	Quadratic Interpolation Based Simultaneous Heat Transfer Search Algorithm and Its Application to Chemical Dynamic System Optimization. <i>Processes</i> , 2020, 8, 478.	1.3	2
2553	Estimation of total dissolved solids (TDS) using new hybrid machine learning models. <i>Journal of Hydrology</i> , 2020, 587, 124989.	2.3	63
2554	Improved Binary Sailfish Optimizer Based on Adaptive \hat{I}^2 -Hill Climbing for Feature Selection. <i>IEEE Access</i> , 2020, 8, 83548-83560.	2.6	80
2555	Gravitational Search Based Feature Selection for Enhanced Phishing Websites Detection. , 2020, , .		3
2556	Interactive autodidactic school: A new metaheuristic optimization algorithm for solving mathematical and structural design optimization problems. <i>Computers and Structures</i> , 2020, 235, 106268.	2.4	41
2557	Rationalized fruit fly optimization with sine cosine algorithm: A comprehensive analysis. <i>Expert Systems With Applications</i> , 2020, 157, 113486.	4.4	59
2558	Fractional-order calculus-based flower pollination algorithm with local search for global optimization and image segmentation. <i>Knowledge-Based Systems</i> , 2020, 197, 105889.	4.0	65
2559	Observer-based control for UPQC with optimized gains of PI controller. <i>International Transactions on Electrical Energy Systems</i> , 2020, 30, e47233.	1.2	3
2560	Heuristic optimization techniques for connecting renewable distributed generators on distribution grids. <i>Neural Computing and Applications</i> , 2020, 32, 14195-14225.	3.2	25
2561	VNE strategy based on chaos hybrid flower pollination algorithm considering multi-criteria decision making. <i>Neural Computing and Applications</i> , 2020, 33, 10673.	3.2	3
2562	Harris Hawks optimization with information exchange. <i>Applied Mathematical Modelling</i> , 2020, 84, 52-75.	2.2	57
2563	An automated computer-aided diagnosis system for classification of MR images using texture features and gbest-guided gravitational search algorithm. <i>Biocybernetics and Biomedical Engineering</i> , 2020, 40, 815-835.	3.3	14
2564	The air quality index trend forecasting based on improved error correction model and data preprocessing for 17 port cities in China. <i>Chemosphere</i> , 2020, 252, 126474.	4.2	29

#	ARTICLE	IF	CITATIONS
2565	A modified Sine Cosine Algorithm with novel transition parameter and mutation operator for global optimization. Expert Systems With Applications, 2020, 154, 113395.	4.4	97
2566	An aggregative learning gravitational search algorithm with self-adaptive gravitational constants. Expert Systems With Applications, 2020, 152, 113396.	4.4	90
2567	An efficient Harris hawks-inspired image segmentation method. Expert Systems With Applications, 2020, 155, 113428.	4.4	130
2568	Hybrid PSO-GSA for energy efficient spectrum sensing in cognitive radio network. Physical Communication, 2020, 40, 101091.	1.2	62
2569	Comparative study of nature-inspired algorithms to design $(1+\hat{I}\pm)$ and $(2+\hat{I}\pm)$ -order filters using a frequency-domain approach. Swarm and Evolutionary Computation, 2020, 55, 100685.	4.5	13
2570	hHHO-IGWO: A New Hybrid Harris Hawks Optimizer for Solving Global Optimization Problems. , 2020, , .		15
2571	Teaching-Learning-Based Optimization Enhanced With Multiobjective Sorting Based and Cooperative Learning. IEEE Access, 2020, 8, 65923-65937.	2.6	6
2572	A db-Scan Hybrid Algorithm: An Application to the Multidimensional Knapsack Problem. Mathematics, 2020, 8, 507.	1.1	20
2573	Evaluation of Hunting-Based Optimizers for a Quadrotor Sliding Mode Flight Controller. Robotics, 2020, 9, 22.	2.1	4
2574	A Novel Hybrid Algorithm Based on Grey Wolf Optimizer and Fireworks Algorithm. Sensors, 2020, 20, 2147.	2.1	27
2575	Ant Lion Optimization: Variants, Hybrids, and Applications. IEEE Access, 2020, 8, 77746-77764.	2.6	110
2576	Enhancing tree-seed algorithm via feed-back mechanism for optimizing continuous problems. Applied Soft Computing Journal, 2020, 92, 106314.	4.1	15
2577	The estimation of low and high-pass active filter parameters with opposite charged system search algorithm. Expert Systems With Applications, 2020, 155, 113474.	4.4	6
2578	Optimal design and implementation of compact fractional order microwave integrator. International Journal of RF and Microwave Computer-Aided Engineering, 2020, 30, e22260.	0.8	1
2579	Meta-heuristic based optimization of WSNs energy and lifetime-A Survey. , 2020, , .		7
2580	Hybrid iterative reconstruction method for imaging problems in ECT. IEEE Transactions on Instrumentation and Measurement, 2020, , 1-1.	2.4	19
2581	An intelligent algorithm with interactive learning mechanism for high-dimensional optimization problem based on improved animal migration optimization. Concurrency Computation Practice and Experience, 2020, , e5774.	1.4	2
2582	An optimal configuration for a battery and PEM fuel cell-based hybrid energy system using developed Krill herd optimization algorithm for locomotive application. Energy Reports, 2020, 6, 885-894.	2.5	103

#	ARTICLE	IF	CITATIONS
2583	A Migration-Based Cuttlefish Algorithm With Short-Term Memory for Optimization Problems. IEEE Access, 2020, 8, 70270-70292.	2.6	16
2584	Meta-Heuristic Optimization Based Two-stage Residential Load Pattern Clustering Approach Considering Intracluster Compactness and Inter-cluster Separation. IEEE Transactions on Industry Applications, 2020, , 1-1.	3.3	14
2585	Cosine adapted modified whale optimization algorithm for control of switched reluctance motor. Computational Intelligence, 2022, 38, 978-1017.	2.1	15
2586	Comparative Performance of Recent Advanced Optimization Algorithms for Minimum Energy Requirement Solutions in Water Pump Switching Network. Archives of Computational Methods in Engineering, 2021, 28, 1545-1559.	6.0	10
2587	Histogram Equalization Variants as Optimization Problems: A Review. Archives of Computational Methods in Engineering, 2021, 28, 1471-1496.	6.0	66
2588	Intrusion detection system for cloud forensics using bayesian fuzzy clustering and optimization based SVNN. Evolutionary Intelligence, 2021, 14, 699-709.	2.3	6
2589	Ant Lion Optimizer: A Comprehensive Survey of Its Variants and Applications. Archives of Computational Methods in Engineering, 2021, 28, 1397-1416.	6.0	110
2590	GSA-LA: gravitational search algorithm based on learning automata. Journal of Experimental and Theoretical Artificial Intelligence, 2021, 33, 109-125.	1.8	17
2591	A hybrid multiverse optimisation algorithm based on differential evolution and adaptive mutation. Journal of Experimental and Theoretical Artificial Intelligence, 2021, 33, 239-261.	1.8	6
2592	Binary quantum-inspired gravitational search algorithm-based multi-criteria scheduling for multi-processor computing systems. Journal of Supercomputing, 2021, 77, 796-817.	2.4	17
2593	A Comparative Study of Metaheuristic Algorithms for Reliability-Based Design Optimization Problems. Archives of Computational Methods in Engineering, 2021, 28, 1853-1869.	6.0	126
2594	Battle royale optimization algorithm. Neural Computing and Applications, 2021, 33, 1139-1157.	3.2	109
2595	Gravitational search algorithm based optimized deep learning model with diverse set of features for facial expression recognition. Journal of Ambient Intelligence and Humanized Computing, 2021, 12, 1631-1646.	3.3	30
2597	A modified moth flame optimisation technique tuned adaptive fuzzy logic PID controller for frequency regulation of an autonomous power system. International Journal of Sustainable Energy, 2021, 40, 41-68.	1.3	13
2598	A novel meta-heuristic search algorithm for solving optimization problems: capuchin search algorithm. Neural Computing and Applications, 2021, 33, 2515-2547.	3.2	113
2599	A novel lifetime scheme for enhancing the convergence performance of salp swarm algorithm. Soft Computing, 2021, 25, 181-206.	2.1	19
2600	Memetic algorithms for training feedforward neural networks: an approach based on gravitational search algorithm. Neural Computing and Applications, 2021, 33, 2561-2588.	3.2	16
2601	Group search optimizer: a nature-inspired meta-heuristic optimization algorithm with its results, variants, and applications. Neural Computing and Applications, 2021, 33, 2949-2972.	3.2	124

#	ARTICLE	IF	CITATIONS
2602	Efficient image segmentation through 2D histograms and an improved owl search algorithm. International Journal of Machine Learning and Cybernetics, 2021, 12, 131-150.	2.3	6
2603	Chaos Game Optimization: a novel metaheuristic algorithm. Artificial Intelligence Review, 2021, 54, 917-1004.	9.7	154
2604	Diversity-enhanced particle swarm optimization algorithm based on the group behaviour of social spiders. Engineering Optimization, 2021, 53, 811-829.	1.5	4
2605	A Comprehensive Analysis of Nature-Inspired Meta-Heuristic Techniques for Feature Selection Problem. Archives of Computational Methods in Engineering, 2021, 28, 1103-1127.	6.0	143
2606	Improved butterfly optimisation algorithm based on guiding weight and population restart. Journal of Experimental and Theoretical Artificial Intelligence, 2021, 33, 127-145.	1.8	16
2607	Automated soil prediction using bag-of-features and chaotic spider monkey optimization algorithm. Evolutionary Intelligence, 2021, 14, 293-304.	2.3	73
2608	Pareto-Based Adaptive Resources Selection Model in Hybrid Cloud Environment. IETE Journal of Research, 2021, 67, 240-252.	1.8	3
2609	A Parallel Social Spider Optimization Algorithm Based on Emotional Learning. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 797-808.	5.9	8
2610	Deluge based Genetic Algorithm for feature selection. Evolutionary Intelligence, 2021, 14, 357-367.	2.3	49
2611	A <i>Canis lupus</i> inspired upgraded Harris hawks optimizer for nonlinear, constrained, continuous, and discrete engineering design problem. International Journal for Numerical Methods in Engineering, 2021, 122, 1051-1088.	1.5	13
2612	Improved coral reefs optimization with adaptive η -hill climbing for feature selection. Neural Computing and Applications, 2021, 33, 6467-6486.	3.2	13
2613	Lightning search algorithm: a comprehensive survey. Applied Intelligence, 2021, 51, 2353-2376.	3.3	46
2614	Equilibrium optimization algorithm for network reconfiguration and distributed generation allocation in power systems. Applied Soft Computing Journal, 2021, 98, 106867.	4.1	93
2615	Community detection in complex networks using network embedding and gravitational search algorithm. Journal of Intelligent Information Systems, 2021, 57, 51-72.	2.8	32
2616	A carnivorous plant algorithm for solving global optimization problems. Applied Soft Computing Journal, 2021, 98, 106833.	4.1	52
2617	A two-step coordinated optimization model for a dewatering process. Canadian Journal of Chemical Engineering, 2021, 99, 742-754.	0.9	5
2618	A novel Black Widow Optimization algorithm for multilevel thresholding image segmentation. Expert Systems With Applications, 2021, 167, 114159.	4.4	138
2619	A Modified Grey Wolf Optimizer Based Data Clustering Algorithm. Applied Artificial Intelligence, 2021, 35, 63-79.	2.0	33

#	ARTICLE	IF	CITATIONS
2620	Maximum Likelihood Finite-Element Model Updating of Civil Engineering Structures Using Nature-Inspired Computational Algorithms. <i>Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE)</i> , 2021, 31, 326-338.	0.5	8
2621	A new compound wind speed forecasting structure combining multi-kernel LSSVM with two-stage decomposition technique. <i>Soft Computing</i> , 2021, 25, 1479-1500.	2.1	16
2622	An Energy Efficient Clustered Gravitational and Fuzzy Based Routing Algorithm in WSNs. <i>Wireless Personal Communications</i> , 2021, 116, 61-90.	1.8	52
2623	Hybrid gravitational search algorithm based model for optimizing coverage and connectivity in wireless sensor networks. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2021, 12, 2835-2848.	3.3	20
2624	A novel metaheuristic optimizer inspired by behavior of jellyfish in ocean. <i>Applied Mathematics and Computation</i> , 2021, 389, 125535.	1.4	251
2625	An intensify atom search optimization for engineering design problems. <i>Applied Mathematical Modelling</i> , 2021, 89, 837-859.	2.2	27
2626	Optimal hydrogen consumption of fuel cell-based locomotive using speed trajectory optimization by Improved Pathfinder algorithm. <i>Journal of Cleaner Production</i> , 2021, 278, 123430.	4.6	14
2627	Combination of predictive models with an optimal adaptive fuzzy controller for active suspension systems having control force constraints on front and rear tires. <i>Transactions of the Institute of Measurement and Control</i> , 2021, 43, 862-874.	1.1	1
2628	FPGA-Based neural network for accurate distance estimation of elderly falls using WSN in an indoor environment. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021, 167, 108276.	2.5	19
2629	Experimental study on classical and metaheuristics algorithms for optimal nano-chitosan concentration selection in surface coating and food packaging. <i>Food Chemistry</i> , 2021, 335, 127681.	4.2	7
2630	Lichtenberg optimization algorithm applied to crack tip identification in thin plate-like structures. <i>Engineering Computations</i> , 2021, 38, 151-166.	0.7	28
2631	Optimal power flow incorporating stochastic wind and solar generation by metaheuristic optimizers. <i>Microsystem Technologies</i> , 2021, 27, 3263-3277.	1.2	25
2632	Archimedes optimization algorithm: a new metaheuristic algorithm for solving optimization problems. <i>Applied Intelligence</i> , 2021, 51, 1531-1551.	3.3	553
2633	A novel algorithm for global optimization: Rat Swarm Optimizer. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2021, 12, 8457-8482.	3.3	227
2634	Design of digital IIR filter: A research survey. <i>Applied Acoustics</i> , 2021, 172, 107669.	1.7	40
2635	Performance assessment of the metaheuristic optimization algorithms: an exhaustive review. <i>Artificial Intelligence Review</i> , 2021, 54, 2323-2409.	9.7	106
2636	Swarm optimization approach to design PID controller for artificially ventilated human respiratory system. <i>Computer Methods and Programs in Biomedicine</i> , 2021, 198, 105776.	2.6	26
2637	A comparative study of social group optimization with a few recent optimization algorithms. <i>Complex & Intelligent Systems</i> , 2021, 7, 249-295.	4.0	20

#	ARTICLE	IF	CITATIONS
2638	A comprehensive survey of Crow Search Algorithm and its applications. <i>Artificial Intelligence Review</i> , 2021, 54, 2669-2716.	9.7	55
2639	An efficient modified dragonfly algorithm and whale optimization approach for optimal scheduling of microgrid with islanding constraints. <i>Transactions of the Institute of Measurement and Control</i> , 2021, 43, 421-433.	1.1	9
2640	Cooperation search algorithm: A novel metaheuristic evolutionary intelligence algorithm for numerical optimization and engineering optimization problems. <i>Applied Soft Computing Journal</i> , 2021, 98, 106734.	4.1	97
2641	An efficient optimal neural network based on gravitational search algorithm in predicting the deformation of geogrid-reinforced soil structures. <i>Transportation Geotechnics</i> , 2021, 26, 100446.	2.0	57
2642	A distribution network reconstruction method with DG and EV based on improved gravitation algorithm. <i>Systems Science and Control Engineering</i> , 2021, 9, 6-13.	1.8	4
2643	FB-GSA: A fuzzy bi-level programming based gravitational search algorithm for unconstrained optimization. <i>Applied Intelligence</i> , 2021, 51, 1857-1887.	3.3	1
2644	Hypersonic reentry trajectory planning by using hybrid fractional-order particle swarm optimization and gravitational search algorithm. <i>Chinese Journal of Aeronautics</i> , 2021, 34, 50-67.	2.8	14
2645	Optimizing quantum cloning circuit parameters based on adaptive guided differential evolution algorithm. <i>Journal of Advanced Research</i> , 2021, 29, 147-157.	4.4	21
2646	Dimension decided Harris hawks optimization with Gaussian mutation: Balance analysis and diversity patterns. <i>Knowledge-Based Systems</i> , 2021, 215, 106425.	4.0	104
2647	Adaptive levy-assisted salp swarm algorithm: Analysis and optimization case studies. <i>Mathematics and Computers in Simulation</i> , 2021, 181, 380-409.	2.4	32
2648	Solving Engineering Optimization Problems Without Penalty. <i>International Journal of Computational Methods</i> , 2021, 18, 2150007.	0.8	2
2649	A Multiobjective optimal VAR dispatch using FACTS devices considering voltage stability and contingency analysis. , 2021, , 1-26.		0
2650	PSO-based group-oriented crow search algorithm (PGCSA). <i>Engineering Computations</i> , 2021, 38, 545-571.	0.7	6
2651	Dimension by dimension dynamic sine cosine algorithm for global optimization problems. <i>Applied Soft Computing Journal</i> , 2021, 98, 106933.	4.1	28
2652	An Improved PSOCSA for Clustering and Routing in WSNs. <i>Wireless Personal Communications</i> , 2021, 117, 431-459.	1.8	3
2653	Parameters identification of solid oxide fuel cell for static and dynamic simulation using comprehensive learning dynamic multi-swarm marine predators algorithm. <i>Energy Conversion and Management</i> , 2021, 228, 113692.	4.4	40
2654	Mean-variance portfolio optimization using machine learning-based stock price prediction. <i>Applied Soft Computing Journal</i> , 2021, 100, 106943.	4.1	131
2655	Optimal hybrid energy system for locomotive utilizing improved Locust Swarm optimizer. <i>Energy</i> , 2021, 218, 119492.	4.5	6

#	ARTICLE	IF	CITATIONS
2656	Evolutionary biogeography-based whale optimization methods with communication structure: Towards measuring the balance. Knowledge-Based Systems, 2021, 212, 106642.	4.0	165
2657	Monarch butterfly optimization: A comprehensive review. Expert Systems With Applications, 2021, 168, 114418.	4.4	131
2658	Optimizing operating rules for multi-reservoir hydropower generation systems: An adaptive hybrid differential evolution algorithm. Renewable Energy, 2021, 167, 774-790.	4.3	43
2659	A conceptual and practical comparison of PSO-style optimization algorithms. Expert Systems With Applications, 2021, 167, 114430.	4.4	45
2660	Survival exploration strategies for Harris Hawks Optimizer. Expert Systems With Applications, 2021, 168, 114243.	4.4	45
2661	Improved whale optimization algorithm based on random hopping update and random control parameter. Journal of Intelligent and Fuzzy Systems, 2021, 40, 363-379.	0.8	8
2662	A powerful Lichtenberg Optimization Algorithm: A damage identification case study. Engineering Applications of Artificial Intelligence, 2021, 97, 104055.	4.3	38
2663	Optimal design of zero-phase digital Riesz FIR fractional-order differentiator. Soft Computing, 2021, 25, 4261-4282.	2.1	6
2664	GSA for machine learning problems: A comprehensive overview. Applied Mathematical Modelling, 2021, 92, 261-280.	2.2	15
2665	A Computational Intelligence Perspective on Multimodal Image Registration for Unmanned Aerial Vehicles (UAVs). Lecture Notes in Electrical Engineering, 2021, , 251-274.	0.3	1
2666	CSCF: a chaotic sine cosine firefly algorithm for practical application problems. Neural Computing and Applications, 2021, 33, 7011-7030.	3.2	91
2667	Comparison of three novel hybrid metaheuristic algorithms for structural optimization problems. Computers and Structures, 2021, 244, 106395.	2.4	12
2668	Global Gravitational Search Algorithm-Aided Kalman Filter Design for Volterra-Based Nonlinear System Identification. Circuits, Systems, and Signal Processing, 2021, 40, 2302-2334.	1.2	20
2669	Adaptive optimal fuzzy logic based energy management in multi-energy microgrid considering operational uncertainties. Applied Soft Computing Journal, 2021, 98, 106882.	4.1	54
2670	Batch recommendation of experts to questions in community-based question-answering with a sailfish optimizer. Expert Systems With Applications, 2021, 169, 114484.	4.4	19
2671	A Hybrid PPSOGSA Algorithm for Optimal Volt/VAr/THDv Control in Distorted Radial Distribution Systems. Applied Artificial Intelligence, 2021, 35, 227-246.	2.0	1
2672	A Grunwaldâ€™Letnikov based Manta ray foraging optimizer for global optimization and image segmentation. Engineering Applications of Artificial Intelligence, 2021, 98, 104105.	4.3	47
2673	Moth Swarm Algorithm for Image Contrast Enhancement. Knowledge-Based Systems, 2021, 212, 106607.	4.0	19

#	ARTICLE	IF	CITATIONS
2674	Nature-inspired approach: An enhanced whale optimization algorithm for global optimization. <i>Mathematics and Computers in Simulation</i> , 2021, 185, 17-46.	2.4	53
2675	A novel stochastic fractal search algorithm with fitness-Distance balance for global numerical optimization. <i>Swarm and Evolutionary Computation</i> , 2021, 61, 100821.	4.5	62
2676	A Hybrid Greedy Sine Cosine Algorithm with Differential Evolution for Global Optimization and Cylindricity Error Evaluation. <i>Applied Artificial Intelligence</i> , 2021, 35, 171-191.	2.0	10
2677	An enhanced quantum-inspired gravitational search algorithm for color prediction based on the absorption spectrum. <i>Textile Reseach Journal</i> , 2021, 91, 1211-1226.	1.1	2
2678	A comparative study on using metaheuristics for the seismic-ray-tracing problem. <i>Earth Science Informatics</i> , 2021, 14, 469-483.	1.6	3
2679	Nanorobots-Assisted Natural Computation for Multifocal Tumor Sensitization and Targeting. <i>IEEE Transactions on Nanobioscience</i> , 2021, 20, 154-165.	2.2	11
2680	Gravitational Search Algorithm for Calculating Exciton Binding Energy in Monolayer Transition Metal Dichalcogenides. <i>Journal of Electronic Materials</i> , 2021, 50, 163-169.	1.0	1
2681	Assessment of the optimized scenarios for economic-environmental conjunctive water use utilizing gravitational search algorithm. <i>Agricultural Water Management</i> , 2021, 246, 106688.	2.4	6
2682	Golden eagle optimizer: A nature-inspired metaheuristic algorithm. <i>Computers and Industrial Engineering</i> , 2021, 152, 107050.	3.4	218
2683	A detailed study about CDW-PSO, BWO and GM-CPSO methods on continuous function optimization. <i>Journal of Information and Optimization Sciences</i> , 2021, 42, 753-772.	0.2	2
2684	Ant colony optimization with horizontal and vertical crossover search: Fundamental visions for multi-threshold image segmentation. <i>Expert Systems With Applications</i> , 2021, 167, 114122.	4.4	116
2685	Gravitational search algorithm: a comprehensive analysis of recent variants. <i>Multimedia Tools and Applications</i> , 2021, 80, 7581-7608.	2.6	52
2686	An innovative hybrid algorithm to solve nonconvex economic load dispatch problem with or without valve point effects. <i>International Transactions on Electrical Energy Systems</i> , 2021, 31, .	1.2	6
2687	Chaotic random spare ant colony optimization for multi-threshold image segmentation of 2D Kapur entropy. <i>Knowledge-Based Systems</i> , 2021, 216, 106510.	4.0	196
2688	Optimizing the seismic response of base-isolated liquid storage tanks using swarm intelligence algorithms. <i>Computers and Structures</i> , 2021, 243, 106407.	2.4	14
2689	A solution to statistical and multidisciplinary design optimization problems using hGWO-SA algorithm. <i>Neural Computing and Applications</i> , 2021, 33, 3799-3824.	3.2	9
2690	JDF-DE: a differential evolution with Jrand number decreasing mechanism and feedback guide technique for global numerical optimization. <i>Applied Intelligence</i> , 2021, 51, 359-376.	3.3	9
2691	Fractional-order Sliding Mode Constraint Control for Manipulator Systems Using Grey Wolf and Whale Optimization Algorithms. <i>International Journal of Control, Automation and Systems</i> , 2021, 19, 676-686.	1.6	9

#	ARTICLE	IF	CITATIONS
2692	A self-adaptive population Rao algorithm for optimization of selected bio-energy systems. <i>Journal of Computational Design and Engineering</i> , 2021, 8, 69-96.	1.5	18
2693	Coronavirus herd immunity optimizer (CHIO). <i>Neural Computing and Applications</i> , 2021, 33, 5011-5042.	3.2	219
2694	Spiral-Inspired Spotted Hyena Optimizer and Its Application to Constraint Engineering Problems. <i>Wireless Personal Communications</i> , 2021, 116, 865-881.	1.8	8
2695	hPSO-SA: hybrid particle swarm optimization-simulated annealing algorithm for relay node selection in wireless body area networks. <i>Applied Intelligence</i> , 2021, 51, 1410-1438.	3.3	16
2696	An optimized deep learning architecture for the diagnosis of COVID-19 disease based on gravitational search optimization. <i>Applied Soft Computing Journal</i> , 2021, 98, 106742.	4.1	118
2697	An improved grey wolf optimizer for solving engineering problems. <i>Expert Systems With Applications</i> , 2021, 166, 113917.	4.4	488
2698	An enhanced class toppler algorithm based on particle swarm optimizer for global optimization. <i>Applied Intelligence</i> , 2021, 51, 1022-1040.	3.3	4
2699	Feature selection schema based on game theory and biology migration algorithm for regression problems. <i>International Journal of Machine Learning and Cybernetics</i> , 2021, 12, 303-342.	2.3	7
2700	Nature inspired optimization algorithms or simply variations of metaheuristics?. <i>Artificial Intelligence Review</i> , 2021, 54, 1841-1862.	9.7	69
2701	Nature Inspired Techniques and Applications in Intrusion Detection Systems: Recent Progress and Updated Perspective. <i>Archives of Computational Methods in Engineering</i> , 2021, 28, 2897-2919.	6.0	5
2702	I-GWO and Ex-GWO: improved algorithms of the Grey Wolf Optimizer to solve global optimization problems. <i>Engineering With Computers</i> , 2021, 37, 509-532.	3.5	65
2703	A new development of ANFIS-GMDH optimized by PSO to predict pile bearing capacity based on experimental datasets. <i>Engineering With Computers</i> , 2021, 37, 685-700.	3.5	83
2704	Stochastic Dual Simplex Algorithm: A Novel Heuristic Optimization Algorithm. <i>IEEE Transactions on Cybernetics</i> , 2021, 51, 2725-2734.	6.2	16
2705	ESA: a hybrid bio-inspired metaheuristic optimization approach for engineering problems. <i>Engineering With Computers</i> , 2021, 37, 323-353.	3.5	125
2706	Chaotic Local Search-Based Differential Evolution Algorithms for Optimization. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021, 51, 3954-3967.	5.9	202
2707	Implementation of Hybrid GSA SHE Technique in Hybrid Nine-Level Inverter Topology. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021, 9, 1064-1074.	3.7	36
2708	An entropy-based self-adaptive simulated annealing. <i>Engineering With Computers</i> , 2021, 37, 1329-1355.	3.5	3
2709	Nature-Inspired Optimization Algorithms Applied for Solving Charging Station Placement Problem: Overview and Comparison. <i>Archives of Computational Methods in Engineering</i> , 2021, 28, 91-106.	6.0	27

#	ARTICLE	IF	CITATIONS
2710	Modeling thermal conductivity of ionic liquids: A comparison between chemical structure and thermodynamic properties-based models. <i>Journal of Molecular Liquids</i> , 2021, 322, 114911.	2.3	16
2714	Firefly Algorithms. , 2021, , 123-139.		5
2715	Clustering human development index data with gravitational search algorithm-fuzzy 4-means (GSA-F4M). <i>AIP Conference Proceedings</i> , 2021, , .	0.3	0
2716	Fog Assisted 6TiSCH Tri-Layer Network Architecture for Adaptive Scheduling and Energy-Efficient Offloading Using Rank-Based Q-Learning in Smart Industries. <i>IEEE Sensors Journal</i> , 2021, 21, 25489-25507.	2.4	21
2717	Task Scheduling in Cloud Computing Using Hybrid Meta-Heuristic: A Review. <i>Algorithms for Intelligent Systems</i> , 2021, , 453-472.	0.5	1
2718	Salp Swarm Optimization Search Based Feature Selection for Enhanced Phishing Websites Detection. <i>Lecture Notes in Computer Science</i> , 2021, , 146-161.	1.0	5
2719	Comprehensive learning Jaya algorithm for engineering design optimization problems. <i>Journal of Intelligent Manufacturing</i> , 2022, 33, 1229-1253.	4.4	13
2720	Adaptive Entropy Index Histogram Equalization for Poor Contrast Images. <i>IEEE Access</i> , 2021, 9, 6402-6437.	2.6	14
2721	Solving time-dependent heat conduction problems using metaheuristic algorithms extended with a novel local search strategy. <i>SN Applied Sciences</i> , 2021, 3, 1.	1.5	0
2722	An innovative hybrid algorithm for bound-unconstrained optimization problems and applications. <i>Journal of Intelligent Manufacturing</i> , 0, , 1.	4.4	5
2723	An Adaptive Opposition-Based Learning Selection: The Case for Jaya Algorithm. <i>IEEE Access</i> , 2021, 9, 55581-55594.	2.6	7
2724	CWCA: Complex-valued encoding water cycle algorithm. <i>Mathematical Biosciences and Engineering</i> , 2021, 18, 5836-5864.	1.0	5
2725	Optimal Sizing of Hybrid Wind and Solar Renewable Energy System. , 2021, , 539-577.		0
2726	Analysis of Swarm Intelligence Based ANN Algorithms for Attacking PUFs. <i>IEEE Access</i> , 2021, 9, 121743-121758.	2.6	6
2727	Enhanced chaotic JAYA algorithm for parameter estimation of photovoltaic cell/modules. <i>ISA Transactions</i> , 2021, 116, 139-166.	3.1	81
2728	Quantum Chaotic Butterfly Optimization Algorithm With Ranking Strategy for Constrained Optimization Problems. <i>IEEE Access</i> , 2021, 9, 114587-114608.	2.6	11
2729	MPBOA - A novel hybrid butterfly optimization algorithm with symbiosis organisms search for global optimization and image segmentation. <i>Multimedia Tools and Applications</i> , 2021, 80, 12035-12076.	2.6	51
2730	Thermal Exchange Metaheuristic Optimization Algorithm. , 2021, , 733-782.		5

#	ARTICLE	IF	CITATIONS
2731	Determination of the Effective Stiffness of Half-Open Cross-Section Bars and Orthotropic Steel Deck of a Truss Bridge Using Model Updating. Lecture Notes in Mechanical Engineering, 2021, , 97-108.	0.3	1
2732	Physics based meta heuristics in manufacturing. Materials Today: Proceedings, 2021, 39, 805-811.	0.9	1
2733	A New Optimization Based on Parallelizing Hybrid PSO-GSA Algorithm. Smart Innovation, Systems and Technologies, 2021, , 168-178.	0.5	0
2734	Optimization and Artificial Neural Network Models for Reinforced Concrete Members. Springer Tracts in Nature-inspired Computing, 2021, , 181-199.	1.2	7
2735	Rock Hyraxes Swarm Optimization: A New Nature-Inspired Metaheuristic Optimization Algorithm. Computers, Materials and Continua, 2021, 68, 643-654.	1.5	17
2736	Efficient Optimization Design Method of PMSLM Based on Deep Adaptive Ridge Regression With Embedded Analytical Mapping Function. IEEE Transactions on Industrial Electronics, 2022, 69, 8243-8254.	5.2	13
2737	Integrating Metaheuristic Algorithms and Minimum Cross Entropy for Image Segmentation in Mist Conditions. Studies in Computational Intelligence, 2021, , 545-581.	0.7	0
2738	Training Multi-layer Perceptron Using Hybridization of Chaotic Gravitational Search Algorithm and Particle Swarm Optimization. Profiles in Operations Research, 2021, , 233-262.	0.3	2
2739	A Novel Auction-Based Optimization Algorithm and Its Application in Rough Set Feature Selection. IEEE Access, 2021, 9, 106501-106514.	2.6	6
2740	Optimal reactive power dispatch: a bibliometric analysis. Journal of Electrical Systems and Information Technology, 2021, 8, .	1.2	15
2741	A hybrid model using teaching-learning-based optimization and Salp swarm algorithm for feature selection and classification in digital mammography. Journal of Ambient Intelligence and Humanized Computing, 2021, 12, 8793-8808.	3.3	24
2742	bSSA: Binary Salp Swarm Algorithm With Hybrid Data Transformation for Feature Selection. IEEE Access, 2021, 9, 14867-14882.	2.6	57
2743	Atom search optimization algorithm. , 2021, , 13-46.		0
2744	Machine learning for optimizing healthcare resources. , 2021, , 215-239.		3
2745	QoS-driven metaheuristic service composition schemes: a comprehensive overview. Artificial Intelligence Review, 2021, 54, 3749-3816.	9.7	10
2746	TLMPA: Teaching-learning-based Marine Predators algorithm. AIMS Mathematics, 2020, 6, 1395-1442.	0.7	25
2747	A new MSGSA-optimized dynamic window of Spatio-temporal scan statistics for disease outbreak detection. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, , 1-1.	2.3	0
2748	Grasshopper Optimization Algorithm: Theory, Variants, and Applications. IEEE Access, 2021, 9, 50001-50024.	2.6	132

#	ARTICLE	IF	CITATIONS
2749	A Modified Manta Ray Foraging Optimization for Global Optimization Problems. IEEE Access, 2021, 9, 128702-128721.	2.6	29
2750	Advanced Ensemble Model for Solar Radiation Forecasting Using Sine Cosine Algorithm and Newton's Laws. IEEE Access, 2021, 9, 115750-115765.	2.6	45
2751	Modified Artificial Bee Colony Algorithm for Sizing Optimization of Truss Structures. Springer Tracts in Nature-inspired Computing, 2021, , 65-92.	1.2	0
2752	Hybrid Approaches to Nature-Inspired Population-Based Intelligent Optimization for Industrial Applications. IEEE Transactions on Industrial Informatics, 2022, 18, 546-558.	7.2	17
2753	Modern optimization techniques for performance enhancement in welding. , 2021, , 265-290.		0
2754	CMSRAS: A Novel Chaotic Multi-Specular Reflection Optimization Algorithm Considering Shared Nodes. IEEE Access, 2021, 9, 43050-43094.	2.6	4
2755	Improving Localization Success Rate of Three Magnetic Targets Using Individual Memory-Based WO-LM Algorithm. IEEE Sensors Journal, 2021, 21, 21750-21758.	2.4	14
2756	Metaheuristic Algorithm Based on Hybridization of Invasive Weed Optimization and Estimation Distribution Methods. Studies in Computational Intelligence, 2021, , 63-123.	0.7	0
2757	Enhancing Hyperheuristics for the Knapsack Problem through Fuzzy Logic. Computational Intelligence and Neuroscience, 2021, 2021, 1-17.	1.1	6
2758	A surrogate-based optimization method for mixed-variable aircraft design. Engineering Optimization, 2022, 54, 113-133.	1.5	5
2759	Modified salp swarm algorithm for global optimisation. Neural Computing and Applications, 2021, 33, 8709-8734.	3.2	6
2760	EAOA: An Enhanced Archimedes Optimization Algorithm for Feature Selection in Classification. IEEE Access, 2021, 9, 120795-120814.	2.6	24
2761	Tri-level regression testing using nature-inspired algorithms. Innovations in Systems and Software Engineering, 2021, 17, 1-16.	1.6	6
2762	Chaotic Henry Gas Solubility Optimization Algorithm. Lecture Notes on Data Engineering and Communications Technologies, 2021, , 247-257.	0.5	1
2763	Comparative Analysis Among Five Stochastic Search-Based Optimization Algorithms. Lecture Notes in Networks and Systems, 2021, , 369-380.	0.5	0
2764	A Differential Squirrel Search Algorithm. Lecture Notes in Networks and Systems, 2021, , 143-152.	0.5	5
2765	AC optimal power flow with thermal-wind-solar-tidal systems using the symbiotic organisms search algorithm. IET Renewable Power Generation, 2021, 15, 278-296.	1.7	32
2766	A novel statistical approach to numerical and multidisciplinary design optimization problems using pattern search inspired Harris hawks optimizer. Neural Computing and Applications, 2021, 33, 7031-7072.	3.2	22

#	ARTICLE	IF	CITATIONS
2767	A new clustering method for the diagnosis of CoVID19 using medical images. Applied Intelligence, 2021, 51, 2988-3011.	3.3	30
2768	Gravitational search algorithm for determining the optimal kinetic parameters of propane pre-reforming reaction. Reaction Kinetics, Mechanisms and Catalysis, 2021, 132, 111-122.	0.8	9
2769	Parallel Equilibrium Optimizer Algorithm and its application in Capacitated Vehicle Routing Problem. Intelligent Automation and Soft Computing, 2021, 27, 233-247.	1.6	11
2770	Conventional and Metaheuristic Optimization Algorithms for Solving Short Term Hydrothermal Scheduling Problem: A Review. IEEE Access, 2021, 9, 25993-26025.	2.6	22
2771	A Hybrid Whale Optimization with Seagull Algorithm for Global Optimization Problems. Mathematical Problems in Engineering, 2021, 2021, 1-31.	0.6	16
2772	Job Scheduling in Cloud Using Seagull Optimization Algorithm. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, 2021, , 27-40.	0.5	1
2773	Strategic Bidding in the Presence of Renewable Sources for Optimizing the Profit of the Power Suppliers. IEEE Access, 2021, 9, 70221-70232.	2.6	12
2774	Advances in Sine Cosine Algorithm: A comprehensive survey. Artificial Intelligence Review, 2021, 54, 2567-2608.	9.7	224
2775	Applied Optimization and Swarm Intelligence: A Systematic Review and Prospect Opportunities. Springer Tracts in Nature-inspired Computing, 2021, , 1-23.	1.2	5
2777	Political Optimizer Based Feedforward Neural Network for Classification and Function Approximation. Neural Processing Letters, 2021, 53, 429-458.	2.0	13
2778	Water Flow Optimizer: A Nature-Inspired Evolutionary Algorithm for Global Optimization. IEEE Transactions on Cybernetics, 2022, 52, 7753-7764.	6.2	13
2779	Review of Hybrid Combinations of Metaheuristics for Problem Solving Optimization. Studies in Computational Intelligence, 2021, , 221-232.	0.7	1
2780	Dynamic Pick and Place Trajectory of Delta Parallel Manipulator. Lecture Notes in Computer Science, 2021, , 1-11.	1.0	0
2782	Path Planning for Unmanned Aerial Vehicle Using a Mix-Strategy-Based Gravitational Search Algorithm. IEEE Access, 2021, 9, 57033-57045.	2.6	25
2783	Tension-Relaxation <i>In Vivo</i> Computing Principle for Tumor Sensitization and Targeting. IEEE Transactions on Cybernetics, 2022, 52, 9145-9156.	6.2	2
2784	Swarm Programming Using Moth-Flame Optimization and Whale Optimization Algorithms. Algorithms for Intelligent Systems, 2021, , 37-44.	0.5	1
2786	Collective State Implementation on Particle Swarm Optimization for Feature Selection. Algorithms for Intelligent Systems, 2021, , 791-801.	0.5	0
2787	A novel optimization-based method to find multiple solutions for path synthesis of planar four-bar and slider-crank mechanisms. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2021, 235, 5385-5405.	1.1	9

#	ARTICLE	IF	CITATIONS
2788	Analysis of Algorithms. , 2021, , 39-61.		1
2789	Advances in Meta-Heuristic Optimization Algorithms in Big Data Text Clustering. Electronics (Switzerland), 2021, 10, 101.	1.8	65
2790	Social Algorithms and Optimization. , 2021, , 1637-1659.		0
2791	Artificial ecosystem-based optimization algorithm. , 2021, , 59-91.		0
2792	A Hybrid Swarm and Gravitation-based feature selection algorithm for handwritten Indic script classification problem. Complex & Intelligent Systems, 2021, 7, 823-839.	4.0	7
2793	A Modified Sine Cosine Algorithm With Teacher Supervision Learning for Global Optimization. IEEE Access, 2021, 9, 17744-17766.	2.6	12
2794	A multi-layered gravitational search algorithm for function optimization and real-world problems. IEEE/CAA Journal of Automatica Sinica, 2021, 8, 94-109.	8.5	132
2795	Soccer-Inspired Metaheuristics: Systematic Review of Recent Research and Applications. Springer Tracts in Nature-inspired Computing, 2021, , 81-102.	1.2	6
2796	SGOA: annealing-behaved grasshopper optimizer for global tasks. Engineering With Computers, 2022, 38, 3761-3788.	3.5	88
2797	Social Network Search for Global Optimization. IEEE Access, 2021, 9, 92815-92863.	2.6	59
2798	A Solution to Text Hiding in Media with Hybrid Gravity Search Algorithm and Transposition Scheme. Smart Innovation, Systems and Technologies, 2021, , 434-442.	0.5	0
2799	Feature Pyramid Network for COVID-19 Pneumonia Detection from Chest X-rays Images. Advances in Intelligent Systems and Computing, 2021, , 24-32.	0.5	0
2800	Two Layer Hybrid Scheme of IMO and PSO for Optimization of Local Aligner: COVID-19 as a Case Study. Studies in Systems, Decision and Control, 2021, , 363-381.	0.8	5
2802	A Chaos Sparrow Search Algorithm with Logarithmic Spiral and Adaptive Step for Engineering Problems. CMES - Computer Modeling in Engineering and Sciences, 2022, 130, 331-364.	0.8	13
2803	Optimal Design and Simulation for PID Controller Using Fractional-Order Fish Migration Optimization Algorithm. IEEE Access, 2021, 9, 8808-8819.	2.6	26
2804	A modified multi-level cross-entropy algorithm for optimization of problems with discrete variables. Engineering With Computers, 2022, 38, 2683-2698.	3.5	2
2805	Controller Tuning by Metaheuristics Optimization. SpringerBriefs in Optimization, 2021, , 11-51.	0.3	2
2806	An Energy-segmented Moth-flame Optimization Algorithm for Function Optimization and Performance Measures Analysis. WSEAS Transactions on Circuits and Systems, 2021, 19, 320-346.	0.1	1

#	ARTICLE	IF	CITATIONS
2807	Combined non-convex optimization algorithms based on differential evolution, harmony search, firefly, and L-BFGS methods. IOP Conference Series: Materials Science and Engineering, 2021, 1047, 012077.	0.3	2
2808	Improved Salp Swarm Algorithm with mutation schemes for solving global optimization and engineering problems. Engineering With Computers, 2022, 38, 3927-3949.	3.5	27
2809	Chaotic approach for improving global optimization in Yellow Saddle Goatfish. Engineering Reports, 2021, 3, e12381.	0.9	5
2810	Enhanced equilibrium optimization method with fractional order chaotic and application engineering. Neural Computing and Applications, 2021, 33, 9849-9876.	3.2	18
2811	A multi-robot task allocation algorithm based on universal gravity rules. International Journal of Intelligent Robotics and Applications, 2021, 5, 49-64.	1.6	6
2812	Similarity in metaheuristics: a gentle step towards a comparison methodology. Natural Computing, 2022, 21, 265-287.	1.8	38
2813	Artificial lizard search optimization (ALSO): a novel nature-inspired meta-heuristic algorithm. Soft Computing, 2021, 25, 6179-6201.	2.1	22
2814	Niching comprehensive learning gravitational search algorithm for multimodal optimization problems. Evolutionary Intelligence, 2022, 15, 695-721.	2.3	4
2815	A New Fusion of ASO with SA Algorithm and Its Applications to MLP Training and DC Motor Speed Control. Arabian Journal for Science and Engineering, 2021, 46, 3889-3911.	1.7	52
2816	Design and applications of an advanced hybrid meta-heuristic algorithm for optimization problems. Artificial Intelligence Review, 2021, 54, 5931-6010.	9.7	10
2817	A novel neighborhood archives embedded gravitational constant in GSA. Soft Computing, 2021, 25, 6539-6555.	2.1	4
2818	Development of some techniques for solving system of linear and nonlinear equations via hybrid algorithm. Expert Systems, 2021, 38, e12669.	2.9	9
2819	State-of-the-Art Reviews of Meta-Heuristic Algorithms with Their Novel Proposal for Unconstrained Optimization and Applications. Archives of Computational Methods in Engineering, 2021, 28, 4049-4115.	6.0	14
2820	Advanced squirrel algorithm-trained neural network for efficient spectrum sensing in cognitive radio-based air traffic control application. IET Communications, 2021, 15, 1326-1351.	1.5	6
2821	A Simple Dendritic Neural Network Model-Based Approach for Daily PM2.5 Concentration Prediction. Electronics (Switzerland), 2021, 10, 373.	1.8	18
2822	A bioinformatic variant fruit fly optimizer for tackling optimization problems. Knowledge-Based Systems, 2021, 213, 106704.	4.0	26
2823	Energy Band Gap Modeling of Doped Bismuth Ferrite Multifunctional Material Using Gravitational Search Algorithm Optimized Support Vector Regression. Crystals, 2021, 11, 246.	1.0	12
2824	REVIEW OF THE MULTI-OBJECTIVE SWARM INTELLIGENCE OPTIMIZATION ALGORITHMS. Journal of Information and Communication Technology, 0, 20, .	0.3	2

#	ARTICLE	IF	CITATIONS
2825	Comparison of Current Metaheuristic Optimization Algorithms by Using Benchmark Functions. International Journal of Pure and Applied Sciences, 2021, 7, 100-112.	0.3	3
2826	A new configuration of autonomous <scp>CHP</scp> system based on improved version of marine predators algorithm: A case study. International Transactions on Electrical Energy Systems, 2021, 31, e12806.	1.2	21
2827	Designing new hybrid artificial intelligence model for CFST beam flexural performance prediction. Engineering With Computers, 2022, 38, 3109-3135.	3.5	13
2828	Horse herd optimization algorithm: A nature-inspired algorithm for high-dimensional optimization problems. Knowledge-Based Systems, 2021, 213, 106711.	4.0	192
2829	Multi-objective cluster head selection using fitness averaged rider optimization algorithm for IoT networks in smart cities. Sustainable Energy Technologies and Assessments, 2021, 43, 100973.	1.7	87
2830	An enhanced opposition-based Salp Swarm Algorithm for global optimization and engineering problems. Journal of Ambient Intelligence and Humanized Computing, 2022, 13, 129-150.	3.3	53
2831	Controller parameters tuning for multi area automatic generation control using modified Grey Wolf optimization algorithm. Materials Today: Proceedings, 2021, , .	0.9	1
2832	A Novelistic GSA and CSA Based Optimization for Energy-Efficient Routing Using Multiple Sinks in HWSNs Under Critical Scenarios. Wireless Personal Communications, 2022, 127, 1-37.	1.8	3
2833	Utilization of Gravitational Search Algorithm for Combinatorial T-Way Testing. Journal of Physics: Conference Series, 2021, 1755, 012007.	0.3	1
2834	Vortex search optimization algorithm for training of feed-forward neural network. International Journal of Machine Learning and Cybernetics, 2021, 12, 1517-1544.	2.3	13
2835	Lifetime Enhancement of Sensor Networks by the Moth Flame Optimization. Wireless Personal Communications, 2021, 118, 2807-2820.	1.8	4
2836	Forecasting Chinese cruise tourism demand with big data: An optimized machine learning approach. Tourism Management, 2021, 82, 104208.	5.8	73
2837	Semisupervised SVM by Hybrid Whale Optimization Algorithm and Its Application in Oil Layer Recognition. Mathematical Problems in Engineering, 2021, 2021, 1-19.	0.6	5
2838	GSA improvement via the von Neumann stability analysis. Natural Computing, 2021, 20, 471-511.	1.8	0
2839	A cooperative water wave optimization algorithm with reinforcement learning for the distributed assembly no-idle flowshop scheduling problem. Computers and Industrial Engineering, 2021, 153, 107082.	3.4	113
2840	Improving the performance of LSSVM model in predicting the safety factor for circular failure slope through optimization algorithms. Engineering With Computers, 2022, 38, 1755-1766.	3.5	21
2841	Hybrid optimization based PID control of ball and beam system. Journal of Intelligent and Fuzzy Systems, 2022, 42, 919-928.	0.8	6
2842	Hybrid Gravitationalâ€™Firefly Algorithm-Based Load Frequency Control for Hydrothermal Two-Area System. Mathematics, 2021, 9, 712.	1.1	23

#	ARTICLE	IF	CITATIONS
2843	Load Frequency Control Using Hybrid Intelligent Optimization Technique for Multi-Source Power Systems. <i>Energies</i> , 2021, 14, 1581.	1.6	39
2844	Metaheuristics: a comprehensive overview and classification along with bibliometric analysis. <i>Artificial Intelligence Review</i> , 2021, 54, 4237-4316.	9.7	112
2847	A comprehensive survey on optimizing deep learning models by metaheuristics. <i>Artificial Intelligence Review</i> , 2022, 55, 829-894.	9.7	32
2848	Dynamic Economic Dispatch Considering WT and PV Generation using Hybrid PSOS-CGSA Algorithm. , 2021, , .		2
2849	Research on fault location of BP neural network based on artificial fish swarm optimization. , 2021, , .		2
2850	An Adaptive Scaling Cuckoo Search Algorithm. , 2021, , .		1
2851	Non-revisiting stochastic search revisited: Results, perspectives, and future directions. <i>Swarm and Evolutionary Computation</i> , 2021, 61, 100828.	4.5	11
2852	A Novel Binary QUasi-Affine TRansformation Evolutionary (QUATRE) Algorithm. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2251.	1.3	7
2853	Development of a Lévy flight and FDB-based coyote optimization algorithm for global optimization and real-world ACOFP problems. <i>Soft Computing</i> , 2021, 25, 6577-6617.	2.1	32
2854	A meliorated Harris Hawks optimizer for combinatorial unit commitment problem with photovoltaic applications. <i>Journal of Electrical Systems and Information Technology</i> , 2021, 8, .	1.2	9
2855	Analysis of household green food consumption behavior based on machine learning prediction. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 0, , 1.	3.3	0
2856	Simple gravitational particle swarm algorithm for multimodal optimization problems. <i>PLoS ONE</i> , 2021, 16, e0248470.	1.1	4
2857	High equilibrium optimizer for global optimization. <i>Journal of Intelligent and Fuzzy Systems</i> , 2021, 40, 5583-5594.	0.8	5
2858	A modified self-adaptive marine predators algorithm: framework and engineering applications. <i>Engineering With Computers</i> , 2022, 38, 3269-3294.	3.5	32
2859	Optimization to optimization (OtoO): optimize monarchy butterfly method with stochastic multi-parameter divergence method for benchmark functions and load frequency control. <i>Engineering With Computers</i> , 2022, 38, 1735-1754.	3.5	5
2860	Performance Analysis and Comparison of Optimally Tuned Hybrid Filter Controller for Arc Furnace Load. <i>Journal of the Institution of Engineers (India): Series B</i> , 2021, 102, 551-571.	1.3	3
2861	Grey Forecasting Method of Equipment Spare Parts Demand Based on Swarm Intelligence Optimization. , 2021, , .		0
2862	An adaptive gravitational search algorithm for multilevel image thresholding. <i>Journal of Supercomputing</i> , 2021, 77, 10590-10607.	2.4	6

#	ARTICLE	IF	CITATIONS
2863	An improved multi-leader comprehensive learning particle swarm optimisation based on gravitational search algorithm. <i>Connection Science</i> , 2021, 33, 803-834.	1.8	3
2864	Optimal coordination of over current relay using opposition learning-based gravitational search algorithm. <i>Journal of Supercomputing</i> , 2021, 77, 10721-10741.	2.4	8
2865	Discrete and combinatorial gravitational search algorithms for test case prioritization and minimization. <i>International Journal of Information Technology (Singapore)</i> , 2021, 13, 817-823.	1.8	7
2866	A Novel Feature Selection Method on Mutual Information and Improved Gravitational Search Algorithm for High Dimensional Biomedical Data. , 2021, , .		1
2867	Artificial bee colony algorithm with adaptive covariance matrix for hearing loss detection. <i>Knowledge-Based Systems</i> , 2021, 216, 106792.	4.0	13
2868	Optimal Three-Dimensional Sensor Placement for Cable-Stayed Bridge Based on Dynamic Adjustment of Attenuation Factor Gravitational Search Algorithm. <i>Shock and Vibration</i> , 2021, 2021, 1-14.	0.3	1
2869	A Ladder Spherical Evolution Search Algorithm. <i>IEICE Transactions on Information and Systems</i> , 2021, E104.D, 461-464.	0.4	25
2870	Parameter free Jaya algorithm for truss sizing-layout optimization under natural frequency constraints. <i>Computers and Structures</i> , 2021, 245, 106461.	2.4	42
2871	A modification of I-SOS: performance analysis to large scale functions. <i>Applied Intelligence</i> , 2021, 51, 7881-7902.	3.3	7
2872	An Improved Equilibrium Optimizer with Application in Unmanned Aerial Vehicle Path Planning. <i>Sensors</i> , 2021, 21, 1814.	2.1	26
2873	LAGOA: Learning automata based grasshopper optimization algorithm for feature selection in disease datasets. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2022, 13, 3175-3194.	3.3	10
2874	An advanced hybrid meta-heuristic algorithm for solving small- and large-scale engineering design optimization problems. <i>Journal of Electrical Systems and Information Technology</i> , 2021, 8, .	1.2	5
2875	A new improved salp swarm algorithm using logarithmic spiral mechanism enhanced with chaos for global optimization. <i>Evolutionary Intelligence</i> , 2022, 15, 1745-1775.	2.3	5
2876	A Comprehensive Study of Parameters Analysis for Galactic Swarm Optimization. <i>International Journal of Intelligent Systems and Applications in Engineering</i> , 2021, 9, 28-37.	1.0	2
2877	Quantum Henry gas solubility optimization algorithm for global optimization. <i>Engineering With Computers</i> , 2022, 38, 2329-2348.	3.5	12
2878	A novel swarm intelligence algorithm inspired by the grazing of sheep. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2022, 13, 1201-1213.	3.3	20
2879	ENDÄceSTRÄ°YEL BÄ°YOLOJÄ°K FERMANTASYON Ä°ÄžLEMÄ° Ä°Ä±Ä°N DENG E OPTÄ°MÄ°ZASYON ALGORÄ°TMASIYLA KONTROLÄ°R-TASARIMI. <i>Konya Journal of Engineering Sciences</i> , 2021, 9, 164-179.	0.1	0
2880	An Improved Gray Wolf Optimization Algorithm to Solve Engineering Problems. <i>Sustainability</i> , 2021, 13, 3208.	1.6	35

#	ARTICLE	IF	CITATIONS
2881	A hybrid sperm swarm optimization and gravitational search algorithm (HSSOGSA) for global optimization. <i>Neural Computing and Applications</i> , 2021, 33, 11739-11752.	3.2	37
2882	Optimal energy management of micro grid connected system: A hybrid approach. <i>International Journal of Energy Research</i> , 2021, 45, 12758-12772.	2.2	5
2883	A Novel Quantum Firefly Algorithm for Global Optimization. <i>Arabian Journal for Science and Engineering</i> , 2021, 46, 8741-8759.	1.7	6
2884	Barium Titanate Semiconductor Band Gap Characterization through Gravitationally Optimized Support Vector Regression and Extreme Learning Machine Computational Methods. <i>Mathematical Problems in Engineering</i> , 2021, 2021, 1-12.	0.6	10
2885	hSMA-PS: a novel memetic approach for numerical and engineering design challenges. <i>Engineering With Computers</i> , 2022, 38, 3513-3547.	3.5	13
2886	Review of swarm intelligence-based feature selection methods. <i>Engineering Applications of Artificial Intelligence</i> , 2021, 100, 104210.	4.3	244
2887	Damage detection in nonlinear vibrating structures using model updating. <i>Engineering With Computers</i> , 2022, 38, 3567-3594.	3.5	3
2888	A self-adaptive Harris Hawks optimization algorithm with opposition-based learning and chaotic local search strategy for global optimization and feature selection. <i>International Journal of Machine Learning and Cybernetics</i> , 2022, 13, 309-336.	2.3	79
2889	Parameter Extraction of Photovoltaic Module Using Tunicate Swarm Algorithm. <i>Electronics (Switzerland)</i> , 2021, 10, 878.	1.8	29
2890	Artificial electric field algorithm with inertia and repulsion for spherical minimum spanning tree. <i>Applied Intelligence</i> , 2022, 52, 195-214.	3.3	12
2891	An Explosion Based Algorithm to Solve the Optimization Problem in Quadcopter Control. <i>Aerospace</i> , 2021, 8, 125.	1.1	0
2892	An enhanced chimp optimization algorithm for continuous optimization domains. <i>Complex & Intelligent Systems</i> , 2022, 8, 65-82.	4.0	51
2893	A New Two-Stage Algorithm for Solving Optimization Problems. <i>Entropy</i> , 2021, 23, 491.	1.1	25
2894	Design of Approximately Linear Phase Low Pass IIR Digital Differentiator using Differential Evolution Optimization Algorithm. <i>Circuits, Systems, and Signal Processing</i> , 2021, 40, 5054-5076.	1.2	8
2895	An improved salp swarm algorithm for complex multi-modal problems. <i>Soft Computing</i> , 2021, 25, 10441-10465.	2.1	11
2896	A hybrid Harris hawks-moth-flame optimization algorithm including fractional-order chaos maps and evolutionary population dynamics. <i>Advances in Engineering Software</i> , 2021, 154, 102973.	1.8	42
2897	Applying hybrid artificial algorithms to the estimation of river flow: a case study of Karkheh catchment area. <i>Arabian Journal of Geosciences</i> , 2021, 14, 1.	0.6	10
2898	Heat transfer relation-based optimization algorithm (HTOA). <i>Soft Computing</i> , 2021, 25, 8129-8158.	2.1	19

#	ARTICLE	IF	CITATIONS
2899	Task Scheduling in Cloud Computing based on Meta-heuristics: Review, Taxonomy, Open Challenges, and Future Trends. <i>Swarm and Evolutionary Computation</i> , 2021, 62, 100841.	4.5	163
2900	Multi-level parallel chaotic Jaya optimization algorithms for solving constrained engineering design problems. <i>Journal of Supercomputing</i> , 2021, 77, 12280-12319.	2.4	12
2901	Seagull-Cuckoo Search Algorithm for Function Optimization. , 2021, , .		4
2902	Flower pollination algorithm-based I/Q phase imbalance compensation strategy. <i>Review of Scientific Instruments</i> , 2021, 92, 044704.	0.6	0
2903	Search Patterns Based on Trajectories Extracted from the Response of Second-Order Systems. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 3430.	1.3	3
2904	A hybrid differential evolution based on gaining–sharing knowledge algorithm and harris hawks optimization. <i>PLoS ONE</i> , 2021, 16, e0250951.	1.1	5
2905	A novel hybrid predictive maintenance model based on clustering, smote and multi-layer perceptron neural network optimised with grey wolf algorithm. <i>SN Applied Sciences</i> , 2021, 3, 1.	1.5	13
2906	Sine cosine adopted Harris' hawks optimization for function optimization and power system frequency controller design. <i>International Transactions on Electrical Energy Systems</i> , 2021, 31, e12915.	1.2	6
2907	A New Set of Mutation Operators for Dragonfly Algorithm. <i>Arabian Journal for Science and Engineering</i> , 2021, 46, 8761-8802.	1.7	2
2908	Efficient fractional-order modified Harris hawks optimizer for proton exchange membrane fuel cell modeling. <i>Engineering Applications of Artificial Intelligence</i> , 2021, 100, 104193.	4.3	35
2909	Advanced metaheuristic optimization techniques in applications of deep neural networks: a review. <i>Neural Computing and Applications</i> , 2021, 33, 14079-14099.	3.2	60
2910	A novel gaussian based particle swarm optimization gravitational search algorithm for feature selection and classification. <i>Neural Computing and Applications</i> , 2021, 33, 12301-12315.	3.2	8
2911	An improved multi-objective optimization algorithm with mixed variables for automobile engine hood lightweight design. <i>Journal of Mechanical Science and Technology</i> , 2021, 35, 2073-2082.	0.7	8
2912	Minimum Free Energy Coding for DNA Storage. <i>IEEE Transactions on Nanobioscience</i> , 2021, 20, 212-222.	2.2	34
2913	Multi-objective hybrid genetic algorithm for task scheduling problem in cloud computing. <i>Neural Computing and Applications</i> , 2021, 33, 13075-13088.	3.2	44
2914	Mathematical formulation and hybrid meta–heuristic algorithms for multiproduct oil pipeline scheduling problem with tardiness penalties. <i>Concurrency Computation Practice and Experience</i> , 2021, 33, e6299.	1.4	2
2915	Bio-Inspired Algorithms and Its Applications for Optimization in Fuzzy Clustering. <i>Algorithms</i> , 2021, 14, 122.	1.2	25
2916	Optimal Crop Selection Using Gravitational Search Algorithm. <i>Mathematical Problems in Engineering</i> , 2021, 2021, 1-14.	0.6	1

#	ARTICLE	IF	CITATIONS
2917	A novel approach for natureâ€based optimization algorithms: The threat factor approach. <i>Concurrency Computation Practice and Experience</i> , 2021, 33, e6341.	1.4	0
2918	An efficient framework for integrating distributed generation and capacitor units for simultaneous gridâ€connected and islanded network operations. <i>International Journal of Energy Research</i> , 2021, 45, 14920-14958.	2.2	8
2919	A gravitational search algorithm with hierarchy and distributed framework. <i>Knowledge-Based Systems</i> , 2021, 218, 106877.	4.0	56
2920	A comprehensive survey on cultural algorithms. <i>Swarm and Evolutionary Computation</i> , 2021, 62, 100846.	4.5	19
2921	An ensemble approach of improved quantum inspired gravitational search algorithm and hybrid deep neural networks for computational optimization. <i>International Journal of Modern Physics C</i> , 2021, 32, 2150100.	0.8	7
2922	The Arithmetic Optimization Algorithm. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 376, 113609.	3.4	1,513
2923	An improved atom search optimization with dynamic opposite learning and heterogeneous comprehensive learning. <i>Applied Soft Computing Journal</i> , 2021, 103, 107140.	4.1	15
2924	A grade point average assessment of analytical and numerical methods for parameter extraction of a practical PV device. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 142, 110826.	8.2	9
2925	Constriction coefficient based particle swarm optimization and gravitational search algorithm for multilevel image thresholding. <i>Expert Systems</i> , 2021, 38, e12717.	2.9	20
2926	Group-based synchronous-asynchronous Grey Wolf Optimizer. <i>Applied Mathematical Modelling</i> , 2021, 93, 226-243.	2.2	17
2927	Higher order ANN parameter optimization using hybrid opposition-elitism based metaheuristic. <i>Evolutionary Intelligence</i> , 2022, 15, 2055-2075.	2.3	2
2928	Detection of malicious Android applications using Ontology-based intelligent model in mobile cloud environment. <i>Journal of Information Security and Applications</i> , 2021, 58, 102751.	1.8	6
2929	A novel improved atom search optimization algorithm for designing power system stabilizer. <i>Evolutionary Intelligence</i> , 2022, 15, 2089-2103.	2.3	32
2930	AIGSA-based multi-jammer localization in wireless networks. <i>Applied Soft Computing Journal</i> , 2021, 103, 107131.	4.1	4
2931	Material Generation Algorithm: A Novel Metaheuristic Algorithm for Optimization of Engineering Problems. <i>Processes</i> , 2021, 9, 859.	1.3	67
2932	Differential gradient evolution plus algorithm for constraint optimization problems: A hybrid approach. <i>International Journal of Optimization and Control: Theories and Applications</i> , 2021, 11, 158-177.	0.8	5
2933	Research on a new optimization algorithm simulating multi- states of matter inspired by finite element analysis approach. <i>Applied Intelligence</i> , 0, , 1.	3.3	0
2934	Summarization of legal documents: Where are we now and the way forward. <i>Computer Science Review</i> , 2021, 40, 100388.	10.2	24

#	ARTICLE	IF	CITATIONS
2935	A New Algorithm to Estimate the Parameters of Nonlinear Regression. Journal of Physics: Conference Series, 2021, 1879, 032042.	0.3	1
2936	Artificial neural network integrated with bio-inspired approach for optimal VAR management and voltage profile enhancement in grid system. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2021, 43, 2838-2859.	1.2	7
2937	A New "Good and Bad Groups-Based Optimizer" for Solving Various Optimization Problems. Applied Sciences (Switzerland), 2021, 11, 4382.	1.3	11
2938	Generation of Synthetic Chest X-ray Images and Detection of COVID-19: A Deep Learning Based Approach. Diagnostics, 2021, 11, 895.	1.3	39
2939	An effective solution to numerical and multi-disciplinary design optimization problems using chaotic slime mold algorithm. Engineering With Computers, 2022, 38, 2739-2777.	3.5	18
2940	Software defect prediction based on stacked sparse denoising autoencoders and enhanced extreme learning machine. IET Software, 2022, 16, 29-47.	1.5	6
2941	Advances of metaheuristic algorithms in training neural networks for industrial applications. Soft Computing, 2021, 25, 11209-11233.	2.1	29
2942	Improvement of Firefly Algorithm using Particle Swarm Optimization and Gravitational Search Algorithm. Journal of Information Systems and Telecommunication, 2021, 9, 123-130.	0.2	0
2943	Robust Clustering Routing Method for Wireless Sensor Networks Considering the Locust Search Scheme. Energies, 2021, 14, 3019.	1.6	11
2944	A Shuffle-Based Artificial Bee Colony Algorithm for Solving Integer Programming and Minimax Problems. Mathematics, 2021, 9, 1211.	1.1	13
2945	A novel search space reduction optimization algorithm. Soft Computing, 2021, 25, 9455-9482.	2.1	17
2946	Pinhole-imaging-based learning butterfly optimization algorithm for global optimization and feature selection. Applied Soft Computing Journal, 2021, 103, 107146.	4.1	63
2947	Lichtenberg algorithm: A novel hybrid physics-based meta-heuristic for global optimization. Expert Systems With Applications, 2021, 170, 114522.	4.4	104
2948	A New Design of Metaheuristic Search Called Improved Monkey Algorithm Based on Random Perturbation for Optimization Problems. Scientific Programming, 2021, 2021, 1-14.	0.5	2
2949	Network anomaly detection in a controlled environment based on an enhanced PSO/SARFC. Computers and Security, 2021, 104, 102225.	4.0	16
2950	Solving continuous optimization problems using the tree seed algorithm developed with the roulette wheel strategy. Expert Systems With Applications, 2021, 170, 114579.	4.4	11
2951	An optimized robust watermarking technique using CKGSA in frequency domain. Journal of Information Security and Applications, 2021, 58, 102734.	1.8	18
2952	A Comprehensive Review on Scatter Search: Techniques, Applications, and Challenges. Mathematical Problems in Engineering, 2021, 2021, 1-21.	0.6	15

#	ARTICLE	IF	CITATIONS
2953	Influence of Wind Power on Modeling of Bidding Strategy in a Promising Power Market with a Modified Gravitational Search Algorithm. Applied Sciences (Switzerland), 2021, 11, 4438.	1.3	14
2954	The Colony Predation Algorithm. Journal of Bionic Engineering, 2021, 18, 674-710.	2.7	365
2955	A modified equilibrium optimizer using opposition-based learning and novel update rules. Expert Systems With Applications, 2021, 170, 114575.	4.4	38
2957	Development and application of Quantum Entanglement inspired Particle Swarm Optimization. Knowledge-Based Systems, 2021, 219, 106859.	4.0	24
2958	Investigation on magnetostrictive behaviour of a converter transformer influenced by dominant harmonics: A FEM and ANN based approach. International Transactions on Electrical Energy Systems, 2021, 31, e12957.	1.2	2
2959	Niching Grey Wolf Optimizer for Multimodal Optimization Problems. Applied Sciences (Switzerland), 2021, 11, 4795.	1.3	13
2960	Determination of Aquaponic Water Macronutrient Concentrations Based on Lactuca Sativa Leaf Photosynthetic Signatures using Hybrid Gravitational Search and Recurrent Neural Network. Walailak Journal of Science and Technology, 2021, 18, .	0.5	12
2961	Tool wear prediction in milling based on a GSA-BP model with a multisensor fusion method. International Journal of Advanced Manufacturing Technology, 2021, 114, 3793-3802.	1.5	18
2962	Political optimizer with interpolation strategy for global optimization. PLoS ONE, 2021, 16, e0251204.	1.1	8
2963	A chaotic grey wolf optimizer for constrained optimization problems. Expert Systems, 2023, 40, e12719.	2.9	6
2964	GMBO: Group Mean-Based Optimizer for Solving Various Optimization Problems. Mathematics, 2021, 9, 1190.	1.1	14
2965	An improved particle swarm optimization with backtracking search optimization algorithm for solving continuous optimization problems. Engineering With Computers, 2022, 38, 2797-2831.	3.5	62
2966	Hybrid Algorithm for Tuning Feature Weights in a Fuzzy Classifier. , 2021, , .		1
2967	An Intensive and Comprehensive Overview of JAYA Algorithm, its Versions and Applications. Archives of Computational Methods in Engineering, 2022, 29, 763-792.	6.0	82
2968	A hierarchical knowledge guided backtracking search algorithm with self-learning strategy. Engineering Applications of Artificial Intelligence, 2021, 102, 104268.	4.3	9
2969	Time suboptimal formation flying manoeuvres through improved magnetic charged system search. Advances in Space Research, 2021, 67, 3462-3477.	1.2	0
2970	Enhanced grasshopper optimization algorithm using elite opposition-based learning for solving real-world engineering problems. Engineering With Computers, 2022, 38, 4207-4219.	3.5	94
2971	Damage detection in steel plates using feed-forward neural network coupled with hybrid particle swarm optimization and gravitational search algorithm. Journal of Zhejiang University: Science A, 2021, 22, 467-480.	1.3	4

#	ARTICLE	IF	CITATIONS
2972	Performance optimization of UAV-based IoT communications using a novel constrained gravitational search algorithm. <i>Neural Computing and Applications</i> , 2021, 33, 15557-15568.	3.2	2
2973	Enhanced texture classification through feature compaction using dihybrid bio-inspired computation techniques. <i>Concurrency Computation Practice and Experience</i> , 0, , e6453.	1.4	1
2974	Novel computer-aided lung cancer detection based on convolutional neural network-based and feature-based classifiers using metaheuristics. <i>International Journal of Imaging Systems and Technology</i> , 2021, 31, 1954-1969.	2.7	49
2975	Salt content in saline-alkali soil detection using visible-near infrared spectroscopy and a 2D deep learning. <i>Microchemical Journal</i> , 2021, 165, 106182.	2.3	16
2976	Applications of new hybrid algorithm based on advanced cuckoo search and adaptive Gaussian quantum behaved particle swarm optimization in solving ordinary differential equations. <i>Expert Systems With Applications</i> , 2021, 172, 114646.	4.4	44
2977	Pseudo inspired gravitational search algorithm for optimal sizing of grid with integrated renewable energy and energy storage. <i>Journal of Energy Storage</i> , 2021, 38, 102565.	3.9	5
2978	Memetic Harris Hawks Optimization: Developments and perspectives on project scheduling and QoS-aware web service composition. <i>Expert Systems With Applications</i> , 2021, 171, 114529.	4.4	53
2979	A comprehensive survey of sine cosine algorithm: variants and applications. <i>Artificial Intelligence Review</i> , 2021, 54, 5469-5540.	9.7	83
2980	Economic Load Dispatch Using Jellyfish Search Optimizer. , 2021, , .		2
2981	Improved Grey Wolf Optimizer Algorithm for PIDF Controller for AGC of Multi-Area Multi-Source Interconnected Power System. , 2021, , .		4
2982	Wild horse optimizer: a new meta-heuristic algorithm for solving engineering optimization problems. <i>Engineering With Computers</i> , 2022, 38, 3025-3056.	3.5	150
2983	Expeditious COVID-19 similarity measure tool based on consolidated SCA algorithm with mutation and opposition operators. <i>Applied Soft Computing Journal</i> , 2021, 104, 107197.	4.1	8
2984	Electrical Load Prediction Using Interval Type-2 Atanassov Intuitionist Fuzzy System: Gravitational Search Algorithm Tuning Approach. <i>Energies</i> , 2021, 14, 3591.	1.6	4
2985	Generalized refined composite multiscale fuzzy entropy and multi-cluster feature selection based intelligent fault diagnosis of rolling bearing. <i>ISA Transactions</i> , 2022, 123, 136-151.	3.1	44
2986	A novel hybrid gravitational search particle swarm optimization algorithm. <i>Engineering Applications of Artificial Intelligence</i> , 2021, 102, 104263.	4.3	34
2987	A Pairwise T-Way Test Suite Generation Strategy Using Gravitational Search Algorithm. , 2021, , .		3
2988	Parallel Quadri-valent Quantum-Inspired Gravitational Search Algorithm on a heterogeneous platform for wireless sensor networks. <i>Computers and Electrical Engineering</i> , 2021, 92, 107085.	3.0	6
2989	Stock exchange trading optimization algorithm: a human-inspired method for global optimization. <i>Journal of Supercomputing</i> , 2022, 78, 2125-2174.	2.4	29

#	ARTICLE	IF	CITATIONS
2991	Simplified Phasmatodea population evolution algorithm for optimization. <i>Complex & Intelligent Systems</i> , 2022, 8, 2749-2767.	4.0	36
2992	An application of the whale optimization algorithm with Levy flight strategy for clustering of medical datasets. <i>International Journal of Optimization and Control: Theories and Applications</i> , 2021, 11, 216-226.	0.8	2
2993	A Systematic Assessment of Numerical Association Rule Mining Methods. <i>SN Computer Science</i> , 2021, 2, 1.	2.3	25
2994	GSA-RPI: GSA based Rendezvous Point Identification in a two-level cluster based LR-WPAN for uncovering the optimal trajectory of Mobile Data Collection Agent. <i>Journal of Network and Computer Applications</i> , 2021, 183-184, 103048.	5.8	4
2995	An Improved Whale Optimization Algorithm Based on Nonlinear Function and Local Search. , 2021, , .		0
2996	Dynamic crow search algorithm based on adaptive parameters for large-scale global optimization. <i>Evolutionary Intelligence</i> , 2022, 15, 2153-2169.	2.3	8
2997	An Intelligent System for Multi-Label Classification Based on Particle Size and Shape Features using a Cascade Approach. , 2021, , .		1
2998	Application of metaheuristics for signal optimisation in transportation networks: A comprehensive survey. <i>Swarm and Evolutionary Computation</i> , 2021, 63, 100865.	4.5	10
2999	Grey wolf optimizer and other metaheuristic optimization techniques with image processing as their applications: a review. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021, 1136, 012053.	0.3	6
3000	Hazelnut tree search algorithm: a nature-inspired method for solving numerical and engineering problems. <i>Engineering With Computers</i> , 2022, 38, 3191-3215.	3.5	6
3001	Deep neural networks-based classification optimization by reducing the feature dimensionality with the variants of gravitational search algorithm. <i>International Journal of Modern Physics C</i> , 2021, 32, 2150137.	0.8	7
3002	Dingo Optimizer: A Nature-Inspired Metaheuristic Approach for Engineering Problems. <i>Mathematical Problems in Engineering</i> , 2021, 2021, 1-12.	0.6	89
3003	A novel quantum inspired hybrid metaheuristic for dispatch of power system including solar photovoltaic generation. <i>Energy Sources, Part B: Economics, Planning and Policy</i> , 2021, 16, 558-583.	1.8	53
3004	A Hybrid Whale Optimization Algorithm for Global Optimization. <i>Mathematics</i> , 2021, 9, 1477.	1.1	18
3005	Improved grey wolf algorithm for optimization problems. <i>Indonesian Journal of Electrical Engineering and Computer Science</i> , 2021, 22, 1573.	0.7	0
3006	An Arduino Based On-Site Monitoring and Gravitational Search Algorithm Based Parameter Estimation for PV Module. , 2021, 6, 805-818.		5
3007	Case-based reasoning adaptation based on fuzzy gravitational search algorithm for disaster emergency plan. <i>Journal of Intelligent and Fuzzy Systems</i> , 2021, 40, 11007-11022.	0.8	2
3008	A memory-based gravitational search algorithm for solving economic dispatch problem in micro-grid. <i>Ain Shams Engineering Journal</i> , 2021, 12, 1985-1994.	3.5	66

#	ARTICLE	IF	CITATIONS
3009	Multi-swarm and chaotic whale-particle swarm optimization algorithm with a selection method based on roulette wheel. Expert Systems, 2021, 38, e12779.	2.9	30
3010	A Complex-valued Encoding Seeker Optimization Algorithm for Constrained Engineering Problems. WSEAS Transactions on Circuits and Systems, 2021, 20, 173-195.	0.1	1
3011	A nonlinear model predictive controller based on the gravitational search algorithm. Optimal Control Applications and Methods, 2021, 42, 1734-1761.	1.3	3
3012	Resource Management of Heterogeneous Cellular Networks With Hybrid Energy Supplies: A Multi-Objective Optimization Approach. IEEE Transactions on Wireless Communications, 2021, 20, 4392-4405.	6.1	14
3013	Hybrid algorithms based on combining reinforcement learning and metaheuristic methods to solve global optimization problems. Knowledge-Based Systems, 2021, 223, 107044.	4.0	63
3014	Hybrid Genetic Algorithm-Gravitational Search Algorithm to Optimize Multi-Scale Load Dispatch. International Journal of Applied Metaheuristic Computing, 2021, 12, 28-53.	0.5	1
3015	A hybrid meta-heuristic task scheduling algorithm based on genetic and thermodynamic simulated annealing algorithms in cloud computing environments. Neural Computing and Applications, 2021, 33, 16951-16984.	3.2	33
3016	Analysis of Wideband Second-Order Microwave Integrators. , 0, , .		0
3017	Aquila Optimizer: A novel meta-heuristic optimization algorithm. Computers and Industrial Engineering, 2021, 157, 107250.	3.4	1,209
3018	A Gravitational Search Algorithm-Based Controller for Multiarea Power Systems: Conventional and Renewable Sources With Variable Load Disturbances and Perturbed System Parameters. IEEE Systems, Man, and Cybernetics Magazine, 2021, 7, 20-38.	1.2	4
3019	An efficient multilevel thresholding based satellite image segmentation approach using a new adaptive cuckoo search algorithm. Expert Systems With Applications, 2021, 174, 114633.	4.4	25
3020	GSA-SOM: A metaheuristic optimisation algorithm guided by machine learning and application to aerodynamic design. , 2021, , .		1
3021	Hybrid Modified Whale Optimisation Algorithm Simulated Annealing Technique for Control of SRM. International Journal of Applied Metaheuristic Computing, 2021, 12, 123-147.	0.5	1
3022	Gaussian Perturbation Specular Reflection Learning and Golden-Sine-Mechanism-Based Elephant Herding Optimization for Global Optimization Problems. Computational Intelligence and Neuroscience, 2021, 2021, 1-25.	1.1	6
3023	Artificial gorilla troops optimizer: A new nature-inspired metaheuristic algorithm for global optimization problems. International Journal of Intelligent Systems, 2021, 36, 5887-5958.	3.3	471
3024	A hybrid interval prediction model for the PQ index using a lower upper bound estimation-based extreme learning machine. Soft Computing, 2021, 25, 11551-11571.	2.1	1
3025	Hybrid transmission expansion planning and reactive power planning considering the real network uncertainties. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2022, 35, e2937.	1.2	4
3026	Population-based optimization in structural engineering: a review. Artificial Intelligence Review, 2022, 55, 345-452.	9.7	26

#	ARTICLE	IF	CITATIONS
3027	Cat and Mouse Based Optimizer: A New Nature-Inspired Optimization Algorithm. <i>Sensors</i> , 2021, 21, 5214.	2.1	52
3028	Solving Dirichlet boundary problems for ODEs via swarm intelligence. <i>Mathematical Sciences</i> , 2022, 16, 325-341.	1.0	2
3029	Modified Flower Pollination Algorithm for Global Optimization. <i>Mathematics</i> , 2021, 9, 1661.	1.1	22
3030	Opposition-based Laplacian Equilibrium Optimizer with application in Image Segmentation using Multilevel Thresholding. <i>Expert Systems With Applications</i> , 2021, 174, 114766.	4.4	53
3031	Stability of salp swarm algorithm with random replacement and double adaptive weighting. <i>Applied Mathematical Modelling</i> , 2021, 95, 503-523.	2.2	20
3032	Meta-heuristic Algorithms for Resource Allocation in Cloud. <i>Journal of Physics: Conference Series</i> , 2021, 1969, 012047.	0.3	1
3033	Binary fish migration optimization for solving unit commitment. <i>Energy</i> , 2021, 226, 120329.	4.5	64
3034	A New Method for Estimating Diagnostic Parameters in the Dynamics Model of Modified Glucose-Insulin Homeostasis from the Oral Glucose Tolerance Test Using a Gravitational Search Algorithm. <i>Arabian Journal for Science and Engineering</i> , 2022, 47, 989-1001.	1.7	2
3035	An improved multi-objective gravitational search algorithm. <i>Journal of Physics: Conference Series</i> , 2021, 1978, 012029.	0.3	0
3036	Teamwork Optimization Algorithm: A New Optimization Approach for Function Minimization/Maximization. <i>Sensors</i> , 2021, 21, 4567.	2.1	55
3037	R-GWO: Representative-based grey wolf optimizer for solving engineering problems. <i>Applied Soft Computing Journal</i> , 2021, 106, 107328.	4.1	57
3038	An Optimization-Based Strategy for Solving Optimal Power Flow Problems in a Power System Integrated with Stochastic Solar and Wind Power Energy. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 6883.	1.3	23
3040	A Comparative Study of Common Nature-Inspired Algorithms for Continuous Function Optimization. <i>Entropy</i> , 2021, 23, 874.	1.1	29
3041	An improved whale optimization algorithm for locating critical slip surface of slopes. <i>Advances in Engineering Software</i> , 2021, 157-158, 103009.	1.8	15
3042	Performance evaluation of population-based metaheuristic algorithms and decision-making for multi-objective optimization of building design. <i>Building and Environment</i> , 2021, 198, 107855.	3.0	26
3043	Gravitational search algorithm based strategy for combinatorial t-way test suite generation. <i>Journal of King Saud University - Computer and Information Sciences</i> , 2022, 34, 4860-4873.	2.7	1
3044	Spatial bound whale optimization algorithm: an efficient high-dimensional feature selection approach. <i>Neural Computing and Applications</i> , 2021, 33, 16229-16250.	3.2	33
3045	An improved elephant herding optimization for global optimization problems. <i>Engineering With Computers</i> , 2022, 38, 3489-3521.	3.5	9

#	ARTICLE	IF	CITATIONS
3046	State-of-the-Art of Optimal Active and Reactive Power Flow: A Comprehensive Review from Various Standpoints. Processes, 2021, 9, 1319.	1.3	33
3047	Chameleon Swarm Algorithm: A bio-inspired optimizer for solving engineering design problems. Expert Systems With Applications, 2021, 174, 114685.	4.4	196
3048	Imaging lens design with the aid of an ant colony algorithm. Journal of Optics (India), 2021, 50, 644-655.	0.8	1
3049	Atmospheric PM2.5 Prediction Using DeepAR Optimized by Sparrow Search Algorithm with Opposition-Based and Fitness-Based Learning. Atmosphere, 2021, 12, 894.	1.0	10
3050	A Comparison Between GSA and IGSA for Optimal Allocation and Sizing of DG and Impact to Voltage Stability Margin in Electrical Distribution System. Journal of Electrical Engineering and Technology, 2021, 16, 2949-2966.	1.2	2
3051	Classification of abnormal location in medium voltage switchgears using hybrid gravitational search algorithm-artificial intelligence. PLoS ONE, 2021, 16, e0253967.	1.1	1
3052	Micro, Small, and Medium Enterprisesâ€™ Business Vulnerability Cluster in Indonesia: An Analysis Using Optimized Fuzzy Geodemographic Clustering. Sustainability, 2021, 13, 7807.	1.6	14
3053	Dynamic FDB selection method and its application: modeling and optimizing of directional overcurrent relays coordination. Applied Intelligence, 2022, 52, 4873-4908.	3.3	26
3054	An advanced Hybrid Algorithm for Engineering Design Optimization. Neural Processing Letters, 0, , 1.	2.0	3
3055	Equilibrium optimizer of interswarm interactive learning strategy. Enterprise Information Systems, 2023, 17, .	3.3	4
3056	HCS-BBD. , 2021, , .		3
3057	Crack identification in laminated composites based on modal responses using metaheuristics, artificial neural networks and response surface method: a comparative study. Archive of Applied Mechanics, 2021, 91, 4389-4408.	1.2	12
3058	Hybrid slime mould algorithm with adaptive guided differential evolution algorithm for combinatorial and global optimization problems. Expert Systems With Applications, 2021, 174, 114689.	4.4	107
3059	An Improved Grey Wolf Optimizer with Hyperbolic Tangent Updating Mechanism for Solving Optimization Problems. Lecture Notes in Electrical Engineering, 2022, , 451-462.	0.3	0
3060	A modified whale optimization algorithm to overcome delayed convergence in artificial neural networks. Soft Computing, 2021, 25, 10275-10286.	2.1	17
3061	Linear prediction evolution algorithm: a simplest evolutionary optimizer. Memetic Computing, 2021, 13, 319-339.	2.7	8
3062	Comparison between SSA and SSO algorithm inspired in the behavior of the social spider for constrained optimization. Artificial Intelligence Review, 2021, 54, 5583-5631.	9.7	3
3063	Binary MCGWO Based On Competition and Teaching for Computationally Complex Engineering Applications. , 2021, , .		1

#	ARTICLE	IF	CITATIONS
3064	Population management in metaheuristic algorithms: Could less be more?. Applied Soft Computing Journal, 2021, 107, 107389.	4.1	12
3065	Advanced arithmetic optimization algorithm for solving mechanical engineering design problems. PLoS ONE, 2021, 16, e0255703.	1.1	64
3066	Effective forecasting of stock market price by using extreme learning machine optimized by PSO-based group oriented crow search algorithm. Neural Computing and Applications, 2022, 34, 555-591.	3.2	15
3067	Optimization of a deteriorated two-warehouse inventory problem with all-unit discount and shortages via tournament differential evolution. Applied Soft Computing Journal, 2021, 107, 107388.	4.1	21
3068	Global Optimizasyon iÅŸin Yeni Bir Hibrit YÄ¶ntem: Kaya KartalÄ± Optimizasyonu-Tanjant Arama AlgoritmasÄ±. FÄ±rat Äœniversitesi MÄ¼hendislik Bilimleri Dergisi, 0, , .	0.2	1
3069	Hybrid Multi-Verse Optimizer for Covid19 Confirmed Cases Prediction: Cases in Malaysia. , 2021, , .		2
3070	African vultures optimization algorithm: A new nature-inspired metaheuristic algorithm for global optimization problems. Computers and Industrial Engineering, 2021, 158, 107408.	3.4	602
3071	Soil Erosion Prediction Based on Moth-Flame Optimizer-Evolved Kernel Extreme Learning Machine. Electronics (Switzerland), 2021, 10, 2115.	1.8	3
3073	A Generic Model for Swarm Intelligence and Its Validations. WSEAS Transactions on Information Science and Applications, 2021, 18, 116-130.	0.2	0
3074	Energy Efficient Scheduling in Cloud Computing using Black Widow Optimization. Journal of Physics: Conference Series, 2021, 1950, 012063.	0.3	1
3075	Analysis and improvement of GSAâ€™s optimization process. Applied Soft Computing Journal, 2021, 107, 107367.	4.1	5
3076	Artificial bee colony algorithm with directed scout. Soft Computing, 2021, 25, 13567-13593.	2.1	7
3077	Cooperative meta-heuristic algorithms for global optimization problems. Expert Systems With Applications, 2021, 176, 114788.	4.4	14
3078	Mixed Best Members Based Optimizer for Solving Various Optimization Problems. International Journal of Intelligent Engineering and Systems, 2021, 14, 384-392.	0.8	4
3079	A Learning-Based Hybrid Framework for Dynamic Balancing of Exploration-Exploitation: Combining Regression Analysis and Metaheuristics. Mathematics, 2021, 9, 1976.	1.1	3
3080	An effective MIP model based on grey wolf optimizer for lot-sizing LTPSOP in open-pit mines under uncertainty. Arabian Journal of Geosciences, 2021, 14, 1.	0.6	1
3081	A novel meta-heuristic algorithm for solving numerical optimization problems: Ali Baba and the forty thieves. Neural Computing and Applications, 2022, 34, 409-455.	3.2	64
3082	Hiding sensitive association rules using the optimal electromagnetic optimization method and a dynamic bit vector data structure. Expert Systems With Applications, 2021, 176, 114879.	4.4	3

#	ARTICLE	IF	CITATIONS
3084	An improved Henry gas solubility optimization for optimization tasks. Applied Intelligence, 2022, 52, 5966-6006.	3.3	3
3085	Exponential evolution mechanism for in vivo computation. Swarm and Evolutionary Computation, 2021, 65, 100931.	4.5	8
3086	Emphasizing the importance of shift invariance in metaheuristics by using whale optimization algorithm as a test bed. Soft Computing, 2021, 25, 14209-14225.	2.1	3
3087	Accelerated grey wolf optimization for global optimization problems. Technological Forecasting and Social Change, 2021, 169, 120824.	6.2	13
3088	MLBO: Mixed Leader Based Optimizer for Solving Optimization Problems. International Journal of Intelligent Engineering and Systems, 2021, 14, 472-479.	0.8	7
3089	Optimized fuzzy based symbiotic organism search algorithm for engineering design problem. Evolutionary Intelligence, 2023, 16, 197-228.	2.3	1
3090	KISITLI MÄœHENDÄ°SLÄ°K PROBLEMLERÄ°NÄ°N KARÄ°ZILAÄŽTIRMALI AÄŽIRLIK VE MALÄ°YET OPTÄ°MÄ°ZASYONU. MÄ°hendis Ve Mak 0, , .	0.4	0
3091	An Improved Hybrid Aquila Optimizer and Harris Hawks Algorithm for Solving Industrial Engineering Optimization Problems. Processes, 2021, 9, 1551.	1.3	90
3092	A new meta-heuristic optimization algorithm based on a paradigm from physics: string theory. Journal of Intelligent and Fuzzy Systems, 2021, 41, 1657-1675.	0.8	10
3093	Opposition-based learning grey wolf optimizer for global optimization. Knowledge-Based Systems, 2021, 226, 107139.	4.0	86
3094	EaGWO: Extended algorithm of Grey Wolf Optimizer. Journal of Physics: Conference Series, 2021, 1998, 012028.	0.3	0
3095	Battle royale optimizer for training multi-layer perceptron. Evolving Systems, 2022, 13, 563-575.	2.4	20
3096	An improved bat algorithm hybridized with extremal optimization and Boltzmann selection. Expert Systems With Applications, 2021, 175, 114812.	4.4	24
3097	An adaptive hybrid atom search optimization with particle swarm optimization and its application to optimal no-load PID design of hydro-turbine governor. Journal of Computational Design and Engineering, 2021, 8, 1204-1233.	1.5	24
3098	An efficient modified artificial electric field algorithm for solving optimization problems and parameter estimation of fuel cell. International Journal of Energy Research, 2021, 45, 20199-20218.	2.2	31
3099	Gravity algorithm for the community detection of large-scale network. Journal of Ambient Intelligence and Humanized Computing, 2023, 14, 1217-1228.	3.3	3
3100	Application of Hybrid Metaheuristic Technique to Study Influence of Core Material and Core Trench on Performance of Surface Inset PMSM. Arabian Journal for Science and Engineering, 2022, 47, 3037-3053.	1.7	4
3101	An advanced hybrid algorithm for nonlinear function optimization with real world applications. Concurrency Computation Practice and Experience, 0, , e6551.	1.4	1

#	ARTICLE	IF	CITATIONS
3102	Differential evolution and particle swarm optimization against COVID-19. <i>Artificial Intelligence Review</i> , 2022, 55, 2149-2219.	9.7	3
3103	Research developments in adaptive intelligent vibration control of smart civil structures. <i>Journal of Low Frequency Noise Vibration and Active Control</i> , 2022, 41, 292-329.	1.3	10
3104	A variable velocity strategy particle swarm optimization algorithm (VVS-PSO) for damage assessment in structures. <i>Engineering With Computers</i> , 2023, 39, 1055-1084.	3.5	18
3105	Adaptive opposition slime mould algorithm. <i>Soft Computing</i> , 2021, 25, 14297-14313.	2.1	39
3106	A novel improved arithmetic optimization algorithm for optimal design of PID controlled and Bode's ideal transfer function based automobile cruise control system. <i>Evolving Systems</i> , 2022, 13, 453-468.	2.4	38
3107	Quantum-Inspired Meta-heuristic Algorithms with Deep Learning for Facial Expression Recognition under Varying Yaw Angles. <i>International Journal of Modern Physics C</i> , 0, , .	0.8	1
3108	Towards Precision Fertilization: Multi-Strategy Grey Wolf Optimizer Based Model Evaluation and Yield Estimation. <i>Electronics (Switzerland)</i> , 2021, 10, 2183.	1.8	6
3109	A four-step decision-making grey wolf optimization algorithm. <i>Soft Computing</i> , 2021, 25, 14375-14391.	2.1	5
3110	Improved Manta Ray Foraging Optimization for Parameters Identification of Magnetorheological Dampers. <i>Mathematics</i> , 2021, 9, 2230.	1.1	13
3111	Impacts of Renewable Sources of Energy on Bid Modeling Strategy in an Emerging Electricity Market Using Oppositional Gravitational Search Algorithm. <i>Energies</i> , 2021, 14, 5726.	1.6	11
3112	Improving Prediction Accuracy of Hydrologic Time Series by Least-Squares Support Vector Machine Using Decomposition Reconstruction and Swarm Intelligence. <i>Journal of Hydrologic Engineering - ASCE</i> , 2021, 26, 04021030.	0.8	8
3113	Optimizing reservoir operation to avoid downstream physical habitat loss using coupled ANFIS-metaheuristic model. <i>Earth Science Informatics</i> , 2021, 14, 2203-2220.	1.6	7
3114	A Hybrid SSA and SMA with Mutation Opposition-Based Learning for Constrained Engineering Problems. <i>Computational Intelligence and Neuroscience</i> , 2021, 2021, 1-21.	1.1	27
3115	A hybrid parallel Harris hawks optimization algorithm for reusable launch vehicle reentry trajectory optimization with no-fly zones. <i>Soft Computing</i> , 2021, 25, 14597-14617.	2.1	4
3116	Gradient-based grey wolf optimizer with Gaussian walk: Application in modelling and prediction of the COVID-19 pandemic. <i>Expert Systems With Applications</i> , 2021, 177, 114920.	4.4	77
3117	Chaotic hunger games search optimization algorithm for global optimization and engineering problems. <i>Mathematics and Computers in Simulation</i> , 2022, 192, 514-536.	2.4	48
3118	A corrected and improved symbiotic organisms search algorithm for continuous optimization. <i>Expert Systems With Applications</i> , 2021, 177, 114981.	4.4	6
3119	TriTSA: Triple Tree-Seed Algorithm for dimensional continuous optimization and constrained engineering problems. <i>Engineering Applications of Artificial Intelligence</i> , 2021, 104, 104303.	4.3	8

#	ARTICLE	IF	CITATIONS
3120	An Enhancing Particle Swarm Optimization Algorithm (EHVPSO) for damage identification in 3D transmission tower. <i>Engineering Structures</i> , 2021, 242, 112412.	2.6	35
3121	Energy Harvesting and Resource Allocation for Cache-Enabled UAV Based IoT NOMA Networks. <i>IEEE Transactions on Vehicular Technology</i> , 2021, 70, 9625-9630.	3.9	17
3122	A Novel Cost-Effective Controller Placement Scheme for Software-Defined Vehicular Networks. <i>IEEE Internet of Things Journal</i> , 2021, 8, 14080-14093.	5.5	9
3123	Optimized coverage-aware trajectory planning for AUVs for efficient data collection in underwater acoustic sensor networks. <i>Evolutionary Intelligence</i> , 2023, 16, 401-416.	2.3	2
3124	Boosted kernel search: Framework, analysis and case studies on the economic emission dispatch problem. <i>Knowledge-Based Systems</i> , 2021, 233, 107529.	4.0	91
3125	A novel approach to increase the share of renewable purchase obligation for planning of distribution network including grid scale energy storage. <i>International Journal of Emerging Electric Power Systems</i> , 2021, 22, 779-806.	0.6	3
3126	Potential bias when creating a differential-vector movement algorithm. <i>Applied Soft Computing Journal</i> , 2021, 113, 107925.	4.1	3
3127	Design and modeling of adaptive IIR filtering systems using a weighted sum - variable length particle swarm optimization. <i>Applied Soft Computing Journal</i> , 2021, 109, 107529.	4.1	26
3128	Maximum power extraction from a switched reluctance generator based wind power generating system using optimization techniques. <i>Engineering Reports</i> , 2022, 4, e12457.	0.9	3
3129	AIEOU: Automata-based improved equilibrium optimizer with U-shaped transfer function for feature selection. <i>Knowledge-Based Systems</i> , 2021, 228, 107283.	4.0	44
3130	Dual preferred learning embedded asynchronous differential evolution with adaptive parameters for engineering applications. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2021, 46, 1.	0.8	2
3131	Study of a New Hybrid Optimization-Based Method for Obtaining Parameter Values of Solar Cells. , 0, , .		0
3132	Optimization of slot permeance coefficient with average differential evolution algorithm for maximum torque values by minimizing reactances in induction machines. <i>Ain Shams Engineering Journal</i> , 2021, 12, 2685-2693.	3.5	3
3133	Generative design of truss systems by the integration of topology and shape optimisation. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 118, 1165-1182.	1.5	6
3134	Nonlinear-based Chaotic Harris Hawks Optimizer: Algorithm and Internet of Vehicles application. <i>Applied Soft Computing Journal</i> , 2021, 109, 107574.	4.1	54
3135	Binary Chimp Optimization Algorithm (BChOA): a New Binary Meta-heuristic for Solving Optimization Problems. <i>Cognitive Computation</i> , 2021, 13, 1297-1316.	3.6	56
3136	Hybrid seagull optimization algorithm and its engineering application integrating Yin-Yang Pair idea. <i>Engineering With Computers</i> , 2022, 38, 2821-2857.	3.5	7
3137	A new hybrid multi-level cross-entropy-based moth-flame optimization algorithm. <i>Soft Computing</i> , 2021, 25, 14245-14279.	2.1	7

#	ARTICLE	IF	CITATIONS
3138	A Bio-Inspired Method for Engineering Design Optimization Inspired by Dingoes Hunting Strategies. <i>Mathematical Problems in Engineering</i> , 2021, 2021, 1-19.	0.6	59
3139	Past present future: a new human-based algorithm for stochastic optimization. <i>Soft Computing</i> , 2021, 25, 12915-12976.	2.1	24
3140	An improved Chaotic Harris Hawks Optimizer for solving numerical and engineering optimization problems. <i>Engineering With Computers</i> , 2023, 39, 1183-1228.	3.5	18
3141	An Adaptive and Scalable Protection Coordination System of Overcurrent Relays in Distributed-Generator-Integrated Distribution Networks. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 8454.	1.3	5
3142	Ship Track Prediction Based on DLGWO-SVR. <i>Scientific Programming</i> , 2021, 2021, 1-14.	0.5	0
3143	A stock selection algorithm hybridizing grey wolf optimizer and support vector regression. <i>Expert Systems With Applications</i> , 2021, 179, 115078.	4.4	45
3144	Analysis of COVID-19 severity from the perspective of coagulation index using evolutionary machine learning with enhanced brain storm optimization. <i>Journal of King Saud University - Computer and Information Sciences</i> , 2022, 34, 4874-4887.	2.7	2
3145	Hyper-Heuristics to customise metaheuristics for continuous optimisation. <i>Swarm and Evolutionary Computation</i> , 2021, 66, 100935.	4.5	34
3146	An Enhanced Social Spider Colony Optimization for Global Optimization. <i>Smart Innovation, Systems and Technologies</i> , 2022, , 775-793.	0.5	1
3147	Modified lightning search algorithm for optimization. <i>Engineering Applications of Artificial Intelligence</i> , 2021, 105, 104419.	4.3	12
3148	An improved marine predators algorithm for shape optimization of developable Ball surfaces. <i>Engineering Applications of Artificial Intelligence</i> , 2021, 105, 104417.	4.3	70
3149	An evolutionary symbiotic organisms search for multiconstraint truss optimization under free vibration and transient behavior. <i>Advances in Engineering Software</i> , 2021, 160, 103045.	1.8	14
3150	Deep ensemble learning with non-equivalent costs of fault severities for rolling bearing diagnostics. <i>Journal of Manufacturing Systems</i> , 2021, 61, 249-264.	7.6	19
3151	Modeling wetting front redistribution of drip irrigation systems using a new machine learning method: Adaptive neuro- fuzzy system improved by hybrid particle swarm optimization “ Gravity search algorithm. <i>Agricultural Water Management</i> , 2021, 256, 107067.	2.4	30
3152	United equilibrium optimizer for solving multimodal image registration. <i>Knowledge-Based Systems</i> , 2021, 233, 107552.	4.0	9
3153	Albatross Optimization Algorithm: A Novel Nature Inspired Search Algorithm. <i>Advances in Intelligent Systems and Computing</i> , 2022, , 203-216.	0.5	1
3154	An improved opposition-based marine predators algorithm for global optimization and multilevel thresholding image segmentation. <i>Knowledge-Based Systems</i> , 2021, 229, 107348.	4.0	92
3155	Artificial intelligence techniques in refrigeration system modelling and optimization: A multi-disciplinary review. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 47, 101488.	1.7	23

#	ARTICLE	IF	CITATIONS
3156	TIMBO: Three Influential Members Based Optimizer. International Journal of Intelligent Engineering and Systems, 2021, 14, 121-128.	0.8	2
3157	RSLBO: Random Selected Leader Based Optimizer. International Journal of Intelligent Engineering and Systems, 2021, 14, 529-538.	0.8	5
3158	Improving streamflow prediction using a new hybrid ELM model combined with hybrid particle swarm optimization and grey wolf optimization. Knowledge-Based Systems, 2021, 230, 107379.	4.0	117
3159	Review of meta-heuristic algorithms for wind power prediction: Methodologies, applications and challenges. Applied Energy, 2021, 301, 117446.	5.1	81
3160	Differential evolution method integrated with a fuzzy decision-making mechanism and Virtual Mutant agent: Theory and application. Applied Soft Computing Journal, 2021, 112, 107808.	4.1	12
3161	A multi-objective algorithm for crop pattern optimization in agriculture. Applied Soft Computing Journal, 2021, 112, 107772.	4.1	21
3162	A new optimization method based on COOT bird natural life model. Expert Systems With Applications, 2021, 183, 115352.	4.4	206
3163	Harris Hawks optimisation with Simulated Annealing as a deep feature selection method for screening of COVID-19 CT-scans. Applied Soft Computing Journal, 2021, 111, 107698.	4.1	49
3164	Energy consumption prediction of appliances using machine learning and multi-objective binary grey wolf optimization for feature selection. Applied Soft Computing Journal, 2021, 111, 107745.	4.1	26
3165	Comparison of metaheuristic optimization algorithms for solving constrained mechanical design optimization problems. Expert Systems With Applications, 2021, 183, 115351.	4.4	91
3166	Boosting the oversampling methods based on differential evolution strategies for imbalanced learning. Applied Soft Computing Journal, 2021, 112, 107787.	4.1	12
3167	NFDDE: A novelty-hybrid-fitness driving differential evolution algorithm. Information Sciences, 2021, 579, 33-54.	4.0	22
3168	Enhanced Marine Predators Algorithm with Local Escaping Operator for Global Optimization. Knowledge-Based Systems, 2021, 232, 107467.	4.0	30
3169	Improved political optimizer for complex landscapes and engineering optimization problems. Expert Systems With Applications, 2021, 182, 115178.	4.4	14
3170	RUN beyond the metaphor: An efficient optimization algorithm based on Runge Kutta method. Expert Systems With Applications, 2021, 181, 115079.	4.4	552
3171	An enhanced Forensic-Based Investigation algorithm and its application to optimal design of frequency-constrained dome structures. Computers and Structures, 2021, 256, 106643.	2.4	23
3172	Design of optimal environmental flow regime at downstream of reservoirs using wetted perimeter-optimization method. Journal of Hydro-Environment Research, 2021, 39, 1-14.	1.0	8
3173	Parameter selection for CLAHE using multi-objective cuckoo search algorithm for image contrast enhancement. Intelligent Systems With Applications, 2021, 12, 200051.	1.9	15

#	ARTICLE	IF	CITATIONS
3174	Advancement of the search process of salp swarm algorithm for global optimization problems. Expert Systems With Applications, 2021, 182, 115292.	4.4	60
3175	Gamma ray interactions based optimization algorithm: Application in radioisotope identification. Nuclear Engineering and Technology, 2021, 53, 3772-3783.	1.1	2
3176	Boosting quantum rotation gate embedded slime mould algorithm. Expert Systems With Applications, 2021, 181, 115082.	4.4	48
3177	Enhanced Harris hawks optimization with multi-strategy for global optimization tasks. Expert Systems With Applications, 2021, 185, 115499.	4.4	42
3178	Adaptive boundary sine cosine optimizer with population reduction for robustness analysis of finite time horizon systems. Applied Soft Computing Journal, 2021, 113, 107900.	4.1	2
3179	Remora optimization algorithm. Expert Systems With Applications, 2021, 185, 115665.	4.4	160
3180	Solving nonlinear systems and unconstrained optimization problems by hybridizing whale optimization algorithm and flower pollination algorithm. Mathematics and Computers in Simulation, 2021, 190, 1342-1369.	2.4	21
3181	A novel version of Cuckoo search algorithm for solving optimization problems. Expert Systems With Applications, 2021, 186, 115669.	4.4	95
3182	A static semi-kitting strategy system of JIT material distribution scheduling for mixed-flow assembly lines. Expert Systems With Applications, 2021, 184, 115523.	4.4	13
3183	Performance evaluation of metaheuristics algorithms for workload prediction in cloud environment. Applied Soft Computing Journal, 2021, 113, 107895.	4.1	12
3184	Meta-Heuristic Parameter Optimization for ANN and Real-Time Applications of ANN. , 2022, , 166-201.		1
3185	AMBO: All Members-Based Optimizer for Solving Optimization Problems. Computers, Materials and Continua, 2022, 70, 2905-2921.	1.5	13
3186	A Modified Jellyfish Search Optimizer With Orthogonal Learning Strategy. Procedia Computer Science, 2021, 192, 697-708.	1.2	9
3187	Monitor system and Gaussian perturbation teachingâ€“learning-based optimization algorithm for continuous optimization problems. Journal of Ambient Intelligence and Humanized Computing, 2022, 13, 705-720.	3.3	1
3188	Optimum Sizing of Truss Structures Using a Hybrid Flower Pollinations. Springer Tracts in Nature-inspired Computing, 2021, , 113-137.	1.2	3
3189	Gravitational Search Algorithm for IIR Filter-Based Audio Equalization. , 2021, , .		2
3190	Solution of chemical dynamic optimization systems using novel differential gradient evolution algorithm. Physica Scripta, 2021, 96, 035212.	1.2	7
3191	Thresholding Algorithm Applied to Chest X-Ray Images with Pneumonia. Studies in Computational Intelligence, 2021, , 359-407.	0.7	1

#	ARTICLE	IF	CITATIONS
3192	A Survey of Metaheuristic Algorithms for Solving Optimization Problems. <i>Studies in Computational Intelligence</i> , 2021, , 515-543.	0.7	11
3193	Multi-level Thresholding Image Segmentation Based on Nature-Inspired Optimization Algorithms: A Comprehensive Review. <i>Studies in Computational Intelligence</i> , 2021, , 239-265.	0.7	10
3194	An Improved Salp Swarm Algorithm Based on Adaptive β -Hill Climbing for Stock Market Prediction. <i>Communications in Computer and Information Science</i> , 2021, , 107-121.	0.4	3
3195	An enhanced pathfinder algorithm for engineering optimization problems. <i>Engineering With Computers</i> , 2022, 38, 1481-1503.	3.5	13
3196	An Improved Equilibrium Optimizer Algorithm for Features Selection: Methods and Analysis. <i>IEEE Access</i> , 2021, 9, 120309-120327.	2.6	18
3197	nQSV-Net: a novel queuing search variant for global space search and workload modeling. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2021, 12, 27-46.	3.3	6
3198	An Extensive Review of Charged System Search Algorithm for Engineering Optimization Applications. <i>Springer Tracts in Nature-inspired Computing</i> , 2021, , 309-334.	1.2	7
3199	Dragonfly algorithm: a comprehensive survey of its results, variants, and applications. <i>Multimedia Tools and Applications</i> , 2021, 80, 14979-15016.	2.6	37
3200	An Effective Method for Parameter Estimation of a Solar Cell. <i>Electronics (Switzerland)</i> , 2021, 10, 312.	1.8	27
3201	Quantum-inspired satin bowerbird algorithm with Bloch spherical search for constrained structural optimization. <i>Journal of Industrial and Management Optimization</i> , 2021, 17, 3509.	0.8	9
3202	Crystal Structure Algorithm (CryStAl): A Metaheuristic Optimization Method. <i>IEEE Access</i> , 2021, 9, 71244-71261.	2.6	103
3203	The Solar System Algorithm: A Novel Metaheuristic Method for Global Optimization. <i>IEEE Access</i> , 2021, 9, 4542-4565.	2.6	32
3204	Analysis of Load Variation Consideration for Optimal Distributed Generation Placement. <i>International Journal of Advanced Computer Science and Applications</i> , 2021, 12, .	0.5	0
3206	An improved particle swarm optimization algorithm with adaptive weighted delay velocity. <i>Systems Science and Control Engineering</i> , 2021, 9, 188-197.	1.8	46
3207	Moth-flame optimization algorithm based on diversity and mutation strategy. <i>Applied Intelligence</i> , 2021, 51, 5836-5872.	3.3	43
3208	Chaotic Arc Adaptive Grasshopper Optimization. <i>IEEE Access</i> , 2021, 9, 17672-17706.	2.6	21
3209	Graph traversal aided detection in uplink MBM massive MIMO based on socio-cognitive knowledge of swarm optimization. <i>International Journal of Communication Systems</i> , 2021, 34, e4720.	1.6	0
3210	Meta-heuristic Approaches for Effective Scheduling in Infrastructure as a Service Cloud: A Systematic Review. <i>Journal of Network and Systems Management</i> , 2021, 29, 1.	3.3	17

#	ARTICLE	IF	CITATIONS
3211	A Metaheuristic Scheme Based on the Hunting Model of Yellow Saddle Goatfish. <i>Studies in Computational Intelligence</i> , 2021, , 11-61.	0.7	1
3212	Training Feedforward Neural Network Using Enhanced Black Hole Algorithm: A Case Study on COVID-19 Related ACE2 Gene Expression Classification. <i>Arabian Journal for Science and Engineering</i> , 2021, 46, 3807-3828.	1.7	14
3213	Constriction Coefficient-Based Particle Swarm Optimization and Gravitational Search Algorithm for Image Segmentation. <i>Profiles in Operations Research</i> , 2021, , 279-305.	0.3	2
3214	Multi-UAV Placement and User Association in Uplink MIMO Ultra-Dense Wireless Networks. <i>IEEE Transactions on Mobile Computing</i> , 2023, 22, 1615-1632.	3.9	8
3215	Optimal Sizing of Hybrid Wind and Solar Renewable Energy System. <i>Advances in Computer and Electrical Engineering Book Series</i> , 2021, , 110-148.	0.2	0
3216	Feature Selection Using Equilibrium Optimizer. <i>Advances in Intelligent Systems and Computing</i> , 2021, , 307-315.	0.5	2
3217	Random walk elephant swarm water search algorithm for identifying order-preserving submatrices in gene expression data: a new approach using elephant swarm water search algorithm. , 2021, , 211-232.		0
3218	Systematic Review of Dynamic Multi-Object Identification and Localization: Techniques and Technologies. <i>IEEE Access</i> , 2021, 9, 122924-122950.	2.6	10
3219	An efficient binary Gradient-based optimizer for feature selection. <i>Mathematical Biosciences and Engineering</i> , 2021, 18, 3813-3854.	1.0	40
3220	On the performance improvement of Butterfly Optimization approaches for global optimization and Feature Selection. <i>PLoS ONE</i> , 2021, 16, e0242612.	1.1	26
3221	An Analysis of a KNN Perturbation Operator: An Application to the Binarization of Continuous Metaheuristics. <i>Mathematics</i> , 2021, 9, 225.	1.1	12
3222	Teaching-learning-based pathfinder algorithm for function and engineering optimization problems. <i>Applied Intelligence</i> , 2021, 51, 5040-5066.	3.3	29
3223	Meta-Heuristic Parameter Optimization for ANN and Real-Time Applications of ANN. <i>Advances in Computational Intelligence and Robotics Book Series</i> , 2021, , 227-269.	0.4	2
3224	Estimation of the Number of Filters in the Convolution Layers of a Convolutional Neural Network Using a Fuzzy Logic System. <i>Studies in Computational Intelligence</i> , 2021, , 1-14.	0.7	3
3225	An improved hybrid Aquila Optimizer and Harris Hawks Optimization for global optimization. <i>Mathematical Biosciences and Engineering</i> , 2021, 18, 7076-7109.	1.0	29
3226	A Novel Cuckoo Search Algorithm and Its Application. <i>Open Journal of Applied Sciences</i> , 2021, 11, 1071-1081.	0.2	0
3227	Designing a hybrid reinforcement learning based algorithm with application in prediction of the COVID-19 pandemic in Quebec. <i>Annals of Operations Research</i> , 2022, 312, 1261-1305.	2.6	45
3228	Metaheuristic Algorithms on Feature Selection: A Survey of One Decade of Research (2009-2019). <i>IEEE Access</i> , 2021, 9, 26766-26791.	2.6	237

#	ARTICLE	IF	CITATIONS
3229	Why You Should Consider Nature-Inspired Optimization Methods in Financial Mathematics. , 2011, , 241-255.		4
3230	Comparison of Solar Cells Parameters Estimation Using Several Optimization Algorithms. Studies in Computational Intelligence, 2020, , 51-95.	0.7	4
3232	Assessment of Metaheuristic Techniques Applied to the Optimal Reactive Power Dispatch. Communications in Computer and Information Science, 2019, , 250-262.	0.4	4
3233	A Hybrid TLBO Algorithm by Quadratic Approximation for Function Optimization and Its Application. Intelligent Systems Reference Library, 2020, , 291-341.	1.0	7
3234	Artificial Intelligence Technique for Optimal Allocation of Renewable Energy Based DGs in Distribution Networks. Lecture Notes in Networks and Systems, 2020, , 409-422.	0.5	3
3235	Feature Selection in High-Dimensional Data. Advances in Intelligent Systems and Computing, 2020, , 85-128.	0.5	10
3236	Optimal Recognition Model Based on Convolutional Neural Networks and Fuzzy Gravitational Search Algorithm Method. Studies in Computational Intelligence, 2020, , 71-81.	0.7	10
3237	Filter Size Optimization on a Convolutional Neural Network Using FGSA. Studies in Computational Intelligence, 2020, , 391-403.	0.7	4
3238	Investigation of the Most Effective Meta-Heuristic Optimization Technique for Constrained Engineering Problems. Lecture Notes on Data Engineering and Communications Technologies, 2020, , 484-501.	0.5	3
3239	Histopathological Image Classification by Optimized Neural Network Using IGSA. Lecture Notes in Computer Science, 2020, , 429-436.	1.0	13
3240	Swarm Intelligence: A Review of Optimization Algorithms Based on Animal Behavior. Studies in Computational Intelligence, 2021, , 273-298.	0.7	10
3242	Solution of Optimal Reactive Power Dispatch by an Opposition-Based Gravitational Search Algorithm. Lecture Notes in Computer Science, 2013, , 558-567.	1.0	6
3243	Modified Teacher Learning Based Optimization Method for Data Clustering. Advances in Intelligent Systems and Computing, 2014, , 429-437.	0.5	14
3244	Gravitation Search Training Algorithm for Asynchronous Distributed Multilayer Perceptron Model. Lecture Notes in Electrical Engineering, 2015, , 417-423.	0.3	3
3245	Facial Emotion Recognition Using Gravitational Search Algorithm for Colored Images. Communications in Computer and Information Science, 2014, , 32-40.	0.4	2
3246	A Gravitational Search Algorithm for Optimization of Modular Neural Networks in Pattern Recognition. Studies in Computational Intelligence, 2015, , 127-137.	0.7	4
3247	WSM Tuning in Autonomous Search via Gravitational Search Algorithms. Advances in Intelligent Systems and Computing, 2015, , 159-168.	0.5	3
3248	Online Control of Enumeration Strategies via Bat-Inspired Optimization. Lecture Notes in Computer Science, 2015, , 1-10.	1.0	3

#	ARTICLE	IF	CITATIONS
3249	An Evolutionary Discrete Firefly Algorithm with Novel Operators for Solving the Vehicle Routing Problem with Time Windows. <i>Studies in Computational Intelligence</i> , 2016, , 21-41.	0.7	26
3250	A Discrete Monarch Butterfly Optimization for Chinese TSP Problem. <i>Lecture Notes in Computer Science</i> , 2016, , 165-173.	1.0	8
3251	A Gravitational Search Algorithm Using Type-2 Fuzzy Logic for Parameter Adaptation. <i>Studies in Computational Intelligence</i> , 2017, , 127-138.	0.7	4
3253	Gravitational Search Algorithm Applied to Parameter Identification for Induction Motors. <i>Intelligent Systems Reference Library</i> , 2017, , 45-57.	1.0	3
3254	OMFO: A New Opposition-Based Moth-Flame Optimization Algorithm for Solving Unconstrained Optimization Problems. <i>Advances in Intelligent Systems and Computing</i> , 2018, , 22-31.	0.5	13
3255	Dolphin Pod Optimization. <i>Lecture Notes in Computer Science</i> , 2017, , 63-70.	1.0	4
3256	Gravitational Search Algorithm in Recommendation Systems. <i>Lecture Notes in Computer Science</i> , 2017, , 597-607.	1.0	6
3257	Trends in Gravitational Search Algorithm. <i>Advances in Intelligent Systems and Computing</i> , 2018, , 270-277.	0.5	5
3258	Nature Inspired Partitioning Clustering Algorithms: A Review and Analysis. <i>Advances in Intelligent Systems and Computing</i> , 2018, , 96-116.	0.5	10
3259	Performance Optimization of a Clustering Adaptive Gravitational Search Scheme for Wireless Sensor Networks. <i>Lecture Notes in Computer Science</i> , 2017, , 420-431.	1.0	2
3261	Theory and Background. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2018, , 3-10.	0.2	2
3262	A Percentile Transition Ranking Algorithm Applied to Binarization of Continuous Swarm Intelligence Metaheuristics. <i>Advances in Intelligent Systems and Computing</i> , 2018, , 3-13.	0.5	21
3263	Dolphin Pod Optimization. <i>Lecture Notes in Computer Science</i> , 2018, , 50-62.	1.0	6
3265	Particle Swarm Optimization with Gravitational Interactions for Multimodal and Unimodal Problems. <i>Lecture Notes in Computer Science</i> , 2010, , 361-370.	1.0	3
3266	Gravitational Search Algorithm-Based Tuning of Fuzzy Control Systems with a Reduced Parametric Sensitivity. <i>Advances in Intelligent and Soft Computing</i> , 2011, , 141-150.	0.2	51
3268	Social Algorithms. , 2017, , 1-15.		1
3269	Three Evolutionary Optimization Algorithms in PI Controller Tuning. <i>Topics in Intelligent Engineering and Informatics</i> , 2012, , 95-106.	0.4	2
3270	Gravitational Search Algorithm Design of Posicast PID Control Systems. <i>Advances in Intelligent Systems and Computing</i> , 2013, , 191-199.	0.5	4

#	ARTICLE	IF	CITATIONS
3271	Mass-Dispersed Gravitational Search Algorithm for Gene Regulatory Network Model Parameter Identification. Lecture Notes in Computer Science, 2012, , 62-72.	1.0	3
3273	Multiobjective Optimization of Green Sand Mould System Using Chaotic Differential Evolution. Lecture Notes in Computer Science, 2013, , 145-163.	1.0	14
3274	A Hybrid Optimization Algorithm for Extreme Learning Machine. Lecture Notes in Electrical Engineering, 2015, , 297-306.	0.3	2
3275	Optimizing Supply Chain Management Using Gravitational Search Algorithm and Multi Agent System. Advances in Intelligent and Soft Computing, 2012, , 481-491.	0.2	5
3276	A Niching Co-swarm Gravitational Search Algorithm for Multi-modal Optimization. Advances in Intelligent Systems and Computing, 2015, , 599-607.	0.5	3
3278	Locally Informed Shuffled Frog Leaping Algorithm. Advances in Intelligent Systems and Computing, 2017, , 141-152.	0.5	4
3279	User Localization in an Indoor Environment Using Fuzzy Hybrid of Particle Swarm Optimization & Gravitational Search Algorithm with Neural Networks. Advances in Intelligent Systems and Computing, 2017, , 286-295.	0.5	54
3280	Hybridized Gravitational Search Algorithms with Real Coded Genetic Algorithms for Integer and Mixed Integer Optimization Problems. Advances in Intelligent Systems and Computing, 2017, , 84-112.	0.5	2
3281	Review on Inertia Weight Strategies for Particle Swarm Optimization. Advances in Intelligent Systems and Computing, 2017, , 76-86.	0.5	14
3282	A Multi Dynamic Binary Black Hole Algorithm Applied to Set Covering Problem. Advances in Intelligent Systems and Computing, 2017, , 42-51.	0.5	36
3284	Multiobjective Virtual Machine Selection for Task Scheduling in Cloud Computing. Advances in Intelligent Systems and Computing, 2019, , 319-331.	0.5	11
3285	Black Hole and k-Means Hybrid Clustering Algorithm. Advances in Intelligent Systems and Computing, 2020, , 403-413.	0.5	2
3286	Automatic Generation Control of a Wind Turbine Integrated Hydro-thermal Plant with Redox Flow Batteries for 2-Area Interconnected Power System. Smart Innovation, Systems and Technologies, 2020, , 411-418.	0.5	6
3287	Opposition Theory Enabled Intelligent Whale Optimization Algorithm. Lecture Notes in Electrical Engineering, 2020, , 485-493.	0.3	2
3289	Sigmoidal Spider Monkey Optimization Algorithm. Advances in Intelligent Systems and Computing, 2020, , 109-117.	0.5	8
3290	Lifetime Enhancement of Supernode Based WSNs with Optimal Size Cluster Formation by Using Gravitational Search Algorithm. Lecture Notes in Electrical Engineering, 2020, , 669-678.	0.3	1
3291	A Survey on the Latest Development of Machine Learning in Genetic Algorithm and Particle Swarm Optimization. Algorithms for Intelligent Systems, 2020, , 91-112.	0.5	4
3292	TLBO Based Cluster-Head Selection for Multi-objective Optimization in Wireless Sensor Networks. Springer Tracts in Nature-inspired Computing, 2020, , 303-319.	1.2	12

#	ARTICLE	IF	CITATIONS
3293	Recent Advances of Nature-Inspired Metaheuristic Optimization. Springer Tracts in Nature-inspired Computing, 2020, , 1-33.	1.2	3
3294	Evolutionary Artificial Neural Networks: Comparative Study on State-of-the-Art Optimizers. Springer Tracts in Nature-inspired Computing, 2020, , 302-318.	1.2	10
3295	Plant Genetics-Inspired Evolutionary Optimization: A Descriptive Tutorial. Springer Tracts in Nature-inspired Computing, 2020, , 53-77.	1.2	4
3296	Mutation-Based Chaotic Gravitational Search Algorithm. Advances in Intelligent Systems and Computing, 2020, , 117-131.	0.5	1
3297	Navigational Control Analysis of Mobile Robot in Cluttered Unknown Environment Using Novel Neural-GSA Technique. Lecture Notes in Mechanical Engineering, 2020, , 551-563.	0.3	1
3298	Optimal Reactive Power Dispatch Using Gravitational Search Algorithm to Solve IEEE-14 Bus System. Lecture Notes in Networks and Systems, 2020, , 463-473.	0.5	3
3299	Hybridization of Constriction Coefficient-Based Particle Swarm Optimization and Chaotic Gravitational Search Algorithm for Solving Engineering Design Problems. Lecture Notes in Networks and Systems, 2020, , 95-115.	0.5	8
3300	Cuckoo Search Based Backcalculation Algorithm for Estimating Layer Properties of Full-Depth Flexible Pavements. Springer Tracts in Nature-inspired Computing, 2021, , 229-252.	1.2	3
3301	A Hybrid Cuckoo Search Algorithm for Cost Optimization of Mechanically Stabilized Earth Walls. Springer Tracts in Nature-inspired Computing, 2021, , 277-306.	1.2	2
3302	Global Best Guided Crow Search Algorithm for Optimization Problems. Algorithms for Intelligent Systems, 2021, , 13-22.	0.5	3
3304	On the Potential of Numerical Association Rule Mining. Communications in Computer and Information Science, 2020, , 3-20.	0.4	16
3305	The Optimization of Computational Stock Market Model Based Complex Adaptive Cyber Physical Logistics System: A Computational Intelligence Perspective. Studies in Computational Intelligence, 2014, , 357-380.	0.7	2
3306	Nonlinear system identification based on ANFIS-Hammerstein model using Gravitational search algorithm. Applied Intelligence, 2018, 48, 182-203.	3.3	43
3307	Fuzzy Galactic Swarm Optimization with Dynamic Adjustment of Parameters Based on Fuzzy Logic. SN Computer Science, 2020, 1, 1.	2.3	12
3308	Traveling salesman problem: a perspective review of recent research and new results with bio-inspired metaheuristics. , 2020, , 135-164.		30
3309	Hierarchy cuckoo search algorithm for parameter estimation in biological systems. Chemometrics and Intelligent Laboratory Systems, 2016, 159, 97-107.	1.8	19
3310	Optimization of constrained mathematical and engineering design problems using chaos game optimization. Computers and Industrial Engineering, 2020, 145, 106560.	3.4	91
3311	Optimal design of a micro combined CHP system applying PEM fuel cell as initial mover with utilization of Developed Pathfinder Optimizer. Energy Reports, 2020, 6, 3377-3389.	2.5	13

#	ARTICLE	IF	CITATIONS
3312	A novel bat algorithm with double mutation operators and its application to low-velocity impact localization problem. <i>Engineering Applications of Artificial Intelligence</i> , 2020, 90, 103505.	4.3	22
3313	Augmented whale feature selection for IoT attacks: Structure, analysis and applications. <i>Future Generation Computer Systems</i> , 2020, 112, 18-40.	4.9	52
3314	Planning optimization and stochastic analysis of RE-DGs for techno-economic benefit maximization in distribution networks. <i>Internet of Things (Netherlands)</i> , 2020, 11, 100210.	4.9	10
3315	Comprehensive overview of maximum power point tracking algorithms of PV systems under partial shading condition. <i>Journal of Cleaner Production</i> , 2020, 268, 121983.	4.6	150
3316	Improved Black Hole optimization algorithm for data clustering. <i>Journal of King Saud University - Computer and Information Sciences</i> , 2022, 34, 5020-5029.	2.7	20
3317	Complex-valued encoding metaheuristic optimization algorithm: A comprehensive survey. <i>Neurocomputing</i> , 2020, 407, 313-342.	3.5	37
3319	Double-sided bidding strategy for power suppliers and large buyers with amalgamation of wind and solar based generation in a modern energy market. <i>IET Generation, Transmission and Distribution</i> , 2020, 14, 1031-1041.	1.4	6
3320	Optimised robust watermarking technique using CKGSA in DCT-SVD domain. <i>IET Image Processing</i> , 2020, 14, 2052-2063.	1.4	17
3321	Enhancing hosting capacity of intermittent wind turbine systems using bi-level optimisation considering OLTC and electric vehicle charging stations. <i>IET Renewable Power Generation</i> , 2020, 14, 3558-3567.	1.7	17
3322	A survey on the studies employing machine learning (ML) for enhancing artificial bee colony (ABC) optimization algorithm. <i>Cogent Engineering</i> , 2020, 7, 1855741.	1.1	7
3323	Artificial Neural Network Models for Intrusion Detection. , 2010, , 1-12.		1
3324	An Improved Slime Mold Algorithm and its Application for Optimal Operation of Cascade Hydropower Stations. <i>IEEE Access</i> , 2020, 8, 226754-226772.	2.6	45
3325	Image enhancement using hybrid GSA and Particle swarm optimization. , 2016, , .		2
3326	A Sine Cosine Algorithm Enhanced Spherical Evolution for Continuous Optimization Problems. , 2020, , .		3
3327	An Improved Sparrow Search Algorithm. , 2020, , .		22
3328	Improved spotted hyena optimizer with space transformational search for training pi-sigma higher order neural network. <i>Computational Intelligence</i> , 2020, 36, 320-350.	2.1	28
3329	Performance evaluation of black hole algorithm, gravitational search algorithm and particle swarm optimization. <i>Malaysian Journal of Fundamental and Applied Sciences</i> , 2015, 11, .	0.4	4
3330	A History Matching Framework to Characterize Fracture Network and Reservoir Properties in Tight Oil. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2020, 142, .	1.4	11

#	ARTICLE	IF	CITATIONS
3331	Optimization of highly efficient random grating thin-film solar cell using modified gravitational search algorithm and particle swarm optimization algorithm. <i>Journal of Nanophotonics</i> , 2018, 12, 1.	0.4	2
3332	Optimal design of vertical silicon nanowires solar cell using hybrid optimization algorithm. <i>Journal of Photonics for Energy</i> , 2017, 8, 1.	0.8	23
3333	Brain image segmentation based on improved BP-Adaboost neural network. , 2019, , .		1
3334	An Overview on Nature-Inspired Optimization Algorithms and Their Possible Application in Image Processing Domain. <i>Pattern Recognition and Image Analysis</i> , 2020, 30, 614-631.	0.6	16
3335	Hybrid Grey Wolf Optimizer Using Elite Opposition-Based Learning Strategy and Simplex Method. <i>International Journal of Computational Intelligence and Applications</i> , 2017, 16, 1750012.	0.6	74
3336	A Novel Fuzzy Based Hybrid PSO-GSA Algorithm in WSNs. , 2020, , .		1
3337	A benchmark of recent population-based metaheuristic algorithms for multi-layer neural network training. , 2020, , .		30
3338	Non-Convex Economic Dispatch with Prohibited Operating Zones through Gravitational Search Algorithm. <i>International Journal of Electrical and Computer Engineering</i> , 2015, 5, 1234.	0.5	9
3339	Gravitational-Search Algorithm for Optimal Controllers Design of Doubly-fed Induction Generator. <i>International Journal of Electrical and Computer Engineering</i> , 2018, 8, 780.	0.5	6
3340	Hybrid PSO-GSA Algorithm and Nonlinear Features for Prediction Body Mass Index (BMI) from Speech Signals. <i>Journal of Medical Imaging and Health Informatics</i> , 2017, 7, 305-315.	0.2	1
3341	Quality inspection of complex-shaped metal parts by vibrations and an integrated Mahalanobis classification system. <i>Structural Health Monitoring</i> , 2021, 20, 3075-3091.	4.3	7
3342	Stability enhancement of wind energy integrated hybrid system with the help of static synchronous compensator and symbiosis organisms search algorithm. <i>Protection and Control of Modern Power Systems</i> , 2020, 5, .	4.3	28
3343	Inverse Kinematic Solution of Robot Manipulator Using Hybrid Neural Network. <i>International Journal of Materials Science and Engineering</i> , 2015, , 31-38.	0.1	9
3344	Parallel Gravitation Field Algorithm Based on the CUDA Platform. <i>Journal of Information and Computational Science</i> , 2013, 10, 3635-3644.	0.1	3
3345	Optimal Placement and Sizing of Thyristor-controlled-series-capacitor using Gravitational Search Algorithm. <i>Telkomnika (Telecommunication Computing Electronics and Control)</i> , 2014, 10, 683.	0.6	6
3346	Efficient gravitational search algorithm for optimum design of retaining walls. <i>Structural Engineering and Mechanics</i> , 2013, 45, 111-127.	1.0	30
3347	Multi-objective optimization of foundation using global-local gravitational search algorithm. <i>Structural Engineering and Mechanics</i> , 2014, 50, 257-273.	1.0	26
3348	A new hybrid meta-heuristic for structural design: ranked particles optimization. <i>Structural Engineering and Mechanics</i> , 2014, 52, 405-426.	1.0	12

#	ARTICLE	IF	CITATIONS
3349	Structural damage identification using gravitational search algorithm. Structural Engineering and Mechanics, 2016, 60, 729-747.	1.0	10
3350	Sentimental Analysis using Capsule Network with Gravitational Search Algorithm. Journal of Web Engineering, 0, , .	0.7	1
3351	A Comparative Study of Evolutionary Computation Techniques for Solar Cells Parameter Estimation. Computacion Y Sistemas, 2019, 23, .	0.2	3
3352	Fabric defect detection using a hybrid particle swarm optimization-gravitational search algorithm and a Gabor filter. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2020, 37, 1229.	0.8	8
3353	Comparing optimization algorithms for conventional and freeform optical design. Optics Express, 2019, 27, 18940.	1.7	9
3354	A Novel Feature Selection Based Gravitation for Text Categorization. International Journal of Database Theory and Application, 2016, 9, 211-228.	0.2	1
3355	An Adaptive Fruit Fly Optimization Algorithm Based on Velocity Variable. International Journal of Hybrid Information Technology, 2015, 8, 329-338.	0.6	7
3356	Solving optimization problems using black hole algorithm. Journal of Advanced Computer Science & Technology, 2014, 4, 68-74.	1.2	31
3357	On The Performance of the Gravitational Search Algorithm. International Journal of Advanced Computer Science and Applications, 2013, 4, .	0.5	18
3358	Binary PSO-GSA for Load Balancing Task Scheduling in Cloud Environment. International Journal of Advanced Computer Science and Applications, 2018, 9, .	0.5	7
3359	A New Optimization Algorithm For Combinatorial Problems. International Journal of Advanced Research in Artificial Intelligence, 2013, 2, .	0.2	29
3360	Improving Black Hole Algorithm using Gravitational Search, White Hole Operator, and Local Search. Environmental Contaminants Reviews, 2019, 1, 8-14.	0.2	1
3361	Performance evaluation of GSA, SOS, ABC and ANN algorithms on linear and quadratic modelling of eggplant drying kinetic. Food Science and Technology, 2020, 40, 635-643.	0.8	7
3362	Gravitational search algorithm for optimization of retaining structures. Indian Journal of Science and Technology, 2012, 5, 1-7.	0.5	34
3363	Hybrid Genetic Optimization to Mitigate Starvation in Wireless Mesh Networks. Indian Journal of Science and Technology, 2015, 8, .	0.5	4
3364	Fast bearing fault diagnosis of rolling element using Lévy Moth-Flame optimization algorithm and Naive Bayes. Eksploatacja I Niezawodnosc, 2020, 22, 730-740.	1.1	42
3365	An Enhanced Opposition-based Firefly Algorithm for Solving Complex Optimization Problems. Jurnal Kejuruteraan, 2014, 26, 89-96.	0.2	4
3366	Conjugate Direction DE Algorithm for Solving Systems of Nonlinear Equations. Applied Mathematics and Information Sciences, 2017, 11, 339-352.	0.7	11

#	ARTICLE	IF	CITATIONS
3367	OPTIMAL UTILIZATION OF ELECTRICAL ENERGY FROM POWER PLANTS BASED ON FINAL ENERGY CONSUMPTION USING GRAVITATIONAL SEARCH ALGORITHM. <i>Electrical Engineering & Electromechanics</i> , 2018, .	0.4	24
3368	Optimization of Slotted Liner in Rubiales Field: Trade-Off between Sand Control, Flow Performance, and Plugging Tendency. <i>SPE Journal</i> , 2021, 26, 1110-1130.	1.7	2
3370	L-SHAPED CANTILEVER PARALLEL - PLATE MEMS ACCELEROMETER DESIGN PARAMETERS USING A GRAVITATIONAL SEARCH ALGORITHM. <i>International Journal on Smart Sensing and Intelligent Systems</i> , 2015, 8, 65-89.	0.4	3
3371	A Hybrid Approach for Sub-Acute Ischemic Stroke Lesion Segmentation Using Random Decision Forest and Gravitational Search Algorithm. <i>Current Medical Imaging</i> , 2019, 15, 170-183.	0.4	3
3372	Efficient Bag-of-Features using Improved Whale Optimization Algorithm for Histopathological Image Classification. <i>Recent Patents on Computer Science</i> , 2019, 12, 269-279.	0.5	1
3373	Feature Selection for Histopathological Image Classification using levy Flight Salp Swarm Optimizer. <i>Recent Patents on Computer Science</i> , 2019, 12, 329-337.	0.5	7
3376	Gravitational Search Algorithm for solving Unit Commitment Problems. <i>International Journal for Research in Applied Science and Engineering Technology</i> , 2017, V, 1497-1502.	0.1	1
3377	Software Cost Estimation by Optimizing COCOMO Model Using Hybrid BATGSA Algorithm. <i>International Journal of Intelligent Engineering and Systems</i> , 2018, 11, 250-263.	0.8	16
3378	HOGO: Hide Objects Game Optimization. <i>International Journal of Intelligent Engineering and Systems</i> , 2020, 13, 216-225.	0.8	23
3379	Darts Game Optimizer: A New Optimization Technique Based on Darts Game. <i>International Journal of Intelligent Engineering and Systems</i> , 2020, 13, 286-294.	0.8	47
3380	Gravitationally Inspired Search Algorithm for Solving Agent Tasks. <i>Baltic Journal of Modern Computing</i> , 2017, 5, 87-106.	0.2	1
3381	A Hybrid Cuckoo-gravitation Algorithm For Cost-optimized Qfd Decision-making Problem. <i>Journal of Mathematics and Computer Science</i> , 2014, 09, 342-351.	0.5	3
3382	A novel animal migration algorithm for global numerical optimization. <i>Computer Science and Information Systems</i> , 2016, 13, 259-285.	0.7	3
3383	Solving a multi-stage multi-product solid supply chain network design problem by meta-heuristics. <i>Scientia Iranica</i> , 2016, 23, 1428-1440.	0.3	8
3384	A Modified Variant of Grey Wolf Optimizer. <i>Scientia Iranica</i> , 2018, .	0.3	9
3385	Evolutionary Algorithm with a Configurable Search Mechanism. <i>Journal of Artificial Intelligence and Soft Computing Research</i> , 2020, 10, 151-171.	3.5	15
3386	Structural design of vehicle components using gravitational search and charged system search algorithms. <i>Materialpruefung/Materials Testing</i> , 2016, 58, 79-81.	0.8	81
3387	Optimization of thin-wall structures using hybrid gravitational search and Nelder-Mead algorithm. <i>Materialpruefung/Materials Testing</i> , 2016, 58, 75-78.	0.8	88

#	ARTICLE	IF	CITATIONS
3388	Comparison of grey wolf, whale, water cycle, ant lion and sine-cosine algorithms for the optimization of a vehicle engine connecting rod. <i>Materialpruefung/Materials Testing</i> , 2018, 60, 311-315.	0.8	136
3389	GF-CLUST: A NATURE-INSPIRED ALGORITHM FOR AUTOMATIC TEXT CLUSTERING. <i>Journal of Information and Communication Technology</i> , 2016, 15, 57-81.	0.3	7
3390	A Hybrid Artificial Grasshopper Optimization (HAGOA) Meta-Heuristic Approach: A Hybrid Optimizer For Discover the Global Optimum in Given Search Space. <i>International Journal of Mathematical, Engineering and Management Sciences</i> , 2019, 4, 471-488.	0.4	8
3391	Improved PSO Algorithm Based on Exponential Center Symmetric Inertia Weight Function and Its Application in Infrared Image Enhancement. <i>Symmetry</i> , 2020, 12, 248.	1.1	9
3392	DGO: Dice Game Optimizer. <i>Gazi University Journal of Science</i> , 2019, 32, 871-882.	0.6	31
3393	GO: Group Optimization. <i>Gazi University Journal of Science</i> , 2020, 33, 381-392.	0.6	17
3394	Real Power Loss Reduction by Amplified Water Cycle Algorithm. <i>Journal of Applied Science Engineering Technology and Education</i> , 2020, 2, 79-87.	0.2	2
3395	Orthogonal array based performance improvement in the gravitational search algorithm. <i>Turkish Journal of Electrical Engineering and Computer Sciences</i> , 0, , .	0.9	2
3396	Opposition-based gravitational search algorithm applied to economic power dispatch problems consisting of thermal units with emission constraints. <i>Turkish Journal of Electrical Engineering and Computer Sciences</i> , 2015, 23, 2278-2288.	0.9	10
3397	A Novel Quantum-inspired Binary Gravitational Search Algorithm in Obtaining Optimal Power Quality Monitor Placement. <i>Journal of Applied Sciences</i> , 2012, 12, 822-830.	0.1	28
3398	Multiobjective Optimization of Bioethanol Production via Hydrolysis Using Hopfield-Enhanced Differential Evolution. <i>Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series</i> , 2014, , 340-359.	0.5	3
3399	A Hybrid GA-GSA Algorithm for Optimizing the Performance of an Industrial System by Utilizing Uncertain Data. <i>Advances in Computational Intelligence and Robotics Book Series</i> , 2015, , 620-654.	0.4	45
3400	Swarm Intelligence-Based Optimization for PHEV Charging Stations. <i>Advances in Computational Intelligence and Robotics Book Series</i> , 2015, , 374-405.	0.4	18
3401	Hybrid Particle Swarm and Gravitational Search Optimization Techniques for Charging Plug-In Hybrid Electric Vehicles. <i>Advances in Computational Intelligence and Robotics Book Series</i> , 2016, , 471-504.	0.4	4
3402	Swarm Intelligence for Multiobjective Optimization of Extraction Process. <i>Advances in Computational Intelligence and Robotics Book Series</i> , 2016, , 516-544.	0.4	8
3403	Gravitational Search Algorithm. <i>Advances in Computational Intelligence and Robotics Book Series</i> , 2016, , 700-750.	0.4	2
3404	A Comparison among Multi-Agent Stochastic Optimization Algorithms for State Feedback Regulator Design of a Twin Rotor MIMO System. <i>Advances in Computational Intelligence and Robotics Book Series</i> , 2016, , 409-448.	0.4	2
3405	Hybrid BFO and PSO Swarm Intelligence Approach for Biometric Feature Optimization. , 0, , 1490-1518.		3

#	ARTICLE	IF	CITATIONS
3406	On Combining Nature-Inspired Algorithms for Data Clustering. Advances in Computational Intelligence and Robotics Book Series, 2017, , 826-855.	0.4	9
3407	Stellar Mass Black Hole for Engineering Optimization. Advances in Computational Intelligence and Robotics Book Series, 2017, , 62-90.	0.4	2
3408	Clustering Mixed Datasets Using K-Prototype Algorithm Based on Crow-Search Optimization. Advances in Computational Intelligence and Robotics Book Series, 2018, , 191-210.	0.4	3
3409	Particle Swarm Algorithm. Advances in Information Quality and Management, 2019, , 27-59.	0.3	2
3410	Analysis of Gravitation-Based Optimization Algorithms for Clustering and Classification. Advances in Data Mining and Database Management Book Series, 2020, , 74-99.	0.4	19
3411	A Meta-Heuristic Model for Data Classification Using Target Optimization. International Journal of Applied Metaheuristic Computing, 2017, 8, 24-36.	0.5	2
3412	A Hybrid Optimization Algorithm Based on Artificial Bee Colony and Gravitational Search Algorithm. International Journal of Digital Content Technology and Its Applications, 2012, 6, 620-626.	0.1	17
3413	Optimal Extraction of Photovoltaic Model Parameters Using Gravitational Search Algorithm Approach. Circuits and Systems, 2016, 07, 3849-3861.	0.1	4
3414	A Quantum Behaved Gravitational Search Algorithm. Intelligent Information Management, 2012, 04, 390-395.	0.3	24
3415	Wisdom of Artificial Crowdsâ€™A Metaheuristic Algorithm for Optimization. Journal of Intelligent Learning Systems and Applications, 2012, 04, 98-107.	0.4	17
3416	Performance of Flow-based Anomaly Detection in Sampled Traffic. Journal of Networks, 2016, 10, .	0.4	4
3417	Intelligent Sampling Using an Optimized Neural Network. Journal of Networks, 2016, 11, .	0.4	2
3419	Improvement of the Gravitational Search Algorithm by means of Low-Discrepancy Sobol Quasi Random-Number Sequence Based Initialization. Advances in Electrical and Computer Engineering, 2014, 14, 55-62.	0.5	8
3420	Solution Approach to Automatic Generation Control Problem Using Hybridized Gravitational Search Algorithm Optimized PID and FOPID Controllers. Advances in Electrical and Computer Engineering, 2015, 15, 23-34.	0.5	24
3421	Golden Sine Algorithm: A Novel Math-Inspired Algorithm. Advances in Electrical and Computer Engineering, 2017, 17, 71-78.	0.5	137
3422	Design of Multiplier-less Cosine Modulated Filter Banks with Sharp Transition using Evolutionary Algorithms. International Journal of Computer Applications, 2013, 68, 1-9.	0.2	10
3423	An Adaptive Intrusion Detection Model based on Machine Learning Techniques. International Journal of Computer Applications, 2013, 70, 1-5.	0.2	8
3424	Bio-Inspired Algorithms for Color Image Segmentation. International Journal of Computer Applications, 2013, 73, 11-16.	0.2	2

#	ARTICLE	IF	CITATIONS
3425	A Gravitational Search Algorithm for effective Web Service Selection for Composition with enhanced QoS in SOA. International Journal of Computer Applications, 2012, 42, 12-15.	0.2	12
3426	Design of Multiplier-less Reconfigurable Non-uniform Channel Filters using Meta-heuristic Algorithms. International Journal of Computer Applications, 2012, 59, 1-11.	0.2	8
3427	A Survey on Optimization Algorithms for Optimizing the Numerical Functions. International Journal of Computer Applications, 2013, 61, 41-46.	0.2	7
3428	Voltage Stability Assessment using GVSM and Preventive Control using SVC. International Journal of Computer Applications, 2016, 142, 23-31.	0.2	5
3429	A Review on Tuning of Extended Kalman Filter using Optimization Techniques for State Estimation. International Journal of Computer Applications, 2016, 145, 1-5.	0.2	3
3430	Tuning of PID Controllers for Quadcopter System using Hybrid Memory based Gravitational Search Algorithm " Particle Swarm Optimization. International Journal of Computer Applications, 2017, 172, 9-18.	0.2	12
3431	MOCANAR: A Multi-Objective Cuckoo Search Algorithm for Numeric Association Rule Discovery. , 2015, , .		4
3432	A Preliminary Survey on Optimized Multiobjective Metaheuristic Methods for Data Clustering Using Evolutionary Approaches. International Journal of Computer Science and Information Technology, 2013, 5, 57-77.	0.3	5
3433	Modeling the warning system of tour sustainable development with gravitational search algorithm support vector regression. Artificial Intelligence Research, 2014, 3, .	0.3	1
3434	Modified Bat Algorithm. Elektronika Ir Elektrotehnika, 2014, 20, .	0.4	37
3435	Power Quality Management Based Security OPF Considering FACTS Using Metaheuristic Optimization Methods. , 0, , .		2
3436	OpenMP Teaching-Learning Based Optimization Algorithm over Multi-Core System. International Journal of Intelligent Systems and Applications, 2015, 7, 57-65.	0.9	8
3437	Real Coded Genetic Algorithm Operators Embedded in Gravitational Search Algorithm for Continuous Optimization. International Journal of Intelligent Systems and Applications, 2015, 7, 1-12.	0.9	6
3438	Improved Krill Herd Algorithm with Neighborhood Distance Concept for Optimization. International Journal of Intelligent Systems and Applications, 2016, 8, 34-50.	0.9	3
3440	A Review of Nature-Based Algorithms Applications in Green Supply Chain Problems. International Journal of Engineering and Technology, 2014, 6, 204-211.	0.1	7
3441	Using Gravitational Search Algorithm for Finding Near-optimal Base Station Location in Two-Tiered WSNs. International Journal of Machine Learning and Computing, 2012, , 377-380.	0.8	25
3442	An Optimal Edge Detection Using Gravitational Search Algorithm. Lecture Notes on Software Engineering, 2013, , 148-152.	0.3	7
3444	An LSTM-BINN Approach for Built-In Test Analog Signal State Recognition of Heavy-Duty Gas Turbine Controllers. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	2.4	2

#	ARTICLE	IF	CITATIONS
3445	A Manta Ray Foraging Algorithm Solution for Practical Reactive Power Optimization Problem. <i>Advances in Intelligent Systems and Computing</i> , 2021, , 259-270.	0.5	1
3446	Boosting vector quantization technique using fast directional shrinking search optimization (DSSO) algorithm. <i>AIP Conference Proceedings</i> , 2021, , .	0.3	0
3447	Parametric Analysis: Determining the Efficacy of Varied Approaches under Deregulated Electricity Market. , 2021, , .		0
3448	A novel equilibrium optimizer based on levy flight and iterative cosine operator for engineering optimization problems. <i>Expert Systems</i> , 2022, 39, e12843.	2.9	9
3449	An efficient equilibrium optimizer with support vector regression for stock market prediction. <i>Neural Computing and Applications</i> , 2022, 34, 3165-3200.	3.2	32
3450	Rank-driven salp swarm algorithm with orthogonal opposition-based learning for global optimization. <i>Applied Intelligence</i> , 2022, 52, 7922-7964.	3.3	21
3451	An improved sine-cosine algorithm with dynamic selection pressure. <i>Journal of Computational Science</i> , 2021, 55, 101477.	1.5	3
3452	Towards effective offloading mechanisms in fog computing. <i>Multimedia Tools and Applications</i> , 2022, 81, 1997-2042.	2.6	32
3453	Whale optimization algorithm based on dynamic pinhole imaging and adaptive strategy. <i>Journal of Supercomputing</i> , 2022, 78, 6090-6120.	2.4	7
3454	Rotated Black Hole: A New Heuristic Optimization for Reducing Localization Error of WSN in 3D Terrain. <i>Wireless Communications and Mobile Computing</i> , 2021, 2021, 1-13.	0.8	13
3455	Design of an efficient hybridized CS-PSO algorithm and its applications for solving constrained and bound constrained structural engineering design problems. <i>Results in Control and Optimization</i> , 2021, 5, 100064.	1.3	9
3456	GSA-ELM: A hybrid learning model for short-term traffic flow forecasting. <i>IET Intelligent Transport Systems</i> , 2022, 16, 41-52.	1.7	19
3457	Fractional-order comprehensive learning marine predators algorithm for global optimization and feature selection. <i>Knowledge-Based Systems</i> , 2022, 235, 107603.	4.0	33
3458	Solution of Water Distribution Networks Design with Evolutionary Optimization Techniques. <i>European Journal of Science and Technology</i> , 0, , .	0.5	0
3459	Tuna Swarm Optimization: A Novel Swarm-Based Metaheuristic Algorithm for Global Optimization. <i>Computational Intelligence and Neuroscience</i> , 2021, 2021, 1-22.	1.1	80
3460	Single-Channel Speech Enhancement in Modulation Domain Using Particle Swarm Optimization. <i>Advances in Intelligent Systems and Computing</i> , 2022, , 141-153.	0.5	0
3461	Application of texture-based features for text non-text classification in printed document images with novel feature selection algorithm. <i>Soft Computing</i> , 2022, 26, 891-909.	2.1	9
3462	An improved crow search algorithm based on oppositional forgetting learning. <i>Applied Intelligence</i> , 2022, 52, 7905-7921.	3.3	6

#	ARTICLE	IF	CITATIONS
3463	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.	3.3	14
3464	A novel hybrid approach of gravitational search algorithm and decision tree for twitter spammer detection. International Journal of Modern Physics C, 2022, 33, .	0.8	3
3465	A quantum mutation-based backtracking search algorithm. Artificial Intelligence Review, 2022, 55, 3019-3073.	9.7	20
3466	Enhancement of Voltage Profile in the Distribution system by Reconfiguring with DG placement using Equilibrium Optimizer. AEJ - Alexandria Engineering Journal, 2022, 61, 4081-4093.	3.4	34
3467	Colony search optimization algorithm using global optimization. Journal of Supercomputing, 2022, 78, 6567-6611.	2.4	14
3468	An enhanced black widow optimization algorithm for feature selection. Knowledge-Based Systems, 2022, 235, 107638.	4.0	92
3469	The Archerfish Hunting Optimizer: A Novel Metaheuristic Algorithm for Global Optimization. Arabian Journal for Science and Engineering, 2022, 47, 2513-2553.	1.7	30
3470	Deep Ensemble of Slime Mold Algorithm and Arithmetic Optimization Algorithm for Global Optimization. Processes, 2021, 9, 1774.	1.3	55
3471	Improved slime mould algorithm by opposition-based learning and Levy flight distribution for global optimization and advances in real-world engineering problems. Journal of Ambient Intelligence and Humanized Computing, 2023, 14, 1163-1202.	3.3	29
3472	An ensemble approach to meta-heuristic algorithms: Comparative analysis and its applications. Computers and Industrial Engineering, 2021, 162, 107739.	3.4	21
3473	Binary Gravitational Search Algorithm (BGS): Improved Efficiency. , 2010, , 1-19.		0
3474	Chaotic-Based Communication Systems. , 2010, , 1-12.		0
3475	Commitment of hydro thermal generation scheduling of a large power system with cooling "banking constraint using Gravitational Search Algorithm. Indian Journal of Applied Research, 2011, 3, 186-188.	0.0	0
3476	An Empirical Comparison of Some Approximate Methods for Graph Coloring. Lecture Notes in Computer Science, 2012, , 600-609.	1.0	1
3477	Swarm Intelligence Optimization: Applications of Particle Swarms in Industrial Engineering and Nuclear Power Plants. Atlantis Computational Intelligence Systems, 2012, , 181-202.	0.5	2
3478	An Efficient Gravitational Search Algorithm Based Optimal Web Service Selection for Composition in SOA. International Journal of Computer Applications and Technology, 2012, 1, 20-24.	0.4	1
3479	Design and Simulation of FIR High Pass Filter Using Gravitational Search Algorithm. Lecture Notes in Computer Science, 2013, , 547-557.	1.0	1
3480	Reactive Power and Voltage Control in a Distribution System by Quantum-Inspired Gravitational Search Algorithm. Transmission and Distribution Engineering and Technology, 2013, 02, 48-56.	0.0	0

#	ARTICLE	IF	CITATIONS
3481	Newly Developed Nature-Inspired Algorithms and their Applications to Recommendation Systems. , 2013, , 214-229.		0
3482	Force-Based Cooperative Search Directions in Evolutionary Multi-objective Optimization. Lecture Notes in Computer Science, 2013, , 383-397.	1.0	4
3484	Multi-objective Grid Scheduling. Studies in Computational Intelligence, 2013, , 225-249.	0.7	0
3485	The Distance Factor of Artificial Physics Optimization. Computer Science and Application, 2013, 03, 326-330.	0.0	0
3486	A Gravitational Search Algorithm Approach for Optimizing Closed-Loop Logistics Network. , 2013, , 616-638.		4
3487	NEWTONIAN IMPERIALIST COMPETITIVE APPROACH TO OPTIMIZING OBSERVATION OF MULTIPLE TARGET POINTS IN MULTISENSOR SURVEILLANCE SYSTEMS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-1/W3, 431-436.	0.2	0
3488	PATH PLANNING OF AN AUTONOMOUS MOBILE MULTI-SENSOR PLATFORM IN A 3D ENVIRONMENT USING NEWTONIAN IMPERIALIST COMPETITIVE OPTIMIZATION METHOD. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-1/W3, 191-196.	0.2	2
3490	A Novel Approach for PAM Clustering Method. International Journal of Computer Applications, 2014, 86, 1-5.	0.2	3
3491	Sensitivity Analysis of Load-Frequency Control of Power System Using Gravitational Search Algorithm. Advances in Intelligent Systems and Computing, 2014, , 249-258.	0.5	1
3492	Review on Heart Studies. , 2014, , 113-128.		0
3493	Simulation Results. SpringerBriefs in Applied Sciences and Technology, 2014, , 27-56.	0.2	0
3494	Meta-Heuristic Structure for Multiobjective Optimization Case Study. Advances in Logistics, Operations, and Management Science Book Series, 2014, , 38-58.	0.3	1
3495	Investigation Effects of Selection Mechanisms for Gravitational Search Algorithm. Journal of Computer and Communications, 2014, 02, 117-126.	0.6	0
3496	Adaptive Evolutionary Optimization Algorithms for Simple Fuzzy Controller Tuning Dedicated to Servo Systems. Atlantis Computational Intelligence Systems, 2014, , 159-173.	0.5	0
3497	ANN Optimization Experiments for Classification. , 2014, , 200-212.		0
3499	Automatic MRI Brain Image Segmentation Using Gravitational Search-Based Clustering Technique. Advances in Computational Intelligence and Robotics Book Series, 2014, , 313-326.	0.4	1
3500	A Unified Matrix-Based Stochastic Optimization Algorithm. Lecture Notes in Computer Science, 2014, , 64-73.	1.0	0
3501	A Novel Co-swarm Gravitational Search Algorithm for Constrained Optimization. Advances in Intelligent Systems and Computing, 2014, , 629-640.	0.5	3

#	ARTICLE	IF	CITATIONS
3502	Computer Aided Detection Algorithm for Digital Mammogram Images – A Survey. International Journal of Computer Trends and Technology, 2014, 8, 138-147.	0.1	1
3503	Design of Multiplier-less Sharp Transition Width MDFT Filter Banks using Modified Metaheuristic Algorithms. International Journal of Computer Applications, 2014, 88, 1-14.	0.2	1
3504	An Experimental Study of the Application of Gravitational Search Algorithm in Solving Route Optimization Problem for Holes Drilling Process. , 2014, , .		0
3506	Tutorial Sobre o Uso de T�cnicas para Controle de Par�metros em Algoritmos de Intelig�ncia de Enxame e Computa�o Evolutiva. Revista De Informatica Teorica E Aplicada, 2014, 21, 90.	0.2	1
3507	Transmission Loss allocation with Optimal Power Flow using Gravitational Search Algorithm. International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering, 2014, , 2117-2126.	0.2	2
3508	An Improved Teaching-Learning Based Optimization Approach for Fuzzy Clustering. , 2014, , .		1
3509	Process Optimization of MTBE Reactive Distillation Using GSA. International Journal of Chemical Engineering and Applications (IJCEA), 2014, 5, 457-461.	0.3	3
3510	Multi-Objective Predictive Control : A Solution Using Metaheuristics. International Journal of Computer Science and Information Technology, 2014, 6, 147-156.	0.3	1
3511	Solution of Optimal Power Flow by an Opposition-Based Gravitational Search Algorithm. Advances in Intelligent Systems and Computing, 2015, , 545-557.	0.5	1
3513	Performance Enhancement for Adaptive Beam-Forming Application Based Hybrid PSO/GSA Algorithm. Journal of Electromagnetic Analysis and Applications, 2015, 07, 126-133.	0.1	3
3514	Modeling and Forecasting Electricity Price Based on Multi Resolution Analysis and Dynamic Neural Networks. , 2015, , 6397-6409.		0
3515	Mean-risk model for portfolio selection with uncertain returns. , 0, , .		0
3516	A HYBRID APPROACH FOR IPFC LOCATION AND PARAMETERS OPTIMIZATION FOR CONGESTION RELIEF IN COMPETITIVE ELECTRICITY MARKET ENVIRONMENT. International Journal of Research in Engineering and Technology, 2015, 04, 706-714.	0.1	0
3517	Dual Proportional Integral Controller of Two-Area Load Frequency Control Based Gravitational Search Algorithm. TELKOMNIKA Indonesian Journal of Electrical Engineering, 2015, 15, .	0.1	2
3518	Stochastic Leader Gravitational Search Algorithm for Enhanced Adaptive Beamforming Technique. PLoS ONE, 2015, 10, e0140526.	1.1	6
3519	Control Method of High-Speed Train Automatic Side Door Based on Gravitational Search Algorithm. Journal of Software Engineering, 2015, 10, 29-41.	0.2	0
3520	Applying CI in Biology through PSO. Advances in Bioinformatics and Biomedical Engineering Book Series, 2016, , 119-143.	0.2	0
3521	A New Collaborative Approach to Particle Swarm Optimization for Global Optimization. Advances in Intelligent Systems and Computing, 2016, , 641-649.	0.5	0

#	ARTICLE	IF	CITATIONS
3522	Evolving Improved Neural Network Classifiers for Bankruptcy Prediction by Hybridization of Nature Inspired Algorithms. Lecture Notes in Business Information Processing, 2016, , 40-50.	0.8	0
3523	Improvement of Adaptive Smart Concentric Circular Antenna Array Based Hybrid PSO-GSA Optimizer. International Journal of Advanced Computer Science and Applications, 2016, 7, .	0.5	0
3524	Classical Mechanics Optimization for Image Segmentation. Lecture Notes in Computer Science, 2016, , 102-110.	1.0	1
3525	Conflict Resolution Problem Solving with Bio-Inspired Metaheuristics. Advances in Linguistics and Communication Studies, 2016, , 168-182.	0.2	0
3526	Adaptive Bacterial Foraging Algorithm and Its Application in Mobile Robot Path Planning. Communications in Computer and Information Science, 2016, , 241-246.	0.4	0
3527	GRAVITATIONAL SEARCH ALGORITHM WITH CHAOTIC MAP (GSA-CM) FOR SOLVING OPTIMIZATION PROBLEMS. International Journal of Research in Engineering and Technology, 2016, 05, 204-212.	0.1	1
3528	Enhanced Secured Optimal Power Flow by TCSC Parameter Optimization using RBFNN based GSA. International Journal on Electrical Engineering and Informatics, 2016, 8, 374-388.	0.3	2
3529	Stochastic Solution on Convergence Property of Quadratic Functions. Communications on Applied Electronics, 2016, 5, 10-17.	0.4	0
3530	A Two-Stage Hybrid Optimization Approach to Improve Transmission System Performance using FACTS Controllers under Open Access Environment. International Journal of Grid and Distributed Computing, 2016, 9, 287-298.	0.8	0
3531	Gravitational search optimization approach to improve fuzzy logic speed controller for induction motor drive. Przegląd Elektrotechniczny, 2016, 1, 202-207.	0.1	0
3532	The Cheapest Shop Seeker : A New Algorithm For Optimization Problem in a Continuous Space. IAES International Journal of Artificial Intelligence, 2016, 5, 119.	0.6	0
3533	Technical Program in full - Part II (RC 1 - VSP P1). , 2016, , .		0
3534	Zastosowanie algorytmu optymalizacji wieloagentowej do automatycznej kalibracji modeli symulacyjnych. Tá»ip ChÄ-Y Há»€ Dá»± PhÄ²ng = Journal of Preventive Medicine, 2016, 72, 704-712.	0.0	0
3535	Economic Operation of Interconnected Power System and Unidirectional Flow through GSA. International Journal of Computer Applications, 2016, 149, 11-15.	0.2	5
3536	Remote sensing imagery classification using multi-objective gravitational search algorithm. Proceedings of SPIE, 2016, , .	0.8	0
3537	Comparative study of classical controllers for LFC of an isolated hybrid distributive generation system. International Journal of Engineering, Science and Technology, 2016, 7, 133-140.	0.3	1
3538	Multiobjective Optimization of Bioethanol Pretreatment Process. , 2016, , 97-114.		0
3539	A Novel Approach to GSA, GA and Wavelet Transform to Design Fuzzy Logic Controller for 11• Multilevel Inverter. International Journal of Power Electronics and Drive Systems, 2016, 7, 1200.	0.5	1

#	ARTICLE	IF	CITATIONS
3540	Bioactive Compound Extraction Process Optimization. , 2016, , 115-133.		0
3541	Multiobjective Optimization of Green Sand Mold Product. , 2016, , 159-180.		0
3543	Comparison of GSA and PSO-Based Optimization Techniques for the Optimal Placement of Series and Shunt FACTS Devices in a Power System. Advances in Intelligent Systems and Computing, 2017, , 375-385.	0.5	3
3544	Fuzzy Logic Dynamic Parameter Adaptation in the Gravitational Search Algorithm. Advances in Intelligent Systems and Computing, 2017, , 47-57.	0.5	0
3545	A General Swarm Intelligence Model for Continuous Function Optimization. Lecture Notes in Computer Science, 2017, , 972-980.	1.0	0
3546	A Parallel Adaptive PSO Algorithm with Non-iterative Electrostatic Repulsion and Social Dynamic Neighborhood. Advances in Intelligent Systems and Computing, 2017, , 570-581.	0.5	1
3547	Optimization of insulin sensitivity and glucose effectiveness index from an oral glucose tolerance test using modified oral minimal model and gravitational search algorithm. Applied Mathematical Sciences, 0, 11, 433-443.	0.0	0
3549	Spider Monkey Optimization Algorithm Based on Metropolis Principle. Advances in Intelligent Systems and Computing, 2017, , 113-121.	0.5	0
3550	Automatic MRI Brain Image Segmentation Using Gravitational Search-Based Clustering Technique. , 2017, , 115-130.		0
3551	Swarm-Based Clustering for Gene Expression Data. Advances in Knowledge Acquisition, Transfer and Management Book Series, 2017, , 123-149.	0.1	0
3553	An Improved Monarch Butterfly Optimization with Equal Partition and F/T Mutation. Lecture Notes in Computer Science, 2017, , 106-115.	1.0	2
3554	Computational Intelligence Techniques for Modelling the Critical Flashover Voltage of Insulators: From Accuracy to Comprehensibility. Lecture Notes in Computer Science, 2017, , 295-301.	1.0	2
3555	Interval Type-2 Fuzzy Logic for Parameter Adaptation in the Gravitational Search Algorithm. Lecture Notes in Computer Science, 2017, , 239-249.	1.0	0
3556	A Generalization of the Gravitational Search Algorithm. Advances in Intelligent Systems and Computing, 2018, , 162-171.	0.5	0
3557	Stochastic inversion of elastic impedance based on PSO-GSA algorithm. , 2017, , .		0
3558	Application of Computational Intelligence for Solving Economic Load Dispatch Problem. IOSR Journal of Electrical and Electronics Engineering, 2017, 12, 65-67.	0.0	0
3559	Gravitational Search Algorithm Applied for Residential Demand Response Using Real-Time Pricing. Advances in Intelligent Systems and Computing, 2018, , 101-111.	0.5	1
3560	Optimized Fuzzy Transform for Image Compression. Advances in Intelligent Systems and Computing, 2018, , 118-128.	0.5	3

#	ARTICLE	IF	CITATIONS
3561	A New Thermodynamic Equilibrium-Based Metaheuristic. <i>Advances in Intelligent Systems and Computing</i> , 2018, , 336-346.	0.5	1
3562	Voltage stability analysis based on multi - objective optimal reactive power dispatch under various contingency. <i>International Journal on Electrical Engineering and Informatics</i> , 2017, 9, 521-541.	0.3	2
3563	A Hyper Heuristic Localization Based Cloned Node Detection Technique Using GSA Based Simulated Annealing in Sensor Networks. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , 2018, , 307-335.	0.5	3
3564	Multimodal Genetic Programming by Using Tree Structure Similarity. <i>Transactions of the Society of Instrument and Control Engineers</i> , 2018, 54, 640-649.	0.1	0
3565	An Improved Bird Swarm Algorithm with Adaptive Characteristics. , 2018, , .		1
3566	Simulation Results. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2018, , 33-46.	0.2	0
3567	GPU-Based CAPSO with N-Dimension Particles. <i>Advances in Intelligent Systems and Computing</i> , 2018, , 459-467.	0.5	0
3568	RGSA: A New Improved Gravitational Search Algorithm. , 2018, , .		2
3569	A Comparative Study for Locating Critical Failure Surface in Slope Stability Analysis via Meta-Heuristic Approach. <i>Advances in Computational Intelligence and Robotics Book Series</i> , 2018, , 1-18.	0.4	1
3570	Problem Statements. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2018, , 11-21.	0.2	0
3572	Kinetic Gas Molecule Optimization (KGMO). <i>Advances in Medical Technologies and Clinical Practice Book Series</i> , 2018, , 114-149.	0.3	0
3573	Ensemble Neural Network Optimization Using a Gravitational Search Algorithm with Interval Type-1 and Type-2 Fuzzy Parameter Adaptation in Pattern Recognition Applications. <i>Studies in Computational Intelligence</i> , 2018, , 17-27.	0.7	5
3574	The Application of Thermodynamic Parameter Model Based on RGSA-RBFNN in Vacuum Resurgence Control Process. , 2018, , .		1
3576	Optimal Structural Elements Sizing Using Neural Network and Adaptive Differential Algorithm. <i>Advances in Business Information Systems and Analytics Book Series</i> , 2018, , 93-134.	0.3	0
3577	GSA-ANN and DEA-ANN Methods to Prevent Underground Cable Line Faults. <i>International Journal of Computer and Electrical Engineering</i> , 2018, 10, 85-93.	0.2	1
3578	Gravitational Search Optimized Hyperspectral Image Classification with Multilayer Perceptron. <i>Lecture Notes in Computer Science</i> , 2018, , 130-138.	1.0	0
3579	A Discrete Black Hole Optimization Algorithm for Efficient Community Detection in Social Networks. <i>Advances in Web Technologies and Engineering Book Series</i> , 2018, , 133-153.	0.4	0
3580	Individual Parameter Selection Strategy for Artificial Algae Algorithm (AAA). <i>Journal of Computers</i> , 2018, , 450-460.	0.4	0

#	ARTICLE	IF	CITATIONS
3581	Dynamic Parameter Adaptation Using Interval Type-2 Fuzzy Logic in Bio-Inspired Optimization Methods. <i>Advances in Intelligent Systems and Computing</i> , 2018, , 1-12.	0.5	1
3583	A Meta-heuristic Based Hybrid Predictive Model for Sensor Network Data. <i>Studies in Computational Intelligence</i> , 2019, , 167-186.	0.7	0
3584	Application of Jaya Algorithm and Its Variants on Constrained and Unconstrained Benchmark Functions. , 2019, , 59-90.		0
3585	Intelligent Data Analysis in Electric Power Engineering Applications. <i>Intelligent Systems Reference Library</i> , 2019, , 269-313.	1.0	0
3586	Optimal Clustering of Nodes in Wireless Sensor Networks, Using a Gravitational Search Algorithm. <i>Lecture Notes in Electrical Engineering</i> , 2019, , 1023-1037.	0.3	0
3587	Neural Network Model Development with Soft Computing Techniques for Membrane Filtration Process. <i>International Journal of Electrical and Computer Engineering</i> , 2018, 8, 2614.	0.5	1
3588	Hybrid Swarm Intelligence Algorithm for Detection of Health of an Apple. <i>Advances in Intelligent Systems and Computing</i> , 2019, , 333-342.	0.5	0
3590	Adaptive Artificial Physics Optimization Using Proportional Derivative Controllers. <i>Asset Analytics</i> , 2019, , 75-104.	0.4	0
3591	Genetic Algorithms for the Non Emergency Patients Transport Service. <i>Advances in Intelligent Systems and Computing</i> , 2019, , 95-106.	0.5	1
3592	Geliştirilmi Adaptif Sin Kosis Algoritması (ASKA) Optimizasyon Problemlerinin Açtımında Kullanılması. Fırat Üniversitesi Mühendislik Bilimleri Dergisi, 2018, 30, 145-154.	0.2	1
3593	Fine-Tuned Constrained Nelder-Mead SOMA. <i>Advances in Intelligent Systems and Computing</i> , 2019, , 545-562.	0.5	0
3594	Collaborative Task Assignment for Multi-UAV with Sequence and Time Constrains. <i>Xibei Gongye Daxue Xuebao/Journal of Northwestern Polytechnical University</i> , 2018, 36, 890-896.	0.3	0
3595	Ortalama farksal gelişim algoritması ile bilineer sistem kimliklendirme. Balıkesir Üniversitesi Fen Bilimleri Enstitüsü Dergisi, 0, , 546-560.	0.2	0
3596	Use of Improved Gravitational Search Algorithm for 3D Reconstruction of Space Curves Using NURBS. <i>Advances in Intelligent Systems and Computing</i> , 2019, , 185-197.	0.5	0
3597	Dynamic Centroid Insertion and Adjustment for Data Sets with Multiple Imbalanced Classes. <i>Lecture Notes in Computer Science</i> , 2019, , 766-778.	1.0	0
3598	Differential Evolution Based on Learnable Evolution Model for Function Optimization. <i>Lecture Notes in Computer Science</i> , 2019, , 290-302.	1.0	0
3599	Diversity and Progress Controlled Gravitational Search Algorithm for Balancing Load in Cloud. <i>Communications in Computer and Information Science</i> , 2019, , 313-323.	0.4	0
3600	A Parallel and Improved Quadrivalent Quantum-Inspired Gravitational Search Algorithm in Optimal Design of WSNs. <i>Communications in Computer and Information Science</i> , 2019, , 352-366.	0.4	0

#	ARTICLE	IF	CITATIONS
3601	Advanced Metaheuristics-based Tuning of Effective Design Parameters for Model Predictive Control Approach. International Journal of Advanced Computer Science and Applications, 2019, 10, .	0.5	0
3602	imBBO: An Improved Biogeography-Based Optimization Algorithm. Lecture Notes in Computer Science, 2019, , 284-297.	1.0	0
3603	Generation of turbulence phase screen based on gravitational search algorithm. Wuli Xuebao/Acta Physica Sinica, 2019, 68, 134205.	0.2	1
3604	Social Algorithms and Optimization. , 2019, , 1-23.		0
3605	Improvement of Neural Networks with Swarm Intelligence Algorithm for Credit Scoring. SSRN Electronic Journal, 0, , .	0.4	0
3606	An Adapted Ant-Inspired Algorithm for Enhancing Web Service Composition. , 2019, , 904-921.		0
3607	Optimal Controller Parameter Tuning from Multi/Many-objective Optimization Algorithms. Springer Optimization and Its Applications, 2019, , 51-74.	0.6	1
3608	Metaheuristic Schemes for Parameter Estimation in Induction Motors. Studies in Computational Intelligence, 2019, , 9-22.	0.7	1
3609	Job Allocation on Cloud: A Comparative Study. Lecture Notes in Electrical Engineering, 2019, , 431-439.	0.3	0
3610	Hybridization of Biogeography-Based Optimization and Gravitational Search Algorithm for Efficient Face Recognition. Advances in Computational Intelligence and Robotics Book Series, 2019, , 258-279.	0.4	0
3611	Comparative Study of Combination of Swarm Intelligence and Fuzzy C Means Clustering for Medical Image Segmentation. , 2019, , 69-80.		4
3613	Multiple-Optimization based-design of RF Integrated Inductors. Advances in Science, Technology and Engineering Systems, 2019, 4, 574-584.	0.4	1
3614	Adjustive Reciprocal Whale Optimization Algorithm for Wrapper Attribute Selection and Classification. International Journal of Image Graphics and Signal Processing, 2019, 11, 18-26.	0.8	2
3615	Auto-calibration of Fractional Fuzzy Controllers by Using the Swarm Social-Spider Method. Intelligent Systems Reference Library, 2020, , 189-209.	1.0	0
3616	Design of PID controller based on Gravitational Search Algorithm for Closed Loop Fiberoptic Gyroscope. Uluslararası Mühendislik Araştırma Ve Gelistirme Dergisi, 0, , 695-704.	0.1	0
3617	A Review on Time-domain Peak Detection and Classification Algorithms for Electroencephalogram Signals. Environmental Contaminants Reviews, 2019, 1, 115-121.	0.2	1
3620	Applications and Advancements of Nature-Inspired Optimization Algorithms in Data Clustering: A Detailed Analysis. Advances in Intelligent Systems and Computing, 2020, , 731-750.	0.5	0
3621	Development of Artificial Neural Networks Trained by Heuristic Algorithms for Prediction of Exhaust Emissions and Performance of a Diesel Engine Fuelled with Biodiesel Blends. Springer Tracts in Nature-inspired Computing, 2020, , 253-275.	1.2	2

#	ARTICLE	IF	CITATIONS
3623	Neighborhood Based Optimization Algorithm. Studies in Computational Intelligence, 2020, , 183-243.	0.7	0
3625	Knowledge-Based Optimization Algorithm. Studies in Computational Intelligence, 2020, , 245-277.	0.7	0
3627	An adaptive gravitational search algorithm for global optimization. Indonesian Journal of Electrical Engineering and Computer Science, 2019, 16, 724.	0.7	1
3628	A Self-adaptive Mechanism Embedded Gravitational Search Algorithm. , 2019, , .		1
3629	Design of an Optimal Microstrip Butterworth Low-Pass Filter Using Colliding Bodies Optimization. Lecture Notes in Electrical Engineering, 2020, , 925-934.	0.3	3
3630	An Efficient Concentric Circular Antenna Array Synthesis Considering the Mutual Coupling. Lecture Notes in Electrical Engineering, 2020, , 45-53.	0.3	0
3631	Binary Thermal Exchange Optimization for Feature Selection. Studies in Big Data, 2020, , 239-260.	0.8	0
3632	Modified Gravitational Search Algorithm for Energy Demand Estimation of Turkey. Bitlis Eren Aœniversitesi Fen Bilimleri Dergisi, 2019, 8, 1338-1348.	0.1	2
3633	Optimal Strategic Bidding Using Intelligent Gravitational Search Algorithm for Profit Maximization of Power Suppliers in an Emerging Power Market. Lecture Notes in Electrical Engineering, 2020, , 963-971.	0.3	0
3634	Comparison of Performance Analysis of Optimal Controllers for Frequency Regulation of Three-Area Power System. Lecture Notes in Electrical Engineering, 2020, , 735-743.	0.3	0
3635	Two-Stage OTA Sizing Optimization Using Bio-Inspired Algorithms. Journal of Integrated Circuits and Systems, 2019, 14, 1-10.	0.3	2
3636	Grey Wolf Optimizer with Multi-Strategy Optimization and Its Application on TSP. , 2020, , .		0
3637	Comparative Study of Nature-Inspired Algorithms. IFIP Advances in Information and Communication Technology, 2020, , 353-361.	0.5	1
3638	Hybridizing Meta-heuristic Algorithms with CMM and QCM for SVRâ€™s Parameters Determination. , 2020, , 69-133.		1
3639	Design and Application of Optimally-Tuned Variable Parameters PID Controller for Nonlinear Engineering Systems. European Journal of Engineering and Formal Sciences, 2022, 5, 89-96.	0.1	0
3640	A Modified Gravitational Search Algorithm for Discrete Optimization Problem. International Journal of Simulation: Systems, Science and Technology, 0, , .	0.0	3
3641	ÄŖok Merkezli Girdap Arama AlgoritmasÄ±. DÄ¼zce Aœniversitesi Bilim Ve Teknoloji Dergisi, 0, , .	0.2	3
3643	Two-Modified Emperor Penguins Colony Optimization Algorithms. Revue D'Intelligence Artificielle, 2020, 34, 151-160.	0.5	2

#	ARTICLE	IF	CITATIONS
3644	Gravitational Search Algorithm for Estimating the Kinetic Parameters of the Propane Pre-reforming Reaction. , 2020, , .		0
3645	Optimization of Mechanical Components by the Improved Grey Wolf Optimization. Lecture Notes on Multidisciplinary Industrial Engineering, 2021, , 73-97.	0.4	0
3646	Comparison of Different Metaheuristic Algorithms for Multilevel Non-local Means 2D Histogram Thresholding Segmentation. Advances in Intelligent Systems and Computing, 2021, , 563-572.	0.5	1
3647	Low latency IIR digital filter design by using metaheuristic optimization algorithms. Signal and Data Processing, 2020, 17, 15-28.	0.0	0
3648	Population based optimization algorithms improvement using the predictive particles. International Journal of Electrical and Computer Engineering, 2020, 10, 3261.	0.5	2
3649	Repulsion-Based Grey Wolf Optimizer. Advances in Intelligent Systems and Computing, 2021, , 385-394.	0.5	1
3650	An Improved Biology Migration Algorithm with Von Neumann Structure. , 2020, , .		0
3652	Fuzzy Optimized Gravitational Search Algorithm for Disease Prediction. International Journal of Swarm Intelligence Research, 2020, 11, 89-103.	0.5	0
3653	EP-FPG applied to RSSI-Based Wireless Indoor Localization. , 2020, , .		0
3654	Application of Artificial Electric Field Algorithm for Economic Load Dispatch Problem. Advances in Intelligent Systems and Computing, 2021, , 71-79.	0.5	5
3655	GÄ¼rÄ¼ntÄ¼ Ä¼yileÄ¼tirme Ä¼Åin Kaotik SarsÄ¼ntÄ¼ ve En Ä¼yi Ajan OperatÄ¼rlÄ¼ SÄ¼ralÄ¼ Modifiyeli YerÄ¼sekimi Arama AlgoritmasÄ¼. DÄ¼zce Ä¼cniversitesi Bilim Ve Teknoloji Dergisi, 0, , .	0.2	1
3656	An optimized support vector regression for prediction of bearing degradation. Applied Soft Computing Journal, 2021, 113, 108008.	4.1	7
3657	Satellite Image Classification Using a Hierarchical Ensemble Learning and Correlation Coefficient-Based Gravitational Search Algorithm. Remote Sensing, 2021, 13, 4351.	1.8	55
3658	Incipient Chiller Fault Diagnosis Using an Optimized Least Squares Support Vector Machine With Gravitational Search Algorithm. Frontiers in Energy Research, 2021, 9, .	1.2	9
3659	Breast cancer prediction using a hybrid method based on Butterfly Optimization Algorithm and Ant Lion Optimizer. Computers in Biology and Medicine, 2021, 139, 104968.	3.9	71
3661	Multi-level Thresholding Using Adaptive Gravitational Search Algorithm and Fuzzy Entropy. Lecture Notes in Computer Science, 2020, , 363-372.	1.0	0
3662	Analog IC Sizing Background. , 2020, , 9-64.		0
3663	Control Strategy of Mobile Robots Using Fuzzy-Gravitational Search Method and Review of Other Techniques. Lecture Notes in Mechanical Engineering, 2020, , 565-577.	0.3	0

#	ARTICLE	IF	CITATIONS
3664	When Evolutionary Computing Meets Astro- and Geoinformatics. , 2020, , 283-306.		5
3665	Using Grey Wolf Hunting Mechanism to Improve Spherical Search. , 2020, , .		1
3666	Improved Binary Particle Swarm optimization with Evolutionary Population Dynamic for Key Oncogene Selection. , 2020, , .		1
3667	Binary pathfinder algorithm for bus splitting optimisation problem. IET Generation, Transmission and Distribution, 2020, 14, 6613-6623.	1.4	2
3668	Comparative Study between the Genetic Algorithm and the Artificial Bee Colony Technique: RF Circuits Application. , 2020, , .		3
3669	Bozkurt Optimizasyon Yöntemlerinin Veri Güvenliğine Uyarlanması. Journal of Polytechnic, 0, , .	0.4	3
3670	An improved particle swarm optimization algorithm and its application to solve constrained optimization problems. , 2020, , .		0
3671	Comparisons of Energy Loss Reduction by Phase Balancing in Unbalance Distribution Networks via Metaheuristic Algorithms. , 2020, , .		2
3672	A comprehensive review of modern trends in optimization techniques applied to hybrid microgrid systems. Concurrency Computation Practice and Experience, 2021, 33, e6165.	1.4	7
3673	Iteration Strategy and its Effect Towards the Performance of Population Based Metaheuristics. , 2020, , .		0
3674	Spherical Evolution Enhanced with Salp Swarm Algorithm. , 2020, , .		3
3675	Triangle Search Optimization Algorithm for Single-Objective Bound-Constrained Numerical Optimization. , 2020, , .		0
3676	A Novel Optimization Algorithm Inherited From Gravitational and Spherical Search Dynamics. , 2020, , .		1
3677	TAVLAMA BENZETİM ALGORİTMASI İLE GENELİĞİNE KABLOSUZ ALGILAYICI AĞLARDA LEACH PROTOKOLÜNE OPTİMİZASYONU. Mühendislik Bilimleri Ve Tasarım Dergisi, 2020, 8, 67-79.	0.1	0
3678	A Novel Multi-State Gravitational Search Algorithm for Discrete Optimization Problems. International Journal of Simulation: Systems, Science and Technology, 0, , .	0.0	0
3679	A new chaotic binary gravitational search algorithm and its algorithm test. , 2020, , .		0
3680	IMPROVING SUPPLY-DEMAND-BASED OPTIMIZATION ALGORITHM WITH FDB METHOD: A COMPREHENSIVE RESEARCH ON ENGINEERING DESIGN PROBLEMS. Mühendislik Bilimleri Ve Tasarım Dergisi, 2020, 8, 156-172.	0.1	9
3681	Optimum Design of Damping Controllers Using Modified Sperm Swarm Optimization. IEEE Access, 2021, 9, 145592-145604.	2.6	10

#	ARTICLE	IF	CITATIONS
3682	Improved Harris Hawks Optimization for Configuration of PV Intelligent Edge Terminals. IEEE Transactions on Sustainable Computing, 2022, 7, 631-643.	2.2	3
3683	On the evaluation of permeability of heterogeneous carbonate reservoirs using rigorous data-driven techniques. Journal of Petroleum Science and Engineering, 2022, 208, 109685.	2.1	9
3684	A Novel Binary Emperor Penguin Optimizer for Feature Selection Tasks. Computers, Materials and Continua, 2022, 70, 6239-6255.	1.5	6
3685	MLA: A New Mutated Leader Algorithm for Solving Optimization Problems. Computers, Materials and Continua, 2022, 70, 5631-5649.	1.5	22
3686	Multi-objective load dispatch for microgrid with electric vehicles using modified gravitational search and particle swarm optimization algorithm. Applied Energy, 2022, 306, 118018.	5.1	134
3687	IRKO: An Improved Runge-Kutta Optimization Algorithm for Global Optimization Problems. Computers, Materials and Continua, 2022, 70, 4803-4827.	1.5	26
3688	Advanced strategies on update mechanism of Sine Cosine Optimization Algorithm for feature selection in classification problems. Engineering Applications of Artificial Intelligence, 2022, 107, 104506.	4.3	21
3689	An amended grey wolf optimization with mutation strategy to diagnose bucket defects in Pelton wheel. Measurement: Journal of the International Measurement Confederation, 2022, 187, 110272.	2.5	41
3690	Hybridization of Chaotic Maps and Gravitational Search Algorithm for Constrained Mechanical and Civil Engineering Design Frameworks. International Journal of Applied Metaheuristic Computing, 2022, 13, 0-0.	0.5	0
3691	Orca predation algorithm: A novel bio-inspired algorithm for global optimization problems. Expert Systems With Applications, 2022, 188, 116026.	4.4	69
3692	A chaotic strategy-based quadratic Opposition-Based Learning adaptive variable-speed whale optimization algorithm. Mathematics and Computers in Simulation, 2022, 193, 71-99.	2.4	60
3693	A cuckoo search algorithm with scale-free population topology. Expert Systems With Applications, 2022, 188, 116049.	4.4	7
3694	Salp Swarm Optimization: A critical review. Expert Systems With Applications, 2022, 189, 116029.	4.4	38
3695	Applying CI in Biology through PSO. , 2020, , 502-527.		0
3696	Parallel Asynchronous Memetic Optimization for Freeform Optical Design. Lecture Notes in Computer Science, 2021, , 97-108.	1.0	0
3698	Cancer Cell Prediction Using Machine Learning and Evolutionary Algorithms. Studies in Computational Intelligence, 2020, , 375-398.	0.7	0
3699	Hybrid Nature-Inspired Optimization Techniques in Face Recognition. Lecture Notes in Computer Science, 2020, , 99-126.	1.0	0
3700	GSA to Obtain SVM Kernel Parameter for Thyroid Nodule Classification. IJCCS (Indonesian Journal of) Tj ETQq1 1 0.784314 rgBT /Over 0.3		0

#	ARTICLE	IF	CITATIONS
3701	Power System Security Analysis Using FACTS Devices by Means of Intelligent and Hybrid Techniques Under Different Loading Conditions. Lecture Notes in Electrical Engineering, 2020, , 3-12.	0.3	1
3702	Evolving Long Short-Term Memory Networks. Lecture Notes in Computer Science, 2020, , 337-350.	1.0	4
3703	High-Speed Train Platoon Dynamic Interval Optimization Based on Resilience Adjustment Strategy. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 4402-4414.	4.7	7
3704	Comparison Between Stochastic Gradient Descent and VLE Metaheuristic for Optimizing Matrix Factorization. Communications in Computer and Information Science, 2020, , 153-164.	0.4	0
3705	Improved Multi-verse Optimizer for Numerical Optimization. Proceedings in Adaptation, Learning and Optimization, 2020, , 513-523.	1.5	0
3706	Shape Optimization of Planar Inductors for RF Circuits using a Metaheuristic Technique based on Evolutionary Approach. Advances in Science, Technology and Engineering Systems, 2020, 5, 426-433.	0.4	3
3707	A Hybridization of Gravitational Search Algorithm and Particle Swarm Optimization for Odor Source Localization. , 2020, , 1519-1533.		2
3708	Hybrid Particle Swarm and Gravitational Search Optimization Techniques for Charging Plug-In Hybrid Electric Vehicles. , 2020, , 195-228.		1
3709	Development of safety improvement method in city zones based on road network characteristics. , 2020, 9, 16.		3
3710	Brain MRI image segmentation using nature-inspired Black Hole metaheuristic clustering approach. , 2020, , 37-51.		1
3712	A Hybrid GSA-K-Mean Classifier Algorithm to Predict Diabetes Mellitus. , 2020, , 589-603.		0
3713	Energy Aware Cluster Head Selection for Maximizing Lifetime Improvement in Internet of Things. , 2020, , 1347-1367.		0
3714	Artificial Electric Field Algorithm for Solving Real Parameter CEC 2017 Benchmark Problems. Advances in Intelligent Systems and Computing, 2020, , 161-169.	0.5	2
3715	Test-Case Generation for Model-Based Testing of Object-Oriented Programs. Services and Business Process Reengineering, 2020, , 53-77.	0.3	4
3716	Short-Term Hydrothermal Scheduling Using Bio-inspired Computing: A Review. Algorithms for Intelligent Systems, 2020, , 115-129.	0.5	0
3717	Performance Evaluation of Vector Evaluated Gravitational Search Algorithms Based on ZDT Test Functions. International Journal of Simulation: Systems, Science and Technology, 0, , .	0.0	0
3718	Overview on Binary Optimization Using Swarm-Inspired Algorithms. IEEE Access, 2021, 9, 149814-149858.	2.6	9
3719	Artık Sosyal Öğrenme Tabanlı Diferansiyel Gelişim Algoritması. Bilecik Şeyh Edebali Üniversitesi Fen Bilimleri Dergisi, 0, 7, .	0.1	0

#	ARTICLE	IF	CITATIONS
3720	GSA based PID controller for Load Frequency Control of Multi-Area Hybrid Power System. , 2021, , .		0
3721	Recent Trends in Artificial Intelligence for Emotion Detection using Facial Image Analysis. , 2021, , .		2
3722	Modified Tunicate Swarm Algorithm for Nonlinear Optimization Problems. Lecture Notes on Data Engineering and Communications Technologies, 2022, , 366-381.	0.5	2
3723	Asymptotic Bayesian Optimization: A Markov sampling-based framework for design optimization. Probabilistic Engineering Mechanics, 2022, 67, 103178.	1.3	5
3724	Speed Proportional Integrative Derivative Controller: Optimization Functions in Metaheuristic Algorithms. Journal of Advanced Transportation, 2021, 2021, 1-12.	0.9	3
3725	Snow Leopard Optimization Algorithm: A New Nature-Based Optimization Algorithm for Solving Optimization Problems. Mathematics, 2021, 9, 2832.	1.1	9
3726	Reptile Search Algorithm (RSA): A nature-inspired meta-heuristic optimizer. Expert Systems With Applications, 2022, 191, 116158.	4.4	693
3727	Improved Filter Ranking Incorporated Binary Black Hole Algorithm for Feature Selection. SN Computer Science, 2022, 3, 1.	2.3	2
3728	Artificial Neural Networks Based Optimization Techniques: A Review. Electronics (Switzerland), 2021, 10, 2689.	1.8	139
3729	Parameter Identification for Fractional-order Chaotic System by Using Nelder-Mead Simplex Gravitational Search Algorithm. , 2020, , .		0
3730	PV system reactive power coordination with ULTC & shunt capacitors using grey wolf optimizer algorithm. Indonesian Journal of Electrical Engineering and Computer Science, 2020, 19, 1.	0.7	5
3731	Collective Intelligence of Gravitational Search Algorithm, Big Bang-Big Crunch and Flower Pollination Algorithm for Face Recognition. Algorithms for Intelligent Systems, 2021, , 491-500.	0.5	0
3732	The hDEBSA Global Optimization Method: A Comparative Study on CEC2014 Test Function and Application to Geotechnical Problem. Studies in Computational Intelligence, 2021, , 225-258.	0.7	1
3733	Meta sezgisel yöntemlerle yüksek seviyeli çözümler için ekleme. Journal of the Faculty of Engineering and Architecture of Gazi University, 2020, 36, 213-224.	0.3	2
3734	A Gravitational Search Algorithm Approach for Optimizing Closed-Loop Logistics Network. , 0, , 1768-1789.		0
3735	Optimum Design of Hybrid EDFA/FRA by Particle Swarm Optimization. , 0, , 148-168.		0
3736	Overview of Computational Intelligence. Advances in Environmental Engineering and Green Technologies Book Series, 0, , 18-36.	0.3	8
3737	Fusion of Gravitational Search Algorithm, Particle Swarm Optimization, and Grey Wolf Optimizer for Odor Source Localization. Advances in Computational Intelligence and Robotics Book Series, 0, , 276-302.	0.4	1

#	ARTICLE	IF	CITATIONS
3739	Economic Power Wheeling Using MW-MILE Method Through Gravitational Search Algorithm. Lecture Notes in Electrical Engineering, 2021, , 521-530.	0.3	1
3740	Comparative analysis of evolutionary algorithms for multiple criteria decision making with interval-valued belief distributions. Intelligent Decision Technologies, 2020, 14, 373-391.	0.6	1
3741	Geostationary Communication Satellite Solar Array Optimization Using Gravitation Search Algorithm. Journal of Aerospace Technology and Management, 2020, , .	0.3	1
3742	Experimental Analysis Between Exploration and Exploitation. Intelligent Systems Reference Library, 2021, , 249-269.	1.0	2
3743	ANFIS-Hammerstein Model for Nonlinear Systems Identification Using GSA. Intelligent Systems Reference Library, 2021, , 121-159.	1.0	1
3744	A States of Matter Search-Based Scheme to Solve the Problem of Power Allocation in Plug-in Electric Cars. Intelligent Systems Reference Library, 2021, , 161-176.	1.0	0
3745	KarÄ±nca AslanÄ± Optimizasyon AlgoritmasÄ± Kullanarak GÄ±rÄ±ntÄ± Segmentasyonu Ä°nin Modifiye EdilmiÄ± BAĖilge GeniÄyletme YÄntemi. European Journal of Science and Technology, 0, , .	0.5	0
3746	Early Detection of Dengue Hemorrhagic Fever (DHF) using Feed Forward Neural Network with Gravitational Search Algorithm Optimization. Journal of Physics: Conference Series, 2020, 1655, 012094.	0.3	0
3747	P-IsGOF: A parallel learning-selection-based global optimization framework. Journal of Intelligent and Fuzzy Systems, 2020, 39, 7333-7361.	0.8	1
3749	Mitigation of Harmonics from Output of Cascaded H Bridge Multilevel Inverter Using SHE PWM and AI Technique: A Review. Recent Advances in Electrical and Electronic Engineering, 2020, 13, 952-968.	0.2	3
3750	Enhanced Sparrow Search Algorithm With Mutation Strategy for Global Optimization. IEEE Access, 2021, 9, 159218-159261.	2.6	18
3751	Multi-objective optimization based on an adaptive competitive swarm optimizer. Information Sciences, 2022, 583, 266-287.	4.0	19
3752	Levy Flight and Chaos Theory-Based Gravitational Search Algorithm for Global Optimization. International Journal of Applied Metaheuristic Computing, 2022, 13, 1-58.	0.5	3
3753	Reinforcement Learning-based control using Q-learning and gravitational search algorithm with experimental validation on a nonlinear servo system. Information Sciences, 2022, 583, 99-120.	4.0	99
3754	An improved arithmetic optimization algorithm with forced switching mechanism for global optimization problems. Mathematical Biosciences and Engineering, 2022, 19, 473-512.	1.0	41
3755	Future perspective and current situation of maximum power point tracking methods in thermoelectric generators. Sustainable Energy Technologies and Assessments, 2022, 50, 101824.	1.7	11
3756	Sensitivity-Based Parameterization for Aerodynamic Shape Global Optimization. Journal of Aerospace Engineering, 2022, 35, .	0.8	1
3757	Reactive Power Optimization and Reconstruction of Distribution Network Based on Improved GSA Algorithm. , 2021, , .		2

#	ARTICLE	IF	CITATIONS
3758	Weapon-Target Assignment Problem Using Modified Water Wave Optimization Algorithm. Journal of Physics: Conference Series, 2021, 2068, 012017.	0.3	0
3759	A Modified Slime Mould Algorithm for Global Optimization. Computational Intelligence and Neuroscience, 2021, 2021, 1-22.	1.1	26
3760	Eagle strategy using uniform mutation and modified whale optimization algorithm for QoS-aware cloud service composition. Applied Soft Computing Journal, 2022, 114, 108053.	4.1	28
3761	Two-way threshold-based intelligent water drops feature selection algorithm for accurate detection of breast cancer. Soft Computing, 2022, 26, 2277-2305.	2.1	19
3762	An advanced hybrid algorithm for constrained function optimization with engineering applications. Journal of Ambient Intelligence and Humanized Computing, 2023, 14, 8185-8217.	3.3	4
3763	An Improved Quantum-Inspired Gravitational Search Algorithm to Optimize the Facial Features. International Journal of Pattern Recognition and Artificial Intelligence, 0, , .	0.7	0
3764	Non-convex Dynamic Economic Dispatch Using an Innovative Hybrid Algorithm. Journal of Electrical Engineering and Technology, 2022, 17, 863-902.	1.2	6
3765	Adaptive VMD based optimized deep learning mixed kernel ELM autoencoder for single and multistep wind power forecasting. Energy, 2022, 244, 122585.	4.5	35
3766	An Advanced Hybrid Algorithm for Real-World Optimization Problem. Lecture Notes on Data Engineering and Communications Technologies, 2022, , 397-408.	0.5	0
3767	A New Hybrid Ensemble Deep Learning Model for Train Axle Temperature Short Term Forecasting. Machines, 2021, 9, 312.	1.2	14
3768	Enhancement of frequency stability of power systems integrated with wind energy using marine predator algorithm based PIDA controlled STATCOM. AEJ - Alexandria Engineering Journal, 2022, 61, 5851-5867.	3.4	16
3769	Mechanical Fault Diagnosis of High Voltage Circuit Breaker based on Improved GSO-SVM Algorithm. Journal of Physics: Conference Series, 2021, 2087, 012033.	0.3	2
3770	An accelerated gradient-based optimization development for multi-reservoir hydropower systems optimization. Energy Reports, 2021, 7, 7854-7877.	2.5	22
3771	A Novel Opposition-Based Arithmetic Optimization Algorithm for Parameter Extraction of PEM Fuel Cell. Electronics (Switzerland), 2021, 10, 2834.	1.8	20
3772	Optimization of PEMFC Model Parameters Using Meta-Heuristics. Sustainability, 2021, 13, 12771.	1.6	73
3773	FLEAC: Fuzzy Logic-based Energy Adequate Clustering Protocol for Wireless Sensor Networks using Improved Grasshopper Optimization Algorithm. Wireless Personal Communications, 2022, 124, 573-606.	1.8	11
3774	An Improved Animal Migration Optimization Algorithm to Train the Feed-Forward Artificial Neural Networks. Arabian Journal for Science and Engineering, 2022, 47, 9557-9581.	1.7	10
3775	Blood Coagulation Algorithm: A Novel Bio-Inspired Meta-Heuristic Algorithm for Global Optimization. Mathematics, 2021, 9, 3011.	1.1	10

#	ARTICLE	IF	CITATIONS
3776	Estimation of optimum design of structural systems via machine learning. <i>Frontiers of Structural and Civil Engineering</i> , 2021, 15, 1441-1452.	1.2	11
3777	Design of tunnel FET architectures for low power application using improved Chimp optimizer algorithm. <i>Engineering With Computers</i> , 2023, 39, 1415-1458.	3.5	10
3778	An intelligent chaotic clonal optimizer. <i>Applied Soft Computing Journal</i> , 2022, 115, 108126.	4.1	8
3779	A novel multi-objective optimization algorithm for Pareto design of a fuzzy full state feedback linearization controller applied on a ball and wheel system. <i>Transactions of the Institute of Measurement and Control</i> , 2022, 44, 1388-1409.	1.1	5
3780	Golden sine cosine SALP swarm algorithm for shape matching using atomic potential function. <i>Expert Systems</i> , 2022, 39, e12854.	2.9	5
3781	A conditional opposition-based particle swarm optimisation for feature selection. <i>Connection Science</i> , 2022, 34, 339-361.	1.8	10
3782	Group teaching optimization algorithm with information sharing for numerical optimization and engineering optimization. <i>Journal of Intelligent Manufacturing</i> , 2023, 34, 1547-1571.	4.4	8
3783	Dispersed foraging slime mould algorithm: Continuous and binary variants for global optimization and wrapper-based feature selection. <i>Knowledge-Based Systems</i> , 2022, 237, 107761.	4.0	115
3784	A Levy Flight motivated meta-heuristic approach for enhancing maximum loadability limit in practical power system. <i>Applied Soft Computing Journal</i> , 2022, 114, 108146.	4.1	15
3785	Optimal keyframe selection-based lossless video-watermarking technique using IGSA in LWT domain for copyright protection. <i>Complex & Intelligent Systems</i> , 2022, 8, 1047-1070.	4.0	10
3786	A population-based algorithm with the selection of evaluation precision and size of the population. <i>Applied Soft Computing Journal</i> , 2021, 115, 108154.	4.1	2
3787	Komodo Mlipir Algorithm. <i>Applied Soft Computing Journal</i> , 2022, 114, 108043.	4.1	26
3788	Hunterâ€“prey optimization: algorithm and applications. <i>Soft Computing</i> , 2022, 26, 1279-1314.	2.1	93
3789	Stochastic Multiple Chaotic Local Search-Incorporated Gradient-Based Optimizer. <i>Discrete Dynamics in Nature and Society</i> , 2021, 2021, 1-16.	0.5	4
3790	Optimized lung tumor diagnosis system using enhanced version of crow search algorithm, Zernike moments, and support vector machine. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2021, , 095441192110558.	1.0	2
3791	Northern Goshawk Optimization: A New Swarm-Based Algorithm for Solving Optimization Problems. <i>IEEE Access</i> , 2021, 9, 162059-162080.	2.6	128
3792	A Novel Hybrid Hunger Games Search Algorithm With Differential Evolution for Improving the Behaviors of Non-Cooperative Animals. <i>IEEE Access</i> , 2021, 9, 164188-164205.	2.6	16
3793	Robust Visual Tracking Based on a Modified Flower Pollination Algorithm. <i>IEEE Access</i> , 2021, 9, 157458-157467.	2.6	1

#	ARTICLE	IF	CITATIONS
3794	Fully Elman Neural Network: A Novel Deep Recurrent Neural Network Optimized by an Improved Harris Hawks Algorithm for Classification of Pulmonary Arterial Wedge Pressure. IEEE Transactions on Biomedical Engineering, 2022, 69, 1733-1744.	2.5	16
3795	Information Granulation With Rectangular Information Granules and Its Application in Time-Series Similarity Measurement. IEEE Transactions on Fuzzy Systems, 2022, 30, 4069-4081.	6.5	3
3796	Opposition-Based Learning DE-RSO Hybrid Optimizer. Computer Science and Application, 2021, 11, 2890-2899.	0.0	0
3797	A Novel Distributed Gravitational Search Algorithm With Multi-Layered Information Interaction. IEEE Access, 2021, 9, 166552-166565.	2.6	11
3798	Optimized Robust Controller Design Based on CPSOGSA Optimization Algorithm and H_2 Weights Distribution Method for Load Frequency Control of Micro-Grid. IEEE Access, 2021, 9, 162093-162107.	2.6	8
3799	A Weighted Chimp Optimization Algorithm. IEEE Access, 2021, 9, 158508-158539.	2.6	48
3800	A hybrid multi-population metaheuristic applied to load-sharing optimization of gas compressor stations. Computers and Electrical Engineering, 2022, 97, 107632.	3.0	4
3801	EOSMA: An Equilibrium Optimizer Slime Mould Algorithm for Engineering Design Problems. Arabian Journal for Science and Engineering, 2022, 47, 10115-10146.	1.7	25
3802	Roosters Algorithm: A Novel Nature-Inspired Optimization Algorithm. Computer Systems Science and Engineering, 2022, 42, 727-737.	1.9	0
3803	An Effective Artificial Intelligence Approach for Slope Stability Evaluation. IEEE Access, 2022, 10, 5660-5671.	2.6	25
3804	Differential evolution-assisted salp swarm algorithm with chaotic structure for real-world problems. Engineering With Computers, 2023, 39, 1735-1769.	3.5	38
3805	A Complex-Valued Encoding Multichain Seeker Optimization Algorithm for Engineering Problems. Scientific Programming, 2022, 2022, 1-35.	0.5	1
3806	Distribution network reconfiguration with distributed generation based on parallel slime mould algorithm. Energy, 2022, 244, 123011.	4.5	43
3807	Adaptive grey wolf optimizer. Neural Computing and Applications, 2022, 34, 7711-7731.	3.2	40
3808	Alternate search pattern-based brain storm optimization. Knowledge-Based Systems, 2022, 238, 107896.	4.0	23
3809	Improved whale optimization-based parameter identification algorithm for dynamic deformation of large ships. Ocean Engineering, 2022, 245, 110392.	1.9	6
3810	Battery parameter identification strategy based on modified coot optimization algorithm. Journal of Energy Storage, 2022, 46, 103848.	3.9	24
3811	Comprehensive learning Harris hawks-equilibrium optimization with terminal replacement mechanism for constrained optimization problems. Expert Systems With Applications, 2022, 192, 116432.	4.4	19

#	ARTICLE	IF	CITATIONS
3812	Discrete fractional-order Caputo method to overcome trapping in local optima: Manta Ray Foraging Optimizer as a case study. Expert Systems With Applications, 2022, 192, 116355.	4.4	23
3813	MDA+RRT: A general approach for resolving the problem of angle constraint for hyper-redundant manipulator. Expert Systems With Applications, 2022, 193, 116379.	4.4	13
3814	Study and Improvement of AC Microgrid Stability Using GSA. , 2020, , .		1
3815	A Novel Jackson's Widowbird Mating Optimization Algorithm. , 2020, , .		0
3816	FLC tuned with Gravitational Search Algorithm for Nonlinear Pose Filter. , 2020, , .		1
3817	Optimization of Electricity Consumption using Grey Wolf Algorithm. , 2020, , .		2
3818	Sample-based Fixed-wing UAV Obstacle Avoidance Method. , 2020, , .		0
3819	Combining Genetic and Gravitational Search Algorithms for the Optimal Management of Battery Energy Storage Systems in Real-Time Pricing Markets. , 2020, , .		0
3820	Board-level Intelligent Built-in Test Design of Digital Input Module by Improved BP Neural Network. , 2020, , .		0
3821	Topological optimization algorithm for HAP assisted multi-unmanned ships communication. , 2020, , .		5
3822	Enhanced Imperialist Competitive Algorithm for Optimal Structural Design. Scientia Iranica, 2020, .	0.3	0
3824	LÃ©vy flight and chaos theory-based gravitational search algorithm for mechanical and structural engineering design optimization. Open Computer Science, 2021, 11, 509-529.	1.3	5
3825	MARTI OPTÄ°ZASYON ALGORÄ°TMSININ KISITLI MÄ°HENDÄ°SLÄ°K TASARIM PROBLEMLERÄ° Ä°ZÄ°N PERFORMANS ANALÄ°ZÄ° 0, , .		1
3826	Application of Bioinspired Methods for Solving the Problem of Resource Allocation in Cloud Platforms. , 2021, , .		0
3828	Hybrid Method Based on Metaheuristics and Interior Point for Optimal Power Flow. , 2021, , .		0
3829	Hybrid Optimal Coordination of Overcurrent Relay and Distance Relay for Offshore Wind Farm. , 2021, , .		0
3830	A Novel Metaheuristic: Fast Jaguar Algorithm. , 2021, , .		4
3831	Gradient-based elephant herding optimization for cluster analysis. Applied Intelligence, 2022, 52, 11606-11637.	3.3	7

#	ARTICLE	IF	CITATIONS
3832	Dimensional Learning Strategy-Based Grey Wolf Optimizer for Solving the Global Optimization Problem. <i>Computational Intelligence and Neuroscience</i> , 2022, 2022, 1-31.	1.1	3
3834	Metaheuristics in classification, clustering, and frequent pattern mining. , 2022, , 21-70.		3
3835	An agent-based blackboard system for multi-objective optimization. <i>Journal of Computational Design and Engineering</i> , 2022, 9, 480-506.	1.5	5
3836	Criminal Search Optimization Algorithm: A Population-Based Meta-Heuristic Optimization Technique to Solve Real-World Optimization Problems. <i>Arabian Journal for Science and Engineering</i> , 2022, 47, 3551-3571.	1.7	16
3837	A Novel Hybrid Sine Cosine Algorithm and Pattern Search for Optimal Coordination of Power System Damping Controllers. <i>Sustainability</i> , 2022, 14, 541.	1.6	35
3838	Parameter estimation of solar <scp>PV</scp> models with a new proposed war strategy optimization algorithm. <i>International Journal of Energy Research</i> , 2022, 46, 7215-7238.	2.2	37
3839	An Elastic Collision Seeker Optimization Algorithm for Optimization Constrained Engineering Problems. <i>Mathematical Problems in Engineering</i> , 2022, 2022, 1-28.	0.6	4
3840	A thermal-aware energy-efficient virtual machine placement algorithm based on fuzzy controlled binary gravitational search algorithm (FC-BGSA). <i>Cluster Computing</i> , 2022, 25, 1015-1033.	3.5	8
3841	An adaptive chaotic class topper optimization technique to solve economic load dispatch and emission economic dispatch problem in power system. <i>Soft Computing</i> , 2022, 26, 2913-2934.	2.1	13
3842	A hybrid geneticâ€“firefly algorithm for engineering design problems. <i>Journal of Computational Design and Engineering</i> , 2022, 9, 706-730.	1.5	17
3843	A hybrid whale optimization algorithm with artificial bee colony. <i>Soft Computing</i> , 2022, 26, 2075-2097.	2.1	20
3844	Improved gradual change-based Harris Hawks optimization for real-world engineering design problems. <i>Engineering With Computers</i> , 2023, 39, 1843-1883.	3.5	7
3845	Black hole algorithm: A comprehensive survey. <i>Applied Intelligence</i> , 2022, 52, 11892-11915.	3.3	16
3846	Arithmetic optimization algorithm based on elementary function disturbance for solving economic load dispatch problem in power system. <i>Applied Intelligence</i> , 2022, 52, 11846-11872.	3.3	21
3847	A hybrid optimization method by incorporating adaptive response strategy for Feedforward neural network. <i>Connection Science</i> , 2022, 34, 578-607.	1.8	4
3848	Multiobjective path planning of a solar-powered UAV for secure communication in urban environments with eavesdropping avoidance. , 2022, , 119-137.		0
3849	Solving unconstrained, constrained optimization and constrained engineering problems using reconfigured water cycle algorithm. <i>Evolutionary Intelligence</i> , 2023, 16, 633-649.	2.3	1
3851	Metaheuristic optimization techniques. , 2022, , 27-68.		4

#	ARTICLE	IF	CITATIONS
3852	Solving dimension reduction problems for classification using Promoted Crow Search Algorithm (PCSA). <i>Computing (Vienna/New York)</i> , 2022, 104, 1255-1284.	3.2	3
3853	The stochastic test collection problem: Models, exact and heuristic solution approaches. <i>European Journal of Operational Research</i> , 2022, 299, 945-959.	3.5	3
3854	Pelican Optimization Algorithm: A Novel Nature-Inspired Algorithm for Engineering Applications. <i>Sensors</i> , 2022, 22, 855.	2.1	235
3855	Randomized Balanced Grey Wolf Optimizer (RBCWO) for solving real life optimization problems. <i>Applied Soft Computing Journal</i> , 2022, 117, 108429.	4.1	23
3856	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.	3.2	51
3857	Hybridization of PSO for the Optimal Coordination of Directional Overcurrent Protection Relays. <i>Electronics (Switzerland)</i> , 2022, 11, 180.	1.8	7
3858	Design of optimal environmental flow regime at downstream of multireservoir systems by a coupled SWAT-reservoir operation optimization method. <i>Environment, Development and Sustainability</i> , 2023, 25, 834-854.	2.7	5
3859	Individual Disturbance and Attraction Repulsion Strategy Enhanced Seagull Optimization for Engineering Design. <i>Mathematics</i> , 2022, 10, 276.	1.1	26
3860	A systematic overview of developments in differential evolution and particle swarm optimization with their advanced suggestion. <i>Applied Intelligence</i> , 2022, 52, 10448-10492.	3.3	12
3861	AOAAO: The Hybrid Algorithm of Arithmetic Optimization Algorithm With Aquila Optimizer. <i>IEEE Access</i> , 2022, 10, 10907-10933.	2.6	51
3862	Hybrid Particle Filter Particle Swarm Optimization Algorithm and Application to Fuzzy Controlled Servo Systems. <i>IEEE Transactions on Fuzzy Systems</i> , 2022, 30, 4286-4297.	6.5	117
3863	Clustering with a high-performance secure routing protocol for mobile ad hoc networks. <i>Journal of Supercomputing</i> , 2022, 78, 8830-8851.	2.4	7
3864	Application hybrid GSAPSO Technique for AGC in Inter Connected Power System with Generation Rate Constant. <i>WSEAS Transactions on Circuits and Systems</i> , 2022, 20, 271-288.	0.1	0
3865	A study of exploratory and stability analysis of artificial electric field algorithm. <i>Applied Intelligence</i> , 2022, 52, 10805-10828.	3.3	6
3866	A Surrogate Assisted Quantum-Behaved Algorithm for Well Placement Optimization. <i>IEEE Access</i> , 2022, 10, 17828-17844.	2.6	4
3867	An efficient orthogonal opposition-based learning slime mould algorithm for maximum power point tracking. <i>Neural Computing and Applications</i> , 2022, 34, 3671-3695.	3.2	18
3868	Sustainable Conjunctive Water Use Modeling Using Dual Fitness Particle Swarm Optimization Algorithm. <i>Water Resources Management</i> , 2022, 36, 989-1006.	1.9	13
3869	Offline parameter estimation of a modified permanent magnet generator using GSA and GSA-PSO. <i>Soft Computing</i> , 2022, 26, 6333-6345.	2.1	3

#	ARTICLE	IF	CITATIONS
3870	An efficient IDS in cloud environment using feature selection based on DM algorithm. Journal of Computer Virology and Hacking Techniques, 2022, 18, 243-258.	1.6	4
3871	Prediction of Oil Recovery Factor in Stratified Reservoirs after Immiscible Water-Alternating Gas Injection Based on PSO-, GSA-, GWO-, and GA-LSSVM. Energies, 2022, 15, 656.	1.6	6
3872	A Multi-Strategy Seeker Optimization Algorithm for Optimization Constrained Engineering Problems. IEEE Access, 2022, 10, 7165-7195.	2.6	11
3873	Parameters Optimization of Taguchi Method Integrated Hybrid Harmony Search Algorithm for Engineering Design Problems. Mathematics, 2022, 10, 327.	1.1	14
3874	An Enhanced Grey Wolf Optimizer with a Velocity-Aided Global Search Mechanism. Mathematics, 2022, 10, 351.	1.1	16
3875	Dynamic Arithmetic Optimization Algorithm for Truss Optimization Under Natural Frequency Constraints. IEEE Access, 2022, 10, 16188-16208.	2.6	61
3876	Improved multi-core arithmetic optimization algorithm-based ensemble mutation for multidisciplinary applications. Journal of Intelligent Manufacturing, 2023, 34, 1833-1874.	4.4	16
3877	Boosting whale optimization with evolution strategy and Gaussian random walks: an image segmentation method. Engineering With Computers, 2023, 39, 1935-1979.	3.5	65
3878	A Novel Biologically Inspired Approach for Clustering and Multi-Level Image Thresholding: Modified Harris Hawks Optimizer. Cognitive Computation, 0, , 1.	3.6	2
3879	Self-adaptive Equilibrium Optimizer for solving global, combinatorial, engineering, and Multi-Objective problems. Expert Systems With Applications, 2022, 195, 116552.	4.4	40
3880	Chaotic adaptive sailfish optimizer with genetic characteristics for global optimization. Journal of Supercomputing, 2022, 78, 10950-10996.	2.4	7
3881	Dynamic multi-swarm differential learning harris hawks optimizer and its application to optimal dispatch problem of cascade hydropower stations. Knowledge-Based Systems, 2022, 242, 108281.	4.0	11
3882	Competitive search algorithm: a new method for stochastic optimization. Applied Intelligence, 2022, 52, 12131-12154.	3.3	10
3883	Automatic learning styles prediction: a survey of the State-of-the-Art (2006â€“2021). Journal of Computers in Education, 2022, 9, 587-679.	5.0	9
3884	Influence of probability distribution initialization methods on the performance of advanced arithmetic optimization algorithm with application to unrelated parallel machine scheduling problem. Concurrency Computation Practice and Experience, 2022, 34, .	1.4	4
3885	Integrated optimization of transfer station selection and train timetables for roadâ€“rail intermodal transport network. Computers and Industrial Engineering, 2022, 165, 107929.	3.4	13
3886	Parameterization of photovoltaic solar cell double-diode model based on improved arithmetic optimization algorithm. Optik, 2022, 253, 168600.	1.4	33
3887	Mutation-driven grey wolf optimizer with modified search mechanism. Expert Systems With Applications, 2022, 194, 116450.	4.4	31

#	ARTICLE	IF	CITATIONS
3888	A novel method based on fuzzy logic to evaluate the storage and backup systems in determining the optimal size of a hybrid renewable energy system. <i>Journal of Energy Storage</i> , 2022, 49, 104015.	3.9	16
3889	CCSA: Cellular Crow Search Algorithm with topological neighborhood shapes for optimization. <i>Expert Systems With Applications</i> , 2022, 194, 116431.	4.4	12
3890	Fast data reduction by space partitioning via convex hull and MBR computation. <i>Pattern Recognition</i> , 2022, 126, 108553.	5.1	8
3891	INFO: An efficient optimization algorithm based on weighted mean of vectors. <i>Expert Systems With Applications</i> , 2022, 195, 116516.	4.4	356
3892	Economic Load Dispatch: A Holistic Review on Modern Bio-inspired Optimization Techniques. <i>Algorithms for Intelligent Systems</i> , 2022, , 505-517.	0.5	1
3893	Adaptive Rat Swarm Optimization for Optimum Tuning of SVC and PSS in a Power System. <i>International Transactions on Electrical Energy Systems</i> , 2022, 2022, 1-13.	1.2	10
3896	An Improved Whale Optimization Algorithm Based on Aggregation Potential Energy for QoS-Driven Web Service Composition. <i>Wireless Communications and Mobile Computing</i> , 2022, 2022, 1-13.	0.8	3
3897	Improved whale optimization algorithm based on variable spiral position update strategy and adaptive inertia weight. <i>Journal of Intelligent and Fuzzy Systems</i> , 2022, 42, 1501-1517.	0.8	7
3898	Improved Binary Adaptive Wind Driven Optimization Algorithm-Based Dimensionality Reduction for Supervised Classification. <i>Computers and Industrial Engineering</i> , 2022, 167, 107904.	3.4	13
3899	A Review on Optimization of Active Power Filter Placement and Sizing Methods. <i>Energies</i> , 2022, 15, 1175.	1.6	24
3900	Investigation of performance of fuzzy logic controllers optimized with the hybrid genetic-gravitational search algorithm for PMSM speed control. <i>Automatika</i> , 2022, 63, 313-327.	1.2	8
3901	Tangent search algorithm for solving optimization problems. <i>Neural Computing and Applications</i> , 2022, 34, 8853-8884.	3.2	24
3902	HSSAHHO: a novel hybrid Salp Swarm-Harris Hawks optimization algorithm for complex engineering problems. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2023, 14, 11569-11605.	3.3	15
3904	Enhanced sine cosine algorithm using opposition learning, adaptive evolution and neighborhood search strategies for multivariable parameter optimization problems. <i>Applied Soft Computing Journal</i> , 2022, 119, 108562.	4.1	14
3905	A Meta-Heuristic Optimization Based Less Imperceptible Adversarial Attack on Gait Based Surveillance Systems. <i>Journal of Signal Processing Systems</i> , 0, , 1.	1.4	3
3906	Dynamic chaotic gravitational search algorithm-based kinetic parameter estimation of hepatocellular carcinoma on 18F-FDG PET/CT. <i>BMC Medical Imaging</i> , 2022, 22, 20.	1.4	4
3907	Hierarchical Optimization Algorithm and Applications of Spacecraft Trajectory Optimization. <i>Aerospace</i> , 2022, 9, 81.	1.1	3
3908	The Gaussian Mutational Barebone Dragonfly Algorithm: From Design to Analysis. <i>Symmetry</i> , 2022, 14, 331.	1.1	4

#	ARTICLE	IF	CITATIONS
3909	Fuzzy whale optimisation algorithm: a new hybrid approach for automatic sonar target recognition. Journal of Experimental and Theoretical Artificial Intelligence, 2023, 35, 309-325.	1.8	12
3910	Snake Optimizer: A novel meta-heuristic optimization algorithm. Knowledge-Based Systems, 2022, 242, 108320.	4.0	317
3911	A novel fractional time-delayed grey Bernoulli forecasting model and its application for the energy production and consumption prediction. Engineering Applications of Artificial Intelligence, 2022, 110, 104683.	4.3	33
3912	Improved slime mould algorithm with elitist strategy and its application to structural optimization with natural frequency constraints. Computers and Structures, 2022, 264, 106760.	2.4	21
3913	BinBRO: Binary Battle Royale Optimizer algorithm. Expert Systems With Applications, 2022, 195, 116599.	4.4	12
3914	Shared seagull optimization algorithm with mutation operators for global optimization. AIP Advances, 2021, 11, .	0.6	5
3916	Enhanced Slime Mould Algorithm for Multilevel Thresholding Image Segmentation Using Entropy Measures. Entropy, 2021, 23, 1700.	1.1	31
3917	Archery Algorithm: A Novel Stochastic Optimization Algorithm for Solving Optimization Problems. Computers, Materials and Continua, 2022, 72, 399-416.	1.5	14
3919	An Adaptive Tunicate Swarm Algorithm for Optimization of Shallow Foundation. IEEE Access, 2022, 10, 39204-39219.	2.6	11
3920	Metaheuristic Algorithms for Integrated Navigation Systems. Studies in Computational Intelligence, 2022, , 45-72.	0.7	2
3921	Performance optimization of annealing salp swarm algorithm: frameworks and applications for engineering design. Journal of Computational Design and Engineering, 2022, 9, 633-669.	1.5	15
3922	An improved remora optimization algorithm with autonomous foraging mechanism for global optimization problems. Mathematical Biosciences and Engineering, 2022, 19, 3994-4037.	1.0	22
3923	Tasmanian Devil Optimization: A New Bio-Inspired Optimization Algorithm for Solving Optimization Algorithm. IEEE Access, 2022, 10, 19599-19620.	2.6	84
3924	Eurasian oystercatcher optimiser: New meta-heuristic algorithm. Journal of Intelligent Systems, 2022, 31, 332-344.	1.2	13
3925	A Feature-Weighting Approach Using Metaheuristic Algorithms to Evaluate the Performance of Handball Goalkeepers. IEEE Access, 2022, 10, 30556-30572.	2.6	0
3926	Modeling of Fuzzy Logic-Based Classification System Using the Gravitational Search Algorithm. Studies in Big Data, 2022, , 79-94.	0.8	7
3927	Comparison of Passive and Active Tuned Mass Dampers for Structures Subjected to Earthquake Excitations. International Journal of Digital Innovation in the Built Environment, 2022, 11, 0-0.	0.1	1
3928	War Strategy Optimization Algorithm: A New Effective Metaheuristic Algorithm for Global Optimization. IEEE Access, 2022, 10, 25073-25105.	2.6	134

#	ARTICLE	IF	CITATIONS
3930	Review of Nature Inspired Metaheuristic Algorithm Selection for Combinatorial t-Way Testing. IEEE Access, 2022, 10, 27404-27431.	2.6	12
3932	Dipper Throated Optimization Algorithm for Unconstrained Function and Feature Selection. Computers, Materials and Continua, 2022, 72, 1465-1481.	1.5	25
3934	An Adaptive Whale Optimization Algorithm with Mahalanobis Distance for Optimization Problems. , 2022, , .		0
3935	An enhanced seagull optimization algorithm for solving engineering optimization problems. Applied Intelligence, 2022, 52, 13043-13081.	3.3	15
3936	A Modified Ant Lion Optimization Method and Its Application for Instance Reduction Problem in Balanced and Imbalanced Data. Axioms, 2022, 11, 95.	0.9	8
3937	Parameter Extraction of Solar Module Using the Sooty Tern Optimization Algorithm. Electronics (Switzerland), 2022, 11, 564.	1.8	20
3938	Perovskite tetragonality modeling for functional properties enhancement using Newtonian search based support vector regression computational method. Journal of the Nigerian Society of Physical Sciences, 0, , 20-26.	0.0	1
3939	An efficient SCM based IDS in cloud environment. Computing (Vienna/New York), 2022, 104, 553-576.	3.2	4
3940	Dynamic exploitation Gaussian bareâ€šbones bat algorithm for optimal reactive power dispatch to improve the safety and stability of power system. IET Renewable Power Generation, 2022, 16, 1401-1424.	1.7	1
3941	Upper bound solution for active thrust of nonhomogeneous cohesive soil considering effects of intermediate principal stress. Journal of Central South University, 2022, 29, 582-595.	1.2	3
3942	Boosting arithmetic optimization algorithm by sine cosine algorithm and levy flight distribution for solving engineering optimization problems. Neural Computing and Applications, 2022, 34, 8823-8852.	3.2	25
3943	A Review of Reservoir Operation Optimisations: from Traditional Models to Metaheuristic Algorithms. Archives of Computational Methods in Engineering, 2022, 29, 3435-3457.	6.0	29
3944	Swarm Optimization for Energy-Based Acoustic Source Localization: A Comprehensive Study. Sensors, 2022, 22, 1894.	2.1	4
3945	Parameter Control Based Cuckoo Search Algorithm for Numerical Optimization. Neural Processing Letters, 2022, 54, 3173-3200.	2.0	6
3946	Selecting Some Variables to Update-Based Algorithm for Solving Optimization Problems. Sensors, 2022, 22, 1795.	2.1	5
3947	Maximizing Sustainability in Reservoir Operation under Climate Change Using a Novel Adaptive Accelerated Gravitational Search Algorithm. Water (Switzerland), 2022, 14, 905.	1.2	3
3948	GSA-based support vector neural network: a machine learning approach for crop prediction to provision sustainable farming. International Journal of Intelligent Computing and Cybernetics, 2023, 16, 1-16.	1.6	5
3949	Optimal energy management of micro grid connected system: a hybrid approach. Journal of Ambient Intelligence and Humanized Computing, 2022, 13, 2343.	3.3	0

#	ARTICLE	IF	CITATIONS
3950	Detection of Glaucoma from Fundus Images Using Novel Evolutionary-Based Deep Neural Network. Journal of Digital Imaging, 2022, , 1.	1.6	2
3951	An improved parasitism predation algorithm for frequency regulation of a virtual inertia control based AC microgrid. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2022, 44, 1660-1677.	1.2	6
3952	An Efficient Electric Charged Particles Optimization Algorithm for Numerical Optimization and Optimal Estimation of Photovoltaic Models. Mathematics, 2022, 10, 913.	1.1	9
3953	Antenna Array Pattern Synthesis Using Metaheuristic Algorithms: A Review. IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India), 2023, 40, 90-115.	2.1	4
3954	Soft Computing Methods and Water Management. , 2022, , 342-373.		0
3955	Neighborhood Learning-Based Cuckoo Search Algorithm for Global Optimization. International Journal of Pattern Recognition and Artificial Intelligence, 2022, 36, .	0.7	4
3956	Battle Royale Optimizer for solving binary optimization problems. Software Impacts, 2022, 12, 100274.	0.8	5
3957	An Improved Tunicate Swarm Algorithm with Best-random Mutation Strategy for Global Optimization Problems. Journal of Bionic Engineering, 2022, 19, 1177-1202.	2.7	61
3958	Enhanced slime mould algorithm with multiple mutation strategy and restart mechanism for global optimization. Journal of Intelligent and Fuzzy Systems, 2022, 42, 5069-5083.	0.8	2
3959	K-Means Segmentation of Underwater Image Based on Improved Manta Ray Algorithm. Computational Intelligence and Neuroscience, 2022, 2022, 1-26.	1.1	4
3960	A new optimization algorithm based on average and subtraction of the best and worst members of the population for solving various optimization problems. PeerJ Computer Science, 2022, 8, e910.	2.7	13
3961	Hybridized Particle Swarm Gravitational Search Algorithm for Process Optimization. Processes, 2022, 10, 616.	1.3	21
3962	Memory based hybrid crow search algorithm for solving numerical and constrained global optimization problems. Artificial Intelligence Review, 2023, 56, 27-99.	9.7	19
3963	QoS-Aware Algorithm Based on Task Flow Scheduling in Cloud Computing Environment. Sensors, 2022, 22, 2632.	2.1	6
3964	Nature inspired optimization algorithms: a comprehensive overview. Evolving Systems, 2023, 14, 141-156.	2.4	17
3965	A Novel Grey Wolf Optimisation based CNN Classifier for Hyperspectral Image classification. Multimedia Tools and Applications, 2022, 81, 28207-28230.	2.6	8
3966	A novel arithmetic optimization algorithm based on chaotic maps for global optimization. Evolutionary Intelligence, 2023, 16, 981-996.	2.3	14
3967	Gene selection using pyramid gravitational search algorithm. PLoS ONE, 2022, 17, e0265351.	1.1	6

#	ARTICLE	IF	CITATIONS
3968	Gravitational search algorithm-driven missing links prediction in social networks. <i>Concurrency Computation Practice and Experience</i> , 2022, 34, .	1.4	4
3969	A boosted chimp optimizer for numerical and engineering design optimization challenges. <i>Engineering With Computers</i> , 2023, 39, 2463-2514.	3.5	12
3970	A new hybrid algorithm based on golden eagle optimizer and grey wolf optimizer for 3D path planning of multiple UAVs in power inspection. <i>Neural Computing and Applications</i> , 2022, 34, 11911-11936.	3.2	13
3971	Hybrid parallelization of the black hole algorithm for systems on chip. <i>Integrated Computer-Aided Engineering</i> , 2022, , 1-15.	2.5	0
3973	City councils evolution: a socio-inspired metaheuristic optimization algorithm. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2023, 14, 12207-12256.	3.3	12
3974	EDO: An Elastic Deformation Optimization Algorithm. <i>Applied Intelligence</i> , 2022, 52, 17580-17599.	3.3	3
3975	EIS equivalent circuit model prediction using interpretable machine learning and parameter identification using global optimization algorithms. <i>Electrochimica Acta</i> , 2022, 418, 140350.	2.6	19
3976	Adaptive Relative Reflection Harris Hawks Optimization for Global Optimization. <i>Mathematics</i> , 2022, 10, 1145.	1.1	5
3977	A Linearly Adaptive Sine-Cosine Algorithm with Application in Deep Neural Network for Feature Optimization in Arrhythmia Classification using ECG Signals. <i>Knowledge-Based Systems</i> , 2022, 242, 108411.	4.0	14
3978	Enhanced Parallel Sine Cosine Algorithm for Constrained and Unconstrained Optimization. <i>Mathematics</i> , 2022, 10, 1166.	1.1	2
3979	Multi-robot cooperation and path planning for stick transporting using improved Q-learning and democratic robotics PSO. <i>Journal of Computational Science</i> , 2022, 60, 101637.	1.5	11
3980	Fuzzy clustering using gravitational search algorithm for brain image segmentation. <i>Multimedia Tools and Applications</i> , 2022, 81, 29633-29652.	2.6	10
3981	The structural weight design method based on the modified grasshopper optimization algorithm. <i>Multimedia Tools and Applications</i> , 2022, 81, 29977-30005.	2.6	1
3982	Design optimization of the complementary voltage controlled oscillator using a multi-objective gravitational search algorithm. <i>Evolving Systems</i> , 2023, 14, 59-67.	2.4	1
3983	An improved marine predators algorithm for the optimal design of hybrid renewable energy systems. <i>Engineering Applications of Artificial Intelligence</i> , 2022, 110, 104722.	4.3	20
3984	Improvement and application of hybrid real-coded genetic algorithm. <i>Applied Intelligence</i> , 2022, 52, 17410-17448.	3.3	10
3985	Error-free and mean value based reversible data hiding using gravitational search algorithm in encrypted images. <i>Multimedia Tools and Applications</i> , 2022, 81, 30749-30768.	2.6	2
3986	Adaptive initialization LSHADE algorithm enhanced with gradient-based repair for real-world constrained optimization. <i>Knowledge-Based Systems</i> , 2022, 246, 108696.	4.0	7

#	ARTICLE	IF	CITATIONS
3987	A new intrusion detection method for cyber-physical system in emerging industrial IoT. <i>Computer Communications</i> , 2022, 190, 24-35.	3.1	9
3988	A dynamic multi-swarm cooperation particle swarm optimization with dimension mutation for complex optimization problem. <i>International Journal of Machine Learning and Cybernetics</i> , 2022, 13, 2581-2608.	2.3	5
3989	Online metaheuristic algorithm selection. <i>Expert Systems With Applications</i> , 2022, 201, 117058.	4.4	6
3990	An ameliorated African vulture optimization algorithm to diagnose the rolling bearing defects. <i>Measurement Science and Technology</i> , 2022, 33, 075013.	1.4	30
3991	Bibliometric analysis of nature inspired optimization techniques. <i>Computers and Industrial Engineering</i> , 2022, 169, 108161.	3.4	7
3992	A systematic review of meta-heuristic algorithms in IoT based application. <i>Array</i> , 2022, 14, 100164.	2.5	33
3993	A Novel Quasi-oppositional Chaotic Harris Hawk's Optimization Algorithm for Optimal Siting and Sizing of Distributed Generation in Radial Distribution System. <i>Neural Processing Letters</i> , 2022, 54, 4051-4121.	2.0	2
3994	The water optimization algorithm: a novel metaheuristic for solving optimization problems. <i>Applied Intelligence</i> , 2022, 52, 17990-18029.	3.3	12
3995	Hybrid leader based optimization: a new stochastic optimization algorithm for solving optimization applications. <i>Scientific Reports</i> , 2022, 12, 5549.	1.6	22
3996	Coverage Control Algorithm for DSNs Based on Improved Gravitational Search. <i>IEEE Sensors Journal</i> , 2022, 22, 7340-7351.	2.4	4
3997	A meta-inspired termite queen algorithm for global optimization and engineering design problems. <i>Engineering Applications of Artificial Intelligence</i> , 2022, 111, 104805.	4.3	20
3998	A multiagent system based cuckoo search optimization for parameter identification of photovoltaic cell using Lambert W-function. <i>Applied Soft Computing Journal</i> , 2022, 120, 108678.	4.1	18
3999	White Shark Optimizer: A novel bio-inspired meta-heuristic algorithm for global optimization problems. <i>Knowledge-Based Systems</i> , 2022, 243, 108457.	4.0	206
4000	A dynamic stochastic search algorithm for high-dimensional optimization problems and its application to feature selection. <i>Knowledge-Based Systems</i> , 2022, 244, 108517.	4.0	8
4001	A bottlenose dolphin optimizer: An application to solve dynamic emission economic dispatch problem in the microgrid. <i>Knowledge-Based Systems</i> , 2022, 243, 108455.	4.0	18
4002	A novel nomad migration-inspired algorithm for global optimization. <i>Computers and Electrical Engineering</i> , 2022, 100, 107862.	3.0	6
4003	Temperature drift compensation of fiber strapdown inertial navigation system based on GSA-SVR. <i>Measurement: Journal of the International Measurement Confederation</i> , 2022, 195, 111117.	2.5	10
4004	A powerful meta-heuristic search algorithm for solving global optimization and real-world solar photovoltaic parameter estimation problems. <i>Engineering Applications of Artificial Intelligence</i> , 2022, 111, 104763.	4.3	35

#	ARTICLE	IF	CITATIONS
4005	AltWOA: Altruistic Whale Optimization Algorithm for feature selection on microarray datasets. Computers in Biology and Medicine, 2022, 144, 105349.	3.9	47
4006	Hierarchical Harris hawks optimization for epileptic seizure classification. Computers in Biology and Medicine, 2022, 145, 105397.	3.9	19
4007	Improved Lévy flight distribution algorithm with FDB-based guiding mechanism for AVR system optimal design. Computers and Industrial Engineering, 2022, 168, 108032.	3.4	21
4008	A survey on dendritic neuron model: Mechanisms, algorithms and practical applications. Neurocomputing, 2022, 489, 390-406.	3.5	11
4009	A ranking-based fuzzy adaptive hybrid crow search algorithm for combined heat and power economic dispatch. Expert Systems With Applications, 2022, 197, 116625.	4.4	19
4010	Golden jackal optimization: A novel nature-inspired optimizer for engineering applications. Expert Systems With Applications, 2022, 198, 116924.	4.4	223
4011	Enhanced sine cosine algorithm with crossover: A comparative study and empirical analysis. Expert Systems With Applications, 2022, 198, 116856.	4.4	5
4012	An efficient optimizer for optimal overcurrent relay coordination in power distribution system. Expert Systems With Applications, 2022, 199, 116858.	4.4	8
4013	A novel version of slime mould algorithm for global optimization and real world engineering problems. Mathematics and Computers in Simulation, 2022, 198, 253-288.	2.4	33
4014	Binary Simulated Normal Distribution Optimizer for feature selection: Theory and application in COVID-19 datasets. Expert Systems With Applications, 2022, 200, 116834.	4.4	21
4015	An Efficient Heap-Based Optimizer for Parameters Identification of Modified Photovoltaic Models. Ain Shams Engineering Journal, 2022, 13, 101728.	3.5	33
4016	Körsel Optimizasyon için Gauss Kaotik Haritası ile Kartal Optimizasyonu. Fırat Üniversitesi Mühendislik Bilimleri Dergisi, 2022, 34, 85-104.	0.2	2
4017	Application of GSA-SVR in Short-term Traffic State Prediction Model of Urban Roads. , 2021, , .		1
4018	Enhanced Tunicate Swarm Algorithm for Solving Large-Scale Nonlinear Optimization Problems. International Journal of Computational Intelligence Systems, 2021, 14, 1.	1.6	14
4019	PSO-Based PI Controller for Voltage-Oriented Controller based Vienna Rectifier for Electric Vehicle Charging Stations. , 2021, , .		2
4020	Stability Improvement of Power System with Wind Integration based on L-index. , 2021, , .		0
4021	Parameters Optimization for Improved Grey Wolf Optimizer by Using Uniform Experimental Design. , 2021, , .		0
4022	An Analysis of Initialization Techniques of Particle Swarm Optimization Algorithm for Global Optimization. , 2021, , .		4

#	ARTICLE	IF	CITATIONS
4023	Optimal Settings of Volt-Var Control of PV Smart Inverter in Active Distribution Networks Using Gravitational Search Algorithm. , 2021, , .		2
4024	Ranked Hunger Games Search Algorithms with Gaussian Distribution-based Fitness Distance Balance Strategy. , 2021, , .		1
4026	Simulation study for Total Harmonic Distortion of a 3-phase Inverter using Gravitational Search Algorithm and PSO Technique. , 2021, , .		0
4027	Experimental Analysis of Effect of Tuning Parameters on The Performance of Diversity-Driven Multi-Parent Evolutionary Algorithm. , 2021, , .		13
4028	COVID-19 Confirmed Cases Prediction in China Based on Barnacles Mating Optimizer-Least Squares Support Vector Machines. Cybernetics and Information Technologies, 2021, 21, 62-76.	0.4	4
4029	Archimedes Optimization Algorithm Based Selective Harmonic Elimination in a Cascaded H-Bridge Multilevel Inverter. Sustainability, 2022, 14, 310.	1.6	15
4030	A Tent Marine Predators Algorithm with Estimation Distribution Algorithm and Gaussian Random Walk for Continuous Optimization Problems. Computational Intelligence and Neuroscience, 2021, 2021, 1-17.	1.1	9
4031	A Hybrid Whale Optimization and Particle Swarm Optimization Algorithm. , 2021, , .		2
4032	An Evolutionary Frog Leaping Algorithm for Global Optimization Problems and Applications. Computational Intelligence and Neuroscience, 2021, 2021, 1-31.	1.1	5
4033	A novel massive MIMO strategy for optimal antenna selection via hybrid algorithm. International Journal of Electronics, 0, , 1-18.	0.9	0
4034	Convergence Analysis of Gravity-Based Clustering (GBC) Algorithm. , 2021, , .		0
4035	Meta-optimization of the parameters for the gravitational search algorithm in chemical kinetics problems. Journal of Physics: Conference Series, 2021, 2131, 022005.	0.3	0
4036	Forecasting of excavation problems for high-rise building in Vietnam using planet optimization algorithm. Scientific Reports, 2021, 11, 23809.	1.6	18
4037	A Hybrid Butterfly Optimization Algorithm for Numerical Optimization Problems. Computational Intelligence and Neuroscience, 2021, 2021, 1-14.	1.1	7
4038	An improved chaotic ideal gas molecular movement algorithm for engineering optimization problems. Expert Systems, 2022, 39, .	2.9	1
4039	A New Hybrid Approach of Gravitational Search Algorithm with Spiral-Shaped Mechanism-based RBF Neural Network. , 2021, , .		0
4040	An Improved Grey Wolves Optimization Algorithm for Dynamic Community Detection and Data Clustering. Applied Artificial Intelligence, 2022, 36, .	2.0	8
4041	Yüksek Boyutlu Problemlerin Global Optimizasyonu için Uygunluk Mesafe Dengesi Tabanlı Rehber Mekanizmasıyla Runge Kutta Optimize Edicinin Üytilmesi. Düzce Üniversitesi Bilim Ve Teknoloji Dergisi, 2021, 9, 135-149.	0.2	7

#	ARTICLE	IF	CITATIONS
4042	Intelligent gravitational search random forest algorithm for fake news detection. International Journal of Modern Physics C, 2022, 33, .	0.8	9
4043	DCT Coefficients Weighting (DCTCW)-Based Gray Wolf Optimization (GWO) for Brightness Preserving Image Contrast Enhancement. International Journal of Image and Graphics, 0, , .	1.2	0
4044	KâsÄ±tlÄ± MÄ¼hendislik Problemlerinin KarÄ±laÅ±tÄ±lmalÄ± AÄ±rlÄ±k ve Maliyet Optimizasyonu. MÄ¼hendis Ve Makina, 0, , 784-805.	0.4	2
4045	Global Optimizasyonu iÅin Uygunluk Mesafe Dengesi Tabanlı Rehber MekanÄ±zmasÄ±yla Slime Mould Optimize Edicinin Ä°yileÅtirilmesi. DÄ¼zce Ä°niversitesi Bilim Ve Teknoloji Dergisi, 2021, 9, 40-54.	0.2	3
4046	A Nikaido Isoda-Based Hybrid Genetic Algorithm and Relaxation Method for Finding Nash Equilibrium. Mathematics, 2022, 10, 81.	1.1	0
4047	Optimal Allocation of Multiple Distributed Generation Units (Type I) in Radial distribution Topology for loss minimization. , 2021, , .		3
4048	A Novel Elite Information Interaction Based Differential Evolution. , 2021, , .		1
4049	An Enhanced Slime Mould Algorithm and Its Application for Digital IIR Filter Design. Discrete Dynamics in Nature and Society, 2021, 2021, 1-23.	0.5	13
4050	MCS-HMS: A Multi-Cluster Selection Strategy for the Human Mental Search Algorithm. , 2021, , .		2
4051	Application of AMOGWO in Multi-Objective Optimal Allocation of Water Resources in Handan, China. Water (Switzerland), 2022, 14, 63.	1.2	0
4052	Maximum Power Point Tracking of a Network-Connected Photovoltaic System Based on Gravity Search Algorithm and Fuzzy Logic Controller. Journal of Solar Energy Research Updates, 0, 7, 52-63.	0.0	3
4053	Transmit Antenna Selection, Power and Energy Efficient Algorithm for Massive MIMO Applications. , 2022, , .		0
4054	Golden Search Optimization Algorithm. IEEE Access, 2022, 10, 37515-37532.	2.6	33
4055	Novel Meta-Heuristic Algorithm for Feature Selection, Unconstrained Functions and Engineering Problems. IEEE Access, 2022, 10, 40536-40555.	2.6	58
4056	Communication-based Optimization Algorithm: A Meta-heuristic Technique for Solving Single-Objective Problems. , 2022, , .		1
4057	Parameters estimation of double-cage induction motors using a hybrid metaheuristic algorithm. , 2022, , .		2
4058	An Aggregated Revenue-Driven VPP Model Based on Marginal Price Tracking for Profit Maximization. , 2022, , .		7
4059	Chimp Optimization Algorithm to Optimize a Convolutional Neural Network for Recognizing Persian/Arabic Handwritten Words. Mathematical Problems in Engineering, 2022, 2022, 1-12.	0.6	4

#	ARTICLE	IF	CITATIONS
4060	An efficient metaheuristic method based on the BitTorrent communication protocol (EM-BT). <i>Evolutionary Intelligence</i> , 2023, 16, 1115-1134.	2.3	2
4061	UAV Path Planning Using Optimization Approaches: A Survey. <i>Archives of Computational Methods in Engineering</i> , 2022, 29, 4233-4284.	6.0	42
4062	An enhanced approach for optimizing mathematical and structural problems by combining PSO, GSA and gradient directions. <i>Soft Computing</i> , 2022, 26, 11891-11913.	2.1	3
4063	MOTEO: a novel multi-objective thermal exchange optimization algorithm for engineering problems. <i>Soft Computing</i> , 2022, 26, 6659-6684.	2.1	22
4064	An improved multi-population whale optimization algorithm. <i>International Journal of Machine Learning and Cybernetics</i> , 2022, 13, 2447-2478.	2.3	5
4065	A critical review on optimization parameters and techniques for gas pipeline operation profitability. <i>Journal of Petroleum Exploration and Production</i> , 2022, 12, 3033-3057.	1.2	7
4066	Chaotic Search-Based Salp Swarm Algorithm for Dealing with System of Nonlinear Equations and Power System Applications. <i>Mathematics</i> , 2022, 10, 1368.	1.1	3
4067	An Improved Wild Horse Optimizer for Solving Optimization Problems. <i>Mathematics</i> , 2022, 10, 1311.	1.1	39
4068	Sand Cat swarm optimization: a nature-inspired algorithm to solve global optimization problems. <i>Engineering With Computers</i> , 2023, 39, 2627-2651.	3.5	118
4069	An enhanced hybrid arithmetic optimization algorithm for engineering applications. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022, 394, 114901.	3.4	72
4070	EmiR: Evolutionary minimization for R. <i>SoftwareX</i> , 2022, 18, 101083.	1.2	0
4071	Overview of Computational Intelligence. , 0, , 12-31.		1
4072	A Hybrid Meta-Heuristic Method and Weighted Least Squares Support Vector Machine Method for the Optimal Shape Design of Gravity Dams. , 0, , .		0
4073	Mud Ring Algorithm: A New Meta-Heuristic Optimization Algorithm for Solving Mathematical and Engineering Challenges. <i>IEEE Access</i> , 2022, 10, 50448-50466.	2.6	19
4074	Opposition-based ant colony optimization with all-dimension neighborhood search for engineering design. <i>Journal of Computational Design and Engineering</i> , 2022, 9, 1007-1044.	1.5	20
4075	Zebra Optimization Algorithm: A New Bio-Inspired Optimization Algorithm for Solving Optimization Algorithm. <i>IEEE Access</i> , 2022, 10, 49445-49473.	2.6	48
4076	An Improved Crow Search Algorithm with Grey Wolf Optimizer for High-Dimensional Optimization Problems. <i>Communications in Computer and Information Science</i> , 2022, , 51-64.	0.4	1
4077	Dove Swarm Optimization Algorithm. <i>IEEE Access</i> , 2022, 10, 46690-46696.	2.6	11

#	ARTICLE	IF	CITATIONS
4078	HFMOEA: a hybrid framework for multi-objective feature selection. Journal of Computational Design and Engineering, 2022, 9, 949-965.	1.5	6
4079	A Study on Transfer Functions of Binary Particle Swarm Optimization for Energy-Efficient VM Placement. International Journal of Swarm Intelligence Research, 2022, 13, 1-27.	0.5	0
4080	Humanoid Robot Path Planning Using Memory-Based Gravity Search Algorithm and Enhanced Differential Evolution Approach in a Complex Environment. SSRN Electronic Journal, 0, , .	0.4	0
4082	Modified Remora Optimization Algorithm for Global Optimization and Multilevel Thresholding Image Segmentation. Mathematics, 2022, 10, 1014.	1.1	40
4083	Optimal solution of PM synchronous motor obtained by gravitational search algorithm. International Journal of Applied Electromagnetics and Mechanics, 2022, , 1-19.	0.3	1
4084	Chaotic Fruit Fly Algorithm for Solving Engineering Design Problems. Complexity, 2022, 2022, 1-19.	0.9	5
4085	Cryogenic-Energy-Storage-Based Optimized Green Growth of an Integrated and Sustainable Energy System. Sustainability, 2022, 14, 5301.	1.6	7
4086	An improved binary sparrow search algorithm for feature selection in data classification. Neural Computing and Applications, 2022, 34, 15705-15752.	3.2	21
4087	Modified normative fish swarm algorithm for optimizing power extraction in photovoltaic systems. Evolutionary Intelligence, 0, , 1.	2.3	2
4088	Binary Artificial Electric Field Algorithm. Evolutionary Intelligence, 2023, 16, 1155-1183.	2.3	6
4089	Modified Harris Hawks Optimization Algorithm with Exploration Factor and Random Walk Strategy. Computational Intelligence and Neuroscience, 2022, 2022, 1-23.	1.1	5
4090	Improved Sparrow Search Algorithm with the Extreme Learning Machine and Its Application for Prediction. Neural Processing Letters, 2022, 54, 4189-4209.	2.0	7
4091	A novel hybrid algorithm based on rat swarm optimization and pattern search for parameter extraction of solar photovoltaic models. Energy Science and Engineering, 2022, 10, 2689-2713.	1.9	26
4092	Enhanced Salp Swarm Algorithm for Multimodal Optimization and Fuzzy Based Grid Frequency Controller Design. Energies, 2022, 15, 3210.	1.6	7
4093	Boosted Harris Hawks gravitational force algorithm for global optimization and industrial engineering problems. Journal of Intelligent Manufacturing, 2023, 34, 2693-2728.	4.4	6
4094	Stability Enhancement of Single Machine Infinite Bus System with UPFC using Bat Algorithm. , 2022, , .		0
4095	FOX: a FOX-inspired optimization algorithm. Applied Intelligence, 2023, 53, 1030-1050.	3.3	26
4096	Salp swarm algorithm for solving optimal power flow problem with thyristor-controlled series capacitor. Journal of Electronic Science and Technology, 2022, 20, 100156.	2.0	12

#	ARTICLE	IF	CITATIONS
4097	A Chaos-Infused Moth-Flame Optimizer. Arabian Journal for Science and Engineering, 2022, 47, 10769-10809.	1.7	3
4098	A multi-strategy random weighted gray wolf optimizer-based multi-layer perceptron model for short-term wind speed forecasting. Neural Computing and Applications, 2022, 34, 14627-14657.	3.2	11
4099	Metaheuristic algorithms for PID controller parameters tuning: review, approaches and open problems. Heliyon, 2022, 8, e09399.	1.4	96
4100	GENEmops: Supervised feature selection from high dimensional biomedical dataset. Applied Soft Computing Journal, 2022, 123, 108963.	4.1	5
4101	Circle Search Algorithm: A Geometry-Based Metaheuristic Optimization Algorithm. Mathematics, 2022, 10, 1626.	1.1	33
4102	Bio-Inspired Hybrid Optimization Algorithms for Energy Efficient Wireless Sensor Networks: A Comprehensive Review. Electronics (Switzerland), 2022, 11, 1545.	1.8	8
4103	Whale optimization algorithm based on hybrid adaptive strategy. , 2022, , .		1
4104	A Curve Approximation Approach Using Bio-inspired Polar Coordinate Bald Eagle Search Algorithm. International Journal of Computational Intelligence Systems, 2022, 15, 1.	1.6	7
4105	An enhanced honey badger algorithm based on Lévy flight and refraction opposition-based learning for engineering design problems. Journal of Intelligent and Fuzzy Systems, 2022, 43, 4517-4540.	0.8	12
4106	Quadratic interpolation boosted black widow spider-inspired optimization algorithm with wavelet mutation. Mathematics and Computers in Simulation, 2022, 200, 428-467.	2.4	18
4107	A Comprehensive Survey on Metaheuristic Algorithm for Feature Selection Techniques. Materials Today: Proceedings, 2022, 64, 435-441.	0.9	11
4108	A Hybrid Arithmetic Optimization and Golden Sine Algorithm for Solving Industrial Engineering Design Problems. Mathematics, 2022, 10, 1567.	1.1	22
4109	Optimization of hydropower energy generation by 14 robust evolutionary algorithms. Scientific Reports, 2022, 12, 7739.	1.6	6
4110	Two, Four, and Five Parameters Estimation based Modelling of Si Cell, Mono-crystalline and Poly-crystalline PV Modules. Silicon, 2022, 14, 12191-12202.	1.8	2
4111	Alternated superior chaotic variants of gravitational search algorithm for optimization problems. Chaos, Solitons and Fractals, 2022, 159, 112152.	2.5	6
4112	Optimization of an auto drum fashioned brake using the elite opposition-based learning and chaotic k-best gravitational search strategy based grey wolf optimizer algorithm. Applied Soft Computing Journal, 2022, 123, 108947.	4.1	67
4113	A community detection approach for the resource leveling problem in a multi-project scheduling environment. Computers and Industrial Engineering, 2022, 169, 108202.	3.4	8
4114	A comprehensive survey on recent metaheuristics for feature selection. Neurocomputing, 2022, 494, 269-296.	3.5	119

#	ARTICLE	IF	CITATIONS
4115	Determining launching construction parameters of superlong superwide bridges: A multiobjective optimization method using machine learning techniques. <i>Structures</i> , 2022, 41, 15-28.	1.7	1
4116	Random search with adaptive boundaries algorithm for obtaining better initial solutions. <i>Advances in Engineering Software</i> , 2022, 169, 103141.	1.8	4
4117	Lens-imaging learning Harris hawks optimizer for global optimization and its application to feature selection. <i>Expert Systems With Applications</i> , 2022, 202, 117255.	4.4	20
4118	Novel optimized crow search algorithm for feature selection. <i>Expert Systems With Applications</i> , 2022, 204, 117486.	4.4	17
4119	A new optimization algorithm based on mimicking the voting process for leader selection. <i>PeerJ Computer Science</i> , 0, 8, e976.	2.7	29
4120	A Whale Optimization Algorithm with Convergence and Exploitability Enhancement and Its Application. <i>Mathematical Problems in Engineering</i> , 2022, 2022, 1-19.	0.6	1
4121	Towards Metaheuristic Scheduling Techniques in Cloud and Fog: An Extensive Taxonomic Review. <i>ACM Computing Surveys</i> , 2023, 55, 1-43.	16.1	27
4122	Enhanced Remora Optimization Algorithm for Solving Constrained Engineering Optimization Problems. <i>Mathematics</i> , 2022, 10, 1696.	1.1	45
4123	A Comparative Analysis of Hybrid Computational Models Constructed with Swarm Intelligence Algorithms for Estimating Soil Compression Index. <i>Archives of Computational Methods in Engineering</i> , 2022, 29, 4735-4773.	6.0	12
4124	An efficient Planet Optimization Algorithm for solving engineering problems. <i>Scientific Reports</i> , 2022, 12, 8362.	1.6	34
4125	CSCAHHO: Chaotic hybridization algorithm of the Sine Cosine with Harris Hawk optimization algorithms for solving global optimization problems. <i>PLoS ONE</i> , 2022, 17, e0263387.	1.1	3
4126	Velocity clamping-assisted adaptive salp swarm algorithm: balance analysis and case studies. <i>Mathematical Biosciences and Engineering</i> , 2022, 19, 7756-7804.	1.0	13
4127	Modified BBO-Based PV Integrated Reduced Component Multilevel Inverter for Mitigating THD. <i>Lecture Notes in Electrical Engineering</i> , 2022, , 15-29.	0.3	1
4129	Parameter optimization of shared electric vehicle dispatching model using discrete Harris hawks optimization. <i>Mathematical Biosciences and Engineering</i> , 2022, 19, 7284-7313.	1.0	2
4130	An intelligent metaphor-free spatial information sampling algorithm for balancing exploitation and exploration. <i>Knowledge-Based Systems</i> , 2022, 250, 109081.	4.0	23
4131	A Multi-Strategy Improved Sparrow Search Algorithm for Solving the Node Localization Problem in Heterogeneous Wireless Sensor Networks. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 5080.	1.3	9
4132	Swarm-Intelligence Optimization Method for Dynamic Optimization Problem. <i>Mathematics</i> , 2022, 10, 1803.	1.1	8
4133	Prediction of Total Nitrogen and Phosphorus in Surface Water by Deep Learning Methods Based on Multi-Scale Feature Extraction. <i>Water (Switzerland)</i> , 2022, 14, 1643.	1.2	9

#	ARTICLE	IF	CITATIONS
4134	An improved artificial electric field algorithm and its application in neural network optimization. Computers and Electrical Engineering, 2022, 101, 108111.	3.0	9
4135	Review of finite element model updating methods for structural applications. Structures, 2022, 41, 684-723.	1.7	60
4136	Multi-swarm improved moth-flame optimization algorithm with chaotic grouping and Gaussian mutation for solving engineering optimization problems. Expert Systems With Applications, 2022, 204, 117562.	4.4	13
4137	An Intelligent Cpsogsa-Based Mixed [[Equation]] Robust Controller for the Multi-Hydro-Turbine Governing System with Sharing Common Penstock. SSRN Electronic Journal, 0, , .	0.4	1
4138	Damage identification of thin plates using multi-stage PSO-GSA and incomplete modal data. , 2022, 30, 397-439.		1
4139	Parameter Tuning of PID Controller Based on Arithmetic Optimization Algorithm in IOT Systems. Studies in Computational Intelligence, 2022, , 399-417.	0.7	3
4140	A Novel Hybrid Algorithm Based on Lion Swarm Optimization and Differential Evolution Algorithm. SSRN Electronic Journal, 0, , .	0.4	0
4141	Gradient-Based Optimizer for Structural Optimization Problems. Studies in Computational Intelligence, 2022, , 461-480.	0.7	2
4142	An Antigravity-Based Fuzzy Gravitational Search Algorithm for Economic Dispatch Problems. SSRN Electronic Journal, 0, , .	0.4	0
4143	GSAGA: A hybrid algorithm for task scheduling in cloud infrastructure. Journal of Supercomputing, 2022, 78, 17423-17449.	2.4	18
4144	Design of Aquila Optimization Heuristic for Identification of Control Autoregressive Systems. Mathematics, 2022, 10, 1749.	1.1	20
4145	A Review of the Use of Quasi-random Number Generators to Initialize the Population in Meta-heuristic Algorithms. Archives of Computational Methods in Engineering, 2022, 29, 5149-5184.	6.0	3
4146	A Novel Binary Hybrid PSO-EO Algorithm for Cryptanalysis of Internal State of RC4 Cipher. Sensors, 2022, 22, 3844.	2.1	4
4147	Improved reptile search algorithm with novel mean transition mechanism for constrained industrial engineering problems. Neural Computing and Applications, 2022, 34, 17257-17277.	3.2	12
4148	A novel quantum-behaved binary firefly algorithm with gravitational search algorithm to optimize the features for human activity recognition. International Journal of Modern Physics C, 2022, 33, .	0.8	2
4149	Pricing strategies and advance payment-based inventory model with partially backlogged shortages under interval uncertainty. International Journal of Systems Science: Operations and Logistics, 2023, 10, .	2.0	3
4150	A hybrid Genetic-Grey Wolf Optimization algorithm for optimizing Takagi-Sugeno-Kang fuzzy systems. Neural Computing and Applications, 0, , .	3.2	1
4151	Optimal Sizing of Hybrid Energy System Using Random Exploratory Search-Centred Harris Hawks Optimizer with Improved Exploitation Capability. Mathematical Problems in Engineering, 2022, 2022, 1-22.	0.6	2

#	ARTICLE	IF	CITATIONS
4152	A hybrid teachingâ€“learning slime mould algorithm for global optimization and reliability-based design optimization problems. <i>Neural Computing and Applications</i> , 2022, 34, 16617-16642.	3.2	10
4153	GOZDE: A novel metaheuristic algorithm for global optimization. <i>Future Generation Computer Systems</i> , 2022, 136, 128-152.	4.9	10
4154	Source parameters estimation from gravity data using Bat algorithm with application to geothermal and volcanic activity studies. <i>International Journal of Environmental Science and Technology</i> , 0, , .	1.8	7
4155	Nature Inspired Algorithms for Solving Multiple Sequence Alignment Problem: A Review. <i>Archives of Computational Methods in Engineering</i> , 2022, 29, 5237-5258.	6.0	2
4156	Alpine skiing optimization: A new bio-inspired optimization algorithm. <i>Advances in Engineering Software</i> , 2022, 170, 103158.	1.8	61
4158	An Improved Slime Mould Algorithm with Quasi Reflection-based Learning for Global Optimization Problems. , 2021, , .		1
4159	Optimal Control for Unmanned Systems With One-Way Broadcast Communication. <i>IEEE Transactions on Vehicular Technology</i> , 2022, 71, 9297-9308.	3.9	1
4161	Gravitational Search Optimized Light Gradient Boosting Machine for Identification of Malicious Access in IoT Network. <i>Lecture Notes in Networks and Systems</i> , 2022, , 570-579.	0.5	1
4162	Improved Control System Based on PSO and ANN for Social Distancing for Patients With COVID-19. <i>IEEE Access</i> , 2022, 10, 63797-63811.	2.6	1
4163	Fitness Distance Balance Based LSHADE Algorithm for Energy Hub Economic Dispatch Problem. <i>IEEE Access</i> , 2022, 10, 66770-66796.	2.6	4
4164	Peak Ground Acceleration Models Predictions Utilizing Two Metaheuristic Optimization Techniques. <i>Latin American Journal of Solids and Structures</i> , 2022, 19, .	0.6	7
4165	Comparison of optimization algorithms based on swarm intelligence applied to convolutional neural networks for face recognition. <i>International Journal of Hybrid Intelligent Systems</i> , 2022, , 1-11.	0.9	0
4166	Hybridization of Manta-Ray Foraging Optimization Algorithm with Pseudo Parameter-Based Genetic Algorithm for Dealing Optimization Problems and Unit Commitment Problem. <i>Mathematics</i> , 2022, 10, 2179.	1.1	7
4167	Multi-Tone Harmonic Balance Optimization for High-Power Amplifiers through Coarse and Fine Models Based on X-Parameters. <i>Sensors</i> , 2022, 22, 4305.	2.1	1
4168	A Hybrid Optimization Algorithm for Water Volume Adjustment Problem in District Heating Systems. <i>International Journal of Computational Intelligence Systems</i> , 2022, 15, .	1.6	0
4169	Modeling & implementation of DRLA based partially shaded solar system integration with 3-ï• conventional grid using constant current controller. <i>Heliyon</i> , 2022, 8, e09669.	1.4	1
4170	A Two-Stage Hybrid Extreme Learning Model for Short-Term Traffic Flow Forecasting. <i>Mathematics</i> , 2022, 10, 2087.	1.1	9
4171	Global chaotic bat algorithm for feature selection. <i>Journal of Supercomputing</i> , 2022, 78, 18754-18776.	2.4	3

#	ARTICLE	IF	CITATIONS
4172	Tree optimization algorithm (TOA): a novel metaheuristic approach for solving mathematical test functions and engineering problems. <i>Evolutionary Intelligence</i> , 2023, 16, 1325-1338.	2.3	3
4173	Development and Applications of Augmented Whale Optimization Algorithm. <i>Mathematics</i> , 2022, 10, 2076.	1.1	4
4174	A Stigmergy-Based Differential Evolution. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 6093.	1.3	0
4175	A new index-based hyper-heuristic algorithm for global optimisation problems. <i>IET Software</i> , 0, , .	1.5	0
4176	Recent Advances in Harris Hawks Optimization: A Comparative Study and Applications. <i>Electronics (Switzerland)</i> , 2022, 11, 1919.	1.8	37
4177	A modified variant of coyote optimization algorithm for solving ordinary differential equations and oscillatory mechanical problems. <i>Simulation</i> , 2022, 98, 1161-1178.	1.1	2
4178	A new human-based metaheuristic algorithm for solving optimization problems on the base of simulation of driving training process. <i>Scientific Reports</i> , 2022, 12, .	1.6	64
4179	Joint optimization of inspection and maintenance strategy for complex multi-component systems using a quantum-inspired genetic algorithm. <i>Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability</i> , 0, , 1748006X2211029.	0.6	0
4180	An alternative computational optimization technique to solve linear and nonlinear Diophantine equations using discrete WQPSO algorithm. <i>Soft Computing</i> , 2022, 26, 12531-12544.	2.1	2
4181	Pendulum Search Algorithm: An Optimization Algorithm Based on Simple Harmonic Motion and Its Application for a Vaccine Distribution Problem. <i>Algorithms</i> , 2022, 15, 214.	1.2	3
4182	S-GWO-FH: sparsity-based grey wolf optimization algorithm for face hallucination. <i>Soft Computing</i> , 2022, 26, 9323-9338.	2.1	7
4183	Fire Hawk Optimizer: a novel metaheuristic algorithm. <i>Artificial Intelligence Review</i> , 2023, 56, 287-363.	9.7	85
4184	Multitask Learning Based on Improved Uncertainty Weighted Loss for Multi-Parameter Meteorological Data Prediction. <i>Atmosphere</i> , 2022, 13, 989.	1.0	0
4185	Fractional-Order Boosted Jellyfish Search Optimizer with Gaussian Mutation for Income Forecast of Rural Resident. <i>Computational Intelligence and Neuroscience</i> , 2022, 2022, 1-38.	1.1	2
4186	Magnetorheological damper parameter identification using a novel metaheuristic algorithm. <i>Mathematical Methods in the Applied Sciences</i> , 0, , .	1.2	0
4187	Multi-strategy hybrid heuristic algorithm for single container weakly heterogeneous loading problem. <i>Computers and Industrial Engineering</i> , 2022, 170, 108302.	3.4	5
4188	Optimal placement and sizing of FACTS devices for optimal power flow using metaheuristic optimizers. <i>Results in Control and Optimization</i> , 2022, 8, 100145.	1.3	16
4189	Beluga whale optimization: A novel nature-inspired metaheuristic algorithm. <i>Knowledge-Based Systems</i> , 2022, 251, 109215.	4.0	155

#	ARTICLE	IF	CITATIONS
4190	A new metaheuristic optimization based on K-means clustering algorithm and its application to structural damage identification. Knowledge-Based Systems, 2022, 251, 109189.	4.0	44
4191	LMRAOA: An improved arithmetic optimization algorithm with multi-leader and high-speed jumping based on opposition-based learning solving engineering and numerical problems. AEJ - Alexandria Engineering Journal, 2022, 61, 12367-12403.	3.4	16
4192	Gannet optimization algorithm : A new metaheuristic algorithm for solving engineering optimization problems. Mathematics and Computers in Simulation, 2022, 202, 343-373.	2.4	107
4193	Differential evolution with modified initialization scheme using chaotic oppositional based learning strategy. AEJ - Alexandria Engineering Journal, 2022, 61, 11835-11858.	3.4	20
4194	Swarm-based intelligent strategies for charging plug-in hybrid electric vehicles. , 2022, , 347-374.		0
4195	Convergence Analysis of ABC Algorithm Based on Difference Model. SSRN Electronic Journal, 0, , .	0.4	0
4196	A Bio-Inspired Neural Network Approach to Robot Navigation and Mapping with Nature-Inspired Algorithms. Lecture Notes in Computer Science, 2022, , 3-16.	1.0	3
4197	Dynamic Grey Wolf Optimization Algorithm Based on Quasi-Opposition Learning. Smart Innovation, Systems and Technologies, 2022, , 11-22.	0.5	2
4198	A Novel Enhanced Arithmetic Optimization Algorithm for Global Optimization. IEEE Access, 2022, 10, 75040-75062.	2.6	7
4199	Five Phases Algorithm for Global Optimization. Smart Innovation, Systems and Technologies, 2022, , 81-97.	0.5	1
4200	Non-Iterative Data-Driven Tuning of Model-Free Control Based on an Ultra-Local Model. IEEE Access, 2022, 10, 72773-72784.	2.6	9
4204	Simulation Experiments of Different Metaheuristics Algorithms using Benchmark Functions: A Performance Study. , 2022, , .		3
4205	Forecasting of Automobile Sales Based on Support Vector Regression Optimized by the Grey Wolf Optimizer Algorithm. Mathematics, 2022, 10, 2234.	1.1	11
4206	Multi-Strategy Improved Slime Mould Algorithm and its Application in Optimal Operation of Cascade Reservoirs. Water Resources Management, 2022, 36, 3029-3048.	1.9	5
4207	Chaos embedded opposition based learning for gravitational search algorithm. Applied Intelligence, 0, , .	3.3	3
4208	A Grey Wolf Optimization Algorithm for Integrating Process Planning and Scheduling Problem. , 2022, , .		1
4209	Application of multi-SVM classifier and hybrid GSAPSO algorithm for fault diagnosis of electrical machine drive system. ISA Transactions, 2023, 133, 529-538.	3.1	15
4210	An Improved Pity Beetle Algorithm for Solving Constrained Engineering Design Problems. Mathematics, 2022, 10, 2211.	1.1	1

#	ARTICLE	IF	CITATIONS
4211	An optimized deep learning architecture for breast cancer diagnosis based on improved marine predators algorithm. <i>Neural Computing and Applications</i> , 2022, 34, 18015-18033.	3.2	43
4212	Health Performance Interval Prediction of Pumped Storage Unit Based on Multi-Objective Optimization. , 2022, , .		0
4213	Different Optimization Techniques For Solving the Coordination problem of DOCRs. , 2022, , .		4
4214	Porcellio scaber Algorithm with t-Distributed Elite Mutation for Global Optimization. <i>Scientific Programming</i> , 2022, 2022, 1-17.	0.5	0
4215	The cheetah optimizer: a nature-inspired metaheuristic algorithm for large-scale optimization problems. <i>Scientific Reports</i> , 2022, 12, .	1.6	58
4216	Optimized Takagi-Sugeno Fuzzy Mixed H ₂ /H _∞ Robust Controller Design Based on CPSOGSA Optimization Algorithm for Hydraulic Turbine Governing System. <i>Energies</i> , 2022, 15, 4771.	1.6	3
4217	Harris Hawks Optimization Algorithm: Variants and Applications. <i>Archives of Computational Methods in Engineering</i> , 2022, 29, 5579-5603.	6.0	23
4218	A hybrid engineering algorithm of the seeker algorithm and particle swarm optimization. <i>Materialprüfung/Materials Testing</i> , 2022, 64, 1051-1089.	0.8	5
4219	Differential Evolution-Boosted Sine Cosine Golden Eagle Optimizer with Lévy Flight. <i>Journal of Bionic Engineering</i> , 2022, 19, 1850-1885.	2.7	15
4220	An improved black widow optimization algorithm for surfaces conversion. <i>Applied Intelligence</i> , 2023, 53, 6629-6670.	3.3	4
4221	A comprehensive survey on the ant lion optimiser, variants and applications. <i>Journal of Experimental and Theoretical Artificial Intelligence</i> , 0, , 1-52.	1.8	1
4222	An Improved Reptile Search Algorithm Based on Lévy Flight and Interactive Crossover Strategy to Engineering Application. <i>Mathematics</i> , 2022, 10, 2329.	1.1	12
4223	Prairie Dog Optimization Algorithm. <i>Neural Computing and Applications</i> , 2022, 34, 20017-20065.	3.2	212
4224	Big Data Analysis Model for Vocational Education Employment Rate Prediction. <i>Scientific Programming</i> , 2022, 2022, 1-9.	0.5	1
4225	A data-driven self-adaptive parameter tuning framework for composite automobile part optimization design. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 0, , 095440702211104.	1.1	0
4226	Fault Diagnosis Method of Circuit Breaker Based on <sc>CEEMDAN</sc> and <sc>PSO-GSA-SVM</sc>. <i>IEEJ Transactions on Electrical and Electronic Engineering</i> , 2022, 17, 1598-1605.	0.8	7
4227	A cluster based charging schedule for wireless rechargeable sensor networks using gravitational search algorithm. <i>Wireless Networks</i> , 2022, 28, 3323-3336.	2.0	8
4228	GSA-Fuzz: Optimize Seed Mutation with Gravitational Search Algorithm. <i>Security and Communication Networks</i> , 2022, 2022, 1-17.	1.0	2

#	ARTICLE	IF	CITATIONS
4229	An innovative hybrid algorithm for solving combined economic and emission dispatch problems. <i>Soft Computing</i> , 2022, 26, 12635-12666.	2.1	1
4230	A Hybrid Moth Flame Optimization Algorithm for Global Optimization. <i>Journal of Bionic Engineering</i> , 2022, 19, 1522-1543.	2.7	31
4231	Disassembly sequence planning and application using simplified discrete gravitational search algorithm for equipment maintenance in hydropower station. <i>Expert Systems With Applications</i> , 2022, 208, 118046.	4.4	9
4232	Multi-strategies Boosted Mutative Crow Search Algorithm for Global Tasks: Cases of Continuous and Discrete Optimization. <i>Journal of Bionic Engineering</i> , 2022, 19, 1830-1849.	2.7	17
4233	Multi-objective scheduling of priority-based rescue vehicles to extinguish forest fires using a multi-objective discrete gravitational search algorithm. <i>Information Sciences</i> , 2022, 608, 578-596.	4.0	53
4234	Design of a fuzzy-based proportional integral derivative controller with optimal membership function scaling for respiratory ventilation system. <i>Biomedical Signal Processing and Control</i> , 2022, 78, 103938.	3.5	3
4235	Energy efficient cluster based routing for wireless sensor networks using moth levy adopted artificial electric field algorithm and customized grey wolf optimization algorithm. <i>Microprocessors and Microsystems</i> , 2022, 93, 104593.	1.8	14
4236	A heterogeneous couplings and persuasive user/item information model for Next Basket recommendation. <i>Engineering Applications of Artificial Intelligence</i> , 2022, 114, 105132.	4.3	4
4237	Multi-population-based adaptive sine cosine algorithm with modified mutualism strategy for global optimization. <i>Knowledge-Based Systems</i> , 2022, 251, 109326.	4.0	25
4238	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.	4.3	206
4239	Self-adaptive classification learning hybrid JAYA and Rao-1 algorithm for large-scale numerical and engineering problems. <i>Engineering Applications of Artificial Intelligence</i> , 2022, 114, 105069.	4.3	6
4240	A heuristic whale optimization algorithm with niching strategy for global multi-dimensional engineering optimization. <i>Computers and Industrial Engineering</i> , 2022, 171, 108361.	3.4	27
4241	Normalized Mutual Information-based equilibrium optimizer with chaotic maps for wrapper-filter feature selection. <i>Expert Systems With Applications</i> , 2022, 207, 118107.	4.4	12
4242	An adaptive neighborhood-based search enhanced artificial ecosystem optimizer for UCAV path planning. <i>Expert Systems With Applications</i> , 2022, 208, 118047.	4.4	8
4243	A Fuzzy Variant of the Multi-verse Optimizer for Optimal Design of Fuzzy Controllers. <i>Lecture Notes in Networks and Systems</i> , 2022, , 537-545.	0.5	3
4245	Enhanced Gravitational Search Optimization with Hybrid Deep Learning Model for COVID-19 Diagnosis on Epidemiology Data. <i>Healthcare (Switzerland)</i> , 2022, 10, 1339.	1.0	2
4246	An improved atom search optimization for optimization tasks. <i>Multimedia Tools and Applications</i> , 0, , .	2.6	1
4247	Chaotic Wind Driven Optimization with Fitness Distance Balance Strategy. <i>International Journal of Computational Intelligence Systems</i> , 2022, 15, .	1.6	7

#	ARTICLE	IF	CITATIONS
4248	Fitness-distance balance based artificial ecosystem optimisation to solve transient stability constrained optimal power flow problem. <i>Journal of Experimental and Theoretical Artificial Intelligence</i> , 0, , 1-40.	1.8	13
4249	Circulatory System Based Optimization (CSBO): an expert multilevel biologically inspired meta-heuristic algorithm. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2022, 16, 1483-1525.	1.5	10
4250	The fusionâ€fission optimization (FuFiO) algorithm. <i>Scientific Reports</i> , 2022, 12, .	1.6	4
4251	An Improved Aquila Optimizer Based on Search Control Factor and Mutations. <i>Processes</i> , 2022, 10, 1451.	1.3	9
4252	A Novel Ensemble of Arithmetic Optimization Algorithm and Harris Hawks Optimization for Solving Industrial Engineering Optimization Problems. <i>Machines</i> , 2022, 10, 602.	1.2	3
4253	Enhancement of PV performance by using hybrid TLBO-EO optimization. <i>Ain Shams Engineering Journal</i> , 2023, 14, 101892.	3.5	6
4254	LSMA-TLBO: A hybrid SMA-TLBO algorithm with Ã©vy flight based mutation for numerical optimization and engineering design problems. <i>Advances in Engineering Software</i> , 2022, 172, 103185.	1.8	22
4255	Optimal variable estimation of a Li-ion battery model by fractional calculus and bio-inspired algorithms. <i>Journal of Energy Storage</i> , 2022, 54, 105323.	3.9	7
4256	Fennec Fox Optimization: A New Nature-Inspired Optimization Algorithm. <i>IEEE Access</i> , 2022, 10, 84417-84443.	2.6	9
4257	FIR Band pass and Band stop Filters Design via HHO Algorithm. , 2022, , .		1
4258	Extreme learning machine tuning by original sine cosine algorithm. , 2022, , .		6
4259	Solving Directional Overcurrent Relays Coordination problem using Different Multi-Objective Optimization algorithms with Fuzzy Logic Decision-Making Tool. , 2022, , .		1
4260	Hierarchical Stochastic Optimal Scheduling of Electric Thermal Hydrogen Integrated Energy System Considering Electric Vehicles. <i>Energies</i> , 2022, 15, 5509.	1.6	5
4261	Triangular mutation-based manta-ray foraging optimization and orthogonal learning for global optimization and engineering problems. <i>Applied Intelligence</i> , 2023, 53, 7788-7817.	3.3	10
4262	A Hybrid SVR-Based Prediction Model for the Interfacial Bond Strength of Externally Bonded FRP Laminates on Grooves with Concrete Prisms. <i>Polymers</i> , 2022, 14, 3097.	2.0	6
4263	Earth slope stability evaluation subjected to earthquake loading using chaotic sperm swarm optimization. <i>Arabian Journal of Geosciences</i> , 2022, 15, .	0.6	5
4264	Hermit crab shell exchange algorithm: a new metaheuristic. <i>Evolutionary Intelligence</i> , 0, , .	2.3	4
4265	Special Relativity Search: A novel metaheuristic method based on special relativity physics. <i>Knowledge-Based Systems</i> , 2022, 257, 109484.	4.0	30

#	ARTICLE	IF	CITATIONS
4266	CIOA: Circle-Inspired Optimization Algorithm, an algorithm for engineering optimization. <i>SoftwareX</i> , 2022, 19, 101192.	1.2	12
4267	Illegal Intrusion Detection for In-Vehicle CAN Bus Based on Immunology Principle. <i>Symmetry</i> , 2022, 14, 1532.	1.1	1
4268	Ridge Regression Based on Koropov Sequence Initialized Archimedes Optimization Algorithm. , 2022, , .		1
4269	Modelling Compression Strength of Waste PET and SCM Blended Cementitious Grout Using Hybrid of LSSVM Models. <i>Materials</i> , 2022, 15, 5242.	1.3	6
4270	Individual disturbance and neighborhood mutation search enhanced whale optimization: performance design for engineering problems. <i>Journal of Computational Design and Engineering</i> , 2022, 9, 1817-1851.	1.5	8
4271	An Effective Chronic Disease Prediction using Multi-Objective Firefly Optimisation Random Forest Algorithm. <i>IETE Journal of Research</i> , 0, , 1-15.	1.8	0
4272	A mixed sine cosine butterfly optimization algorithm for global optimization and its application. <i>Cluster Computing</i> , 2022, 25, 4573-4600.	3.5	15
4273	COVIDOA: a novel evolutionary optimization algorithm based on coronavirus disease replication lifecycle. <i>Neural Computing and Applications</i> , 2022, 34, 22465-22492.	3.2	23
4274	Hybrid teachingâ€“learning-based optimization for solving engineering and mathematical problems. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2022, 44, .	0.8	10
4275	Emperor penguin optimizer: A comprehensive review based on state-of-the-art meta-heuristic algorithms. <i>AEJ - Alexandria Engineering Journal</i> , 2023, 63, 487-526.	3.4	29
4276	An improved moth flame optimization algorithm based on modified dynamic opposite learning strategy. <i>Artificial Intelligence Review</i> , 2023, 56, 2811-2869.	9.7	23
4277	Chinaâ€™s carbon dioxide emission forecast based on improved marine predator algorithm and multi-kernel support vector regression. <i>Environmental Science and Pollution Research</i> , 2023, 30, 5730-5748.	2.7	7
4278	Multi-strategy boosted marine predators algorithm for optimizing approximate developable surface. <i>Knowledge-Based Systems</i> , 2022, 254, 109615.	4.0	11
4279	Recent advances of bat-inspired algorithm, its versions and applications. <i>Neural Computing and Applications</i> , 2022, 34, 16387-16422.	3.2	10
4280	Adolescent Identity Search Algorithm Based on Fast Search and Balance Optimization for Numerical and Engineering Design Problems. <i>Computational Intelligence and Neuroscience</i> , 2022, 2022, 1-25.	1.1	0
4281	Sighted particles: improving swarm optimization by making particles aware of their surroundings. <i>Evolutionary Intelligence</i> , 0, , .	2.3	0
4282	A Hybrid Approach of Gravitational Search Algorithm and Ant Miner Plus for Fingerprint Recognition. <i>International Journal of Modern Physics C</i> , 0, , .	0.8	0
4283	Single candidate optimizer: a novel optimization algorithm. <i>Evolutionary Intelligence</i> , 0, , .	2.3	11

#	ARTICLE	IF	CITATIONS
4284	A balanced butterfly optimization algorithm for numerical optimization and feature selection. <i>Soft Computing</i> , 2022, 26, 11505-11523.	2.1	2
4285	Solving Systems of Nonlinear Equations Using an Innovative Hybrid Algorithm. <i>Iranian Journal of Science and Technology - Transactions of Electrical Engineering</i> , 2022, 46, 1005-1027.	1.5	2
4286	Laplace crossover and random replacement strategy boosted Harris Hawks optimization: performance optimization and analysis. <i>Journal of Computational Design and Engineering</i> , 0, , .	1.5	7
4287	Combining a Population-Based Approach with Multiple Linear Models for Continuous and Discrete Optimization Problems. <i>Mathematics</i> , 2022, 10, 2920.	1.1	2
4288	Intelligent Optimization of Parameters for Tens of MA-Class Z -Pinch Accelerators. <i>Laser and Particle Beams</i> , 2022, 2022, .	0.4	1
4289	An Improved Arithmetic Optimization Algorithm and Its Application to Determine the Parameters of Support Vector Machine. <i>Mathematics</i> , 2022, 10, 2875.	1.1	9
4290	Quantum-behaved particle swarm optimization based on solitons. <i>Scientific Reports</i> , 2022, 12, .	1.6	7
4291	Performance of a Novel Enhanced Sparrow Search Algorithm for Engineering Design Process: Coverage Optimization in Wireless Sensor Network. <i>Processes</i> , 2022, 10, 1691.	1.3	5
4292	Comparative Analysis of the Optimized KNN, SVM, and Ensemble DT Models Using Bayesian Optimization for Predicting Pedestrian Fatalities: An Advance towards Realizing the Sustainable Safety of Pedestrians. <i>Sustainability</i> , 2022, 14, 10467.	1.6	11
4293	Real Estate Market-Based Optimization Algorithm (REMARK): a market-inspired metaheuristic optimization algorithm based on the law of supply and demand. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 0, , .	3.3	0
4294	A grey wolf optimizer-based chaotic gravitational search algorithm for global optimization. <i>Journal of Supercomputing</i> , 2023, 79, 2691-2739.	2.4	6
4295	LÃ©vy flight and chaos theory based gravitational search algorithm for multilayer perceptron training. <i>Evolving Systems</i> , 2023, 14, 365-392.	2.4	3
4296	Predicting population size and termination criteria in metaheuristics: A case study based on spotted hyena optimizer and crow search algorithm. <i>Applied Soft Computing Journal</i> , 2022, 128, 109513.	4.1	5
4297	MAB-OS: Multi-Armed Bandits Metaheuristic Optimizer Selection. <i>Applied Soft Computing Journal</i> , 2022, 128, 109452.	4.1	5
4298	Probabilistic slope stability analysis of Heavy-haul freight corridor using a hybrid machine learning paradigm. <i>Transportation Geotechnics</i> , 2022, 37, 100815.	2.0	26
4299	Structural damage identification in thin-shell structures using a new technique combining finite element model updating and improved Cuckoo search algorithm. <i>Advances in Engineering Software</i> , 2022, 173, 103206.	1.8	16
4300	(MF) $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si10.svg" display="inline" id="d1e3585">\rangle \langle \text{mml:msup} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:math} \rangle$ LS: Memetic framework with memory based fuzzy local search. <i>Expert Systems With Applications</i> , 2022, 209, 118293.	4.4	1
4301	A successful candidate strategy with Runge-Kutta optimization for multi-hydropower reservoir optimization. <i>Expert Systems With Applications</i> , 2022, 209, 118383.	4.4	13

#	ARTICLE	IF	CITATIONS
4302	Tool wear predicting based on weighted multi-kernel relevance vector machine and probabilistic kernel principal component analysis. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 122, 2625-2643.	1.5	4
4303	Feed-Forward Neural Networks Training with Hybrid Taguchi Vortex Search Algorithm for Transmission Line Fault Classification. <i>Mathematics</i> , 2022, 10, 3263.	1.1	1
4304	Boosting sparrow search algorithm for multi-strategy-assist engineering optimization problems. <i>AIP Advances</i> , 2022, 12, .	0.6	4
4305	Evolutionary mating algorithm. <i>Neural Computing and Applications</i> , 2023, 35, 487-516.	3.2	13
4306	Hierarchical Approaches to Solve Optimization Problems. <i>Academic Platform Journal of Engineering and Science</i> , 2022, 10, 124-139.	0.5	0
4307	Faulty processor identification for a multiprocessor system under the Malek model using an improved binary bat algorithm. <i>Journal of Supercomputing</i> , 2023, 79, 3791-3820.	2.4	1
4308	A new insight into metaheuristic optimization method using a hybrid of PSO, GSA, and GWO. <i>Structures</i> , 2022, 44, 1168-1189.	1.7	10
4309	An outward search to increase population diversity for optimization algorithms. <i>Applied Soft Computing Journal</i> , 2022, 129, 109572.	4.1	0
4310	WOASCALF: A new hybrid whale optimization algorithm based on sine cosine algorithm and levy flight to solve global optimization problems. <i>Advances in Engineering Software</i> , 2022, 173, 103272.	1.8	36
4311	Energy flexibility of space-heating or cooling in Spain based on Developed Wildebeest Herd Optimization algorithm. <i>Energy Reports</i> , 2022, 8, 10913-10922.	2.5	4
4312	A binary tree seed algorithm with selection-based local search mechanism for huge-sized optimization problems. <i>Applied Soft Computing Journal</i> , 2022, 129, 109590.	4.1	7
4313	An adaptive framework to select the coordinate systems for evolutionary algorithms. <i>Applied Soft Computing Journal</i> , 2022, 129, 109585.	4.1	2
4314	Modified Differential Evolution Algorithm for Solving Dynamic Optimization with Existence of Infeasible Environments. <i>Computers, Materials and Continua</i> , 2023, 74, 1-17.	1.5	1
4315	Skill Optimization Algorithm: A New Human-Based Metaheuristic Technique. <i>Computers, Materials and Continua</i> , 2023, 74, 179-202.	1.5	12
4316	Marine predator inspired naked mole-rat algorithm for global optimization. <i>Expert Systems With Applications</i> , 2023, 212, 118822.	4.4	11
4317	An opposition-based butterfly optimization algorithm with adaptive elite mutation in solving complex high-dimensional optimization problems. <i>Mathematics and Computers in Simulation</i> , 2023, 204, 498-528.	2.4	10
4318	Hybrid Particle Swarm Optimizationâ€“Gravitational Search Algorithm Based Detection of Graphene Defects With Electrical Impedance Tomography. <i>IEEE Access</i> , 2022, 10, 105744-105757.	2.6	5
4319	An Improved C-DEEPSO Algorithm for Optimal Active-Reactive Power Dispatch in Microgrids With Electric Vehicles. <i>IEEE Access</i> , 2022, 10, 94298-94311.	2.6	3

#	ARTICLE	IF	CITATIONS
4320	Enhanced Aquila optimizer algorithm for global optimization and constrained engineering problems. Mathematical Biosciences and Engineering, 2022, 19, 14173-14211.	1.0	29
4321	A Hybrid of Artificial Electric Field Algorithm and Differential Evolution for Continuous Optimization Problems. Lecture Notes on Data Engineering and Communications Technologies, 2022, , 507-520.	0.5	4
4322	Clouded Leopard Optimization: A New Nature-Inspired Optimization Algorithm. IEEE Access, 2022, 10, 102876-102906.	2.6	5
4323	Material Generation Algorithm Combined with Epsilon Constraint Handling Scheme for Engineering Optimization. Studies in Systems, Decision and Control, 2022, , 165-187.	0.8	0
4324	A Modified Whale Optimisation Algorithm to Solve Global Optimisation Problems. Lecture Notes on Data Engineering and Communications Technologies, 2022, , 465-477.	0.5	1
4325	A Novel Distributed Nature-Inspired Algorithm for Solving Optimization Problems. Studies in Computational Intelligence, 2022, , 107-119.	0.7	1
4326	Dynamic <i>In Vivo</i> Computation for Learning-Based Nanobiosensing in Time-Varying Biological Landscapes. IEEE Transactions on Evolutionary Computation, 2023, 27, 1100-1114.	7.5	1
4327	Improved African Vulture Optimization Algorithm Based on Quasi-Oppositional Differential Evolution Operator. IEEE Access, 2022, 10, 95197-95218.	2.6	14
4328	A Modified Equilibrium Optimizer Using Opposition-Based Learning and Teaching-Learning Strategy. IEEE Access, 2022, 10, 101408-101433.	2.6	4
4329	Parallel Batch Processing Machine Scheduling Under Two-Dimensional Bin-Packing Constraints. IEEE Transactions on Reliability, 2023, 72, 1265-1275.	3.5	2
4330	GSA Based FOPID Controller Tuning in NSOF Domain for a Class of Nonlinear Systems. Communications in Computer and Information Science, 2022, , 169-182.	0.4	0
4331	IHAOAVOA: An improved hybrid aquila optimizer and African vultures optimization algorithm for global optimization problems. Mathematical Biosciences and Engineering, 2022, 19, 10963-11017.	1.0	21
4332	Aspects on Image Edge Detection Based on Sensitive Swarm Intelligence. Lecture Notes in Computer Science, 2022, , 455-465.	1.0	0
4333	A Review of Fuzzy Metaheuristics for Optimal Design of Fuzzy Controllers in Mobile Robotics. Studies in Systems, Decision and Control, 2022, , 59-72.	0.8	0
4334	Chaotic Mapping Based Advanced Aquila Optimizer With Single Stage Evolutionary Algorithm. IEEE Access, 2022, 10, 89153-89169.	2.6	5
4335	Battle Royale Optimizer with a New Movement Strategy. Studies in Systems, Decision and Control, 2022, , 265-279.	0.8	1
4336	Senior Learning JAYA With Powell's Method and Incremental Population Strategy. IEEE Access, 2022, 10, 103765-103780.	2.6	0
4337	A New Optimization Method Based on the Lotka-Volterra System Equations. Studies in Computational Intelligence, 2022, , 317-332.	0.7	1

#	ARTICLE	IF	CITATIONS
4338	A Comprehensive Survey on the Process, Methods, Evaluation, and Challenges of Feature Selection. IEEE Access, 2022, 10, 99595-99632.	2.6	9
4339	Wireless charging tuning strategy for electric vehicles based on gravitational search algorithm. , 2022, , .		1
4340	Multi-objective optimization for multi-satellite scheduling task. Journal of Soft Computing Exploration, 2022, 3, 19-30.	0.4	3
4341	Productivity Improvement using Gravitational Search Algorithm: a Case of Film Roll Industry. , 2022, , .		0
4342	Introduction to optimization techniques for sizing and management of integrated power systems. , 2023, , 1-40.		0
4343	Crosshair Optimizer. , 2022, , .		0
4344	Dynamic In Vivo Computation: Nanobiosensing from a Dynamic Optimization Perspective. , 2022, , .		0
4345	A New Strategy for Identification of Coal Miners With Abnormal Physical Signs Based on EN-mRMR. Frontiers in Bioengineering and Biotechnology, 0, 10, .	2.0	0
4346	A survey on cloud computing scheduling algorithms. Multiagent and Grid Systems, 2022, 18, 119-148.	0.5	2
4347	White-Tailed Eagle Algorithm for Global Optimization and Low-Cost and Low-CO2 Emission Design of Retaining Structures. Sustainability, 2022, 14, 10673.	1.6	5
4348	Liver Tumour Classification Using Optimal Opposition Based Grey Wolf Optimization. International Journal of Pattern Recognition and Artificial Intelligence, 0, , .	0.7	1
4349	Obstacle Avoidance Algorithm of Handling Robot in Cultural Complex. , 2022, , .		0
4350	Increasing the Penetration of Electric Vehicles in Distribution Networks Using Optimal Charging/Discharging Control and Reactive Power Support in the Presence of Nonlinear Loads. International Transactions on Electrical Energy Systems, 2022, 2022, 1-22.	1.2	2
4351	CQFFA: A Chaotic Quasi-oppositional Farmland Fertility Algorithm for Solving Engineering Optimization Problems. Journal of Bionic Engineering, 2023, 20, 158-183.	2.7	28
4352	Multiclass feature selection with metaheuristic optimization algorithms: a review. Neural Computing and Applications, 2022, 34, 19751-19790.	3.2	44
4353	Multistrategy Harris Hawks Optimization Algorithm Using Chaotic Method, Cauchy Mutation, and Elite Individual Guidance. Discrete Dynamics in Nature and Society, 2022, 2022, 1-12.	0.5	1
4354	Probabilistic optimal management of active and reactive power in distribution networks using electric vehicles with harmonic compensation capability. IET Generation, Transmission and Distribution, 2022, 16, 4304-4320.	1.4	3
4355	Improved Spatial Information Sampling Algorithm. , 2022, , .		0

#	ARTICLE	IF	CITATIONS
4356	Genetically Optimized Pitch Angle Controller of a Wind Turbine with Fuzzy Logic Design Approach. <i>Energies</i> , 2022, 15, 6705.	1.6	2
4357	Hybrid Feature Selection of Breast Cancer Gene Expression Microarray Data Based on Metaheuristic Methods: A Comprehensive Review. <i>Symmetry</i> , 2022, 14, 1955.	1.1	6
4358	Egret Swarm Optimization Algorithm: An Evolutionary Computation Approach for Model Free Optimization. <i>Biomimetics</i> , 2022, 7, 144.	1.5	28
4359	Development of incremental average differential evolution algorithm for photovoltaic system identification. <i>Solar Energy</i> , 2022, 244, 242-254.	2.9	1
4361	An intensified sparrow search algorithm for solving optimization problems. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2023, 14, 9173-9189.	3.3	5
4362	Swarm intelligence algorithms for multiple unmanned aerial vehicles collaboration: a comprehensive review. <i>Artificial Intelligence Review</i> , 2023, 56, 4295-4327.	9.7	40
4363	Application of Coulomb's and Franklin's laws algorithm to solve large-scale optimal reactive power dispatch problems. <i>Soft Computing</i> , 2022, 26, 13899-13923.	2.1	10
4364	Adaptive guided salp swarm algorithm with velocity clamping mechanism for solving optimization problems. <i>Journal of Computational Design and Engineering</i> , 2022, 9, 2196-2234.	1.5	9
4365	A review of the literature on fuzzy-logic approaches for collision-free path planning of manipulator robots. <i>Artificial Intelligence Review</i> , 2023, 56, 3369-3444.	9.7	15
4366	Targeting Sustainable Transportation Development: The Support Vector Machine and the Bayesian Optimization Algorithm for Classifying Household Vehicle Ownership. <i>Sustainability</i> , 2022, 14, 11094.	1.6	7
4367	A multistrategy hybrid adaptive whale optimization algorithm. <i>Journal of Computational Design and Engineering</i> , 2022, 9, 1952-1973.	1.5	6
4368	Wild Geese Migration Optimization Algorithm: A New Meta-Heuristic Algorithm for Solving Inverse Kinematics of Robot. <i>Computational Intelligence and Neuroscience</i> , 2022, 2022, 1-38.	1.1	3
4369	A comprehensive review on Jaya optimization algorithm. <i>Artificial Intelligence Review</i> , 2023, 56, 4329-4361.	9.7	6
4370	Magnetic force prediction of hybrid magnet with Halbach array using generalized regression neural network optimized by a modified aquila optimizer. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2022, , 1-24.	0.3	1
4371	Structural design with dynamic constraints using weighted chaos game optimization. <i>Journal of Computational Design and Engineering</i> , 2022, 9, 2271-2296.	1.5	7
4372	Hybridizing slime mould algorithm with simulated annealing algorithm: a hybridized statistical approach for numerical and engineering design problems. <i>Complex & Intelligent Systems</i> , 2023, 9, 1525-1582.	4.0	3
4373	Dark-Matter Search Optimiser. <i>Mechanisms and Machine Science</i> , 2023, , 145-164.	0.3	0
4374	B-Spline Curve Fitting of Hungry Predation Optimization on Ship Line Design. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 9465.	1.3	3

#	ARTICLE	IF	CITATIONS
4375	A new human-based metaheuristic optimization method based on mimicking cooking training. Scientific Reports, 2022, 12, .	1.6	36
4376	Swarming genetic algorithm: A nested fully coupled hybrid of genetic algorithm and particle swarm optimization. PLoS ONE, 2022, 17, e0275094.	1.1	4
4377	Dynamic scaling factor based differential evolution with multi-layer perceptron for gene selection from pathway information of microarray data. Multimedia Tools and Applications, 0, , .	2.6	4
4378	GWLBC: Gray Wolf Optimization Based Load Balanced Clustering for Sustainable WSNs in Smart City Environment. Sensors, 2022, 22, 7113.	2.1	5
4380	Modifications of Flower Pollination, Teacher-Learner and Firefly Algorithms for Solving Multiextremal Optimization Problems. Algorithms, 2022, 15, 359.	1.2	0
4381	Parameters Tuning of Fractional-Order Proportional Integral Derivative in Water Turbine Governing System Using an Effective SDO with Enhanced Fitness-Distance Balance and Adaptive Local Search. Water (Switzerland), 2022, 14, 3035.	1.2	3
4382	Improved Whale Optimization Algorithm Based on Hybrid Strategy and Its Application in Location Selection for Electric Vehicle Charging Stations. Energies, 2022, 15, 7035.	1.6	4
4383	Light Spectrum Optimizer: A Novel Physics-Inspired Metaheuristic Optimization Algorithm. Mathematics, 2022, 10, 3466.	1.1	26
4384	Optimization and Predictive Modeling of Reinforced Concrete Circular Columns. Materials, 2022, 15, 6624.	1.3	10
4385	Soil Liquefaction Prediction Based on Bayesian Optimization and Support Vector Machines. Sustainability, 2022, 14, 11944.	1.6	3
4386	Prediction of photovoltaic power output based on similar day analysis using RBF neural network with adaptive black widow optimization algorithm and K-means clustering. Frontiers in Energy Research, 0, 10, .	1.2	1
4387	An application of Wild Horse Optimizer to multi-objective energy management in a micro-grid. Electrical Engineering, 2022, 104, 4521-4541.	1.2	5
4388	A Classification Technique for English Teaching Resources and Merging Using Swarm Intelligence Algorithm. Mobile Information Systems, 2022, 2022, 1-11.	0.4	1
4389	A hybrid binary dwarf mongoose optimization algorithm with simulated annealing for feature selection on high dimensional multi-class datasets. Scientific Reports, 2022, 12, .	1.6	32
4390	Development of Hybrid Intelligent Models for Prediction Machining Performance Measure in End Milling of Ti6Al4V Alloy with PVD Coated Tool under Dry Cutting Conditions. Lubricants, 2022, 10, 236.	1.2	5
4391	An adaptive multilevel thresholding method with chaotically-enhanced Rao algorithm. Multimedia Tools and Applications, 2023, 82, 12351-12377.	2.6	3
4392	Augmented arithmetic optimization algorithm using opposite-based learning and Lévy flight distribution for global optimization and data clustering. Journal of Intelligent Manufacturing, 2023, 34, 3523-3561.	4.4	5
4393	Chaotic spotted hyena optimizer for numerical problems. Expert Systems, 0, , .	2.9	0

#	ARTICLE	IF	CITATIONS
4394	Least Cost Generation Expansion Planning considering Renewable Energy Resources Using Sine Cosine Algorithm. Arabian Journal for Science and Engineering, 0, , .	1.7	3
4395	Binary dwarf mongoose optimizer for solving high-dimensional feature selection problems. PLoS ONE, 2022, 17, e0274850.	1.1	14
4396	Levy Enhanced Cross Entropy-based Optimized Training of Feedforward Neural Networks. Engineering, Technology & Applied Science Research, 2022, 12, 9196-9202.	0.8	0
4397	Gravity Search Algorithm-Based Path Planning of Single Humanoid Based on the Study of Different Artificial Intelligence Techniques. Lecture Notes in Mechanical Engineering, 2023, , 913-921.	0.3	0
4398	Boxing Match Algorithm: a new meta-heuristic algorithm. Soft Computing, 2022, 26, 13277-13299.	2.1	6
4400	Introductory Review of Swarm Intelligence Techniques. Studies in Computational Intelligence, 2023, , 15-35.	0.7	1
4402	A Text Classification Optimization Framework for Prodigious Datasets. Smart Innovation, Systems and Technologies, 2023, , 677-691.	0.5	0
4403	Performance improvement and Lyapunov stability analysis of nonlinear systems using hybrid optimization techniques. Expert Systems, 0, , .	2.9	2
4405	A new quantum-inspired clustering method for reducing energy consumption in IOT networks. Internet of Things (Netherlands), 2022, 20, 100622.	4.9	4
4406	A novel version of grey wolf optimizer based on a balance function and its application for hyperparameters optimization in deep neural network (DNN) for structural damage identification. Engineering Failure Analysis, 2022, 142, 106829.	1.8	12
4407	Study of the GELS-GA algorithm on CVRP and its applications. AIP Conference Proceedings, 2022, , .	0.3	0
4408	Component Swarm Optimization Using Virtual Forces for Solving Layout Problems. Lecture Notes in Computer Science, 2022, , 292-299.	1.0	1
4409	Modified Salp Swarm Optimization for Parameter Estimation of Solar PV Models. IEEE Access, 2022, 10, 110181-110194.	2.6	18
4410	Adaptive heterogeneous particle swarm optimization with comprehensive learning strategy. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2022, 16, JAMDSM0035-JAMDSM0035.	0.3	2
4411	An Improved Squirrel Search Algorithm for Optimization. , 2022, , .		1
4412	Lineer Anten Dizilerinin Fizik Tabanlı AOA, CryStAl ve LA Algoritmaları ile Sentezi. Mühendislik Bilimleri Ve Araştırmalar Dergisi, 0, , .	0.3	0
4413	Dispatchable and Non-dispatchable Distributed Generation Reactive Power Coordination with Reactive Power-controlled Devices using Grey Wolf Optimizer. , 2022, , .		0
4414	The prediction of financial market based on BP neural network is used to maximize the income of investment. , 0, 26, 409-415.		0

#	ARTICLE	IF	CITATIONS
4415	Extreme Learning Machine Using Improved Gradient-Based Optimizer for Dam Seepage Prediction. Arabian Journal for Science and Engineering, 2023, 48, 9693-9712.	1.7	3
4416	Lemurs Optimizer: A New Metaheuristic Algorithm for Global Optimization. Applied Sciences (Switzerland), 2022, 12, 10057.	1.3	18
4417	Kapurâ€™s entropy underwater image segmentation based on multi-strategy Manta ray foraging optimization. Multimedia Tools and Applications, 2023, 82, 21825-21863.	2.6	2
4418	Optimization of biomimetic heliostat field using heuristic optimization algorithms. Knowledge-Based Systems, 2022, 258, 110048.	4.0	3
4419	Coati Optimization Algorithm: A new bio-inspired metaheuristic algorithm for solving optimization problems. Knowledge-Based Systems, 2023, 259, 110011.	4.0	126
4420	A Modified Group Teaching Optimization Algorithm for Solving Constrained Engineering Optimization Problems. Mathematics, 2022, 10, 3765.	1.1	13
4422	Forestry Canopy Image Segmentation Based on Improved Tuna Swarm Optimization. Forests, 2022, 13, 1746.	0.9	6
4423	Modified Remora Optimization Algorithm with Multistrategies for Global Optimization Problem. Mathematics, 2022, 10, 3604.	1.1	21
4424	Hybrid modified marine predators algorithm with teaching-learning-based optimization for global optimization and abrupt motion tracking. Multimedia Tools and Applications, 2023, 82, 19793-19828.	2.6	4
4425	An aphid inspired metaheuristic optimization algorithm and its application to engineering. Scientific Reports, 2022, 12, .	1.6	1
4426	Underdetermined blind source separation method based on quantum Archimedes optimization algorithm. Applied Intelligence, 0, , .	3.3	1
4427	A comprehensive survey on the sineâ€™cosine optimization algorithm. Artificial Intelligence Review, 2023, 56, 4801-4858.	9.7	8
4428	Multi-Strategy Learning Boosted Colony Predation Algorithm for Photovoltaic Model Parameter Identification. Sensors, 2022, 22, 8281.	2.1	5
4429	An improved hybrid mayfly algorithm for global optimization. Journal of Supercomputing, 0, , .	2.4	0
4430	A Selfâ€™adaptive Bald Eagle Search optimization algorithm with dynamic oppositionâ€™based learning for global optimization problems. Expert Systems, 2023, 40, .	2.9	5
4431	Transmission Efficiency Optimal Design of Spiral Bevel Gear Based on Hybrid PSO GSA (Particle Swarm) Tj ETQq1 1 0.784314 ggBT /Over	1.3	1
4432	Model NOx, SO2 Emissions Concentration and Thermal Efficiency of CFBB Based on a Hyper-Parameter Self-Optimized Broad Learning System. Energies, 2022, 15, 7700.	1.6	2
4433	LARO: Opposition-Based Learning Boosted Artificial Rabbits-Inspired Optimization Algorithm with LÃ©vy Flight. Symmetry, 2022, 14, 2282.	1.1	9

#	ARTICLE	IF	CITATIONS
4436	Gazelle optimization algorithm: a novel nature-inspired metaheuristic optimizer. <i>Neural Computing and Applications</i> , 2023, 35, 4099-4131.	3.2	97
4437	Particle Swarm Optimization with a Simplex Strategy to Avoid Getting Stuck on Local Optimum. , 0, 2022, 1-40.		4
4438	A new human-inspired metaheuristic algorithm for solving optimization problems based on mimicking sewing training. <i>Scientific Reports</i> , 2022, 12, .	1.6	29
4439	A hybrid deep feature selection framework for emotion recognition from human speeches. <i>Multimedia Tools and Applications</i> , 2023, 82, 11461-11487.	2.6	2
4440	Novel design and optimization of S band patch antenna for space application by using a gravitational search algorithm. <i>International Journal on Interactive Design and Manufacturing</i> , 0, , .	1.3	0
4441	Power minimization of gas transmission network in fully transient state using metaheuristic methods. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , 2022, .	0.4	0
4442	An improved Harris Hawks optimizer combined with extremal optimization. <i>International Journal of Machine Learning and Cybernetics</i> , 2023, 14, 655-682.	2.3	2
4443	A Modified Gorilla Troops Optimizer for Global Optimization Problem. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 10144.	1.3	9
4444	Title is missing!. , 2023, , .		0
4445	Assessment of Optimal Size and Location of DG/CB in Distribution Systems using Coulombâ€™Franklinâ€™s Algorithm. <i>Journal of the Institution of Engineers (India): Series B</i> , 2022, 103, 1885-1908.	1.3	2
4446	Directional crossover slime mould algorithm with adaptive Lévy diversity for the optimal design of real-world problems. <i>Journal of Computational Design and Engineering</i> , 0, , .	1.5	4
4447	A novel optimisation framework for interpretation of unconfined aquifer pumping test data. <i>Water Management</i> , 0, , 1-14.	0.4	1
4448	A review of recent advances in quantum-inspired metaheuristics. <i>Evolutionary Intelligence</i> , 0, , .	2.3	7
4449	Application of Meta-Heuristic Algorithms for Training Neural Networks and Deep Learning Architectures: A Comprehensive Review. <i>Neural Processing Letters</i> , 2023, 55, 4519-4622.	2.0	34
4450	A horizontal and vertical crossover cuckoo search: optimizing performance for the engineering problems. <i>Journal of Computational Design and Engineering</i> , 2023, 10, 36-64.	1.5	7
4451	Tool wear state recognition based on WOA-SVM with statistical feature fusion of multi-signal singularity. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 123, 2209-2225.	1.5	6
4452	Performance-aware design for piezoelectric energy harvesting optimisation via finite element analysis. <i>International Journal of Mechanics and Materials in Design</i> , 2023, 19, 121-136.	1.7	2
4453	Multiâ€™strategy Equilibrium Optimizer: An improved meta-heuristic tested on numerical optimization and engineering problems. <i>PLoS ONE</i> , 2022, 17, e0276210.	1.1	2

#	ARTICLE	IF	CITATIONS
4454	Equilibrium Optimizer and Slime Mould Algorithm with Variable Neighborhood Search for Job Shop Scheduling Problem. <i>Mathematics</i> , 2022, 10, 4063.	1.1	5
4455	Quantum-inspired metaheuristic algorithms: comprehensive survey and classification. <i>Artificial Intelligence Review</i> , 2023, 56, 5479-5543.	9.7	60
4456	A Historical Review on the Computational Techniques for Mechanism Synthesis: Developments Up to 2022. <i>Archives of Computational Methods in Engineering</i> , 0, , .	6.0	2
4457	Fuzzy-based hunger games search algorithm for global optimization and feature selection using medical data. <i>Neural Computing and Applications</i> , 2023, 35, 5251-5275.	3.2	14
4458	Chaos follow the leader algorithm: Application to data classification. <i>Journal of Computational Science</i> , 2022, 65, 101886.	1.5	3
4459	A Comparative Approach for Two-Dimensional Digital IIR Filter Design Applying Different Evolutionary Computational Techniques. <i>Studies in Computational Intelligence</i> , 2023, , 11-36.	0.7	0
4460	Comparison Study of Novel Evolutionary Algorithms for Elliptical Shapes in Images. <i>Studies in Computational Intelligence</i> , 2023, , 63-87.	0.7	0
4461	An Enhanced Evaporation Rate Water-Cycle Algorithm for Global Optimization. <i>Processes</i> , 2022, 10, 2254.	1.3	18
4462	Sardine Optimization Algorithm with Agile Locality and Globality Strategies for Real Optimization Problems. <i>Arabian Journal for Science and Engineering</i> , 0, , .	1.7	1
4463	A novel improved whale optimization algorithm for optimization problems with multi-strategy and hybrid algorithm. <i>Mathematics and Computers in Simulation</i> , 2023, 205, 794-817.	2.4	18
4464	Comparison of Metaheuristics for Chaotic Systems Estimation. <i>Studies in Computational Intelligence</i> , 2023, , 37-61.	0.7	0
4465	Comparison of Metaheuristics Techniques and Agent-Based Approaches. <i>Studies in Computational Intelligence</i> , 2023, , 169-220.	0.7	0
4466	Comparison of Optimization Techniques for Solar Cells Parameter Identification. <i>Studies in Computational Intelligence</i> , 2023, , 121-167.	0.7	0
4467	Metaheuristic optimization based feature subset selection with deep belief network for stress prediction in working employees. <i>Concurrency Computation Practice and Experience</i> , 0, , .	1.4	0
4468	Homonuclear Molecules Optimization (HMO) meta-heuristic algorithm. <i>Knowledge-Based Systems</i> , 2022, 258, 110032.	4.0	7
4469	Multi-strategy assisted chaotic coot-inspired optimization algorithm for medical feature selection: A cervical cancer behavior risk study. <i>Computers in Biology and Medicine</i> , 2022, 151, 106239.	3.9	13
4470	Mountain Gazelle Optimizer: A new Nature-inspired Metaheuristic Algorithm for Global Optimization Problems. <i>Advances in Engineering Software</i> , 2022, 174, 103282.	1.8	119
4471	ESA-ASO: An enhanced search ability based atom search optimization algorithm for epileptic seizure detection. <i>Measurement: Sensors</i> , 2022, 24, 100519.	1.3	5

#	ARTICLE	IF	CITATIONS
4472	A novel minimum generalized cross entropy-based multilevel segmentation technique for the brain MRI/dermoscopic images. <i>Computers in Biology and Medicine</i> , 2022, 151, 106214.	3.9	8
4473	Vibration and buckling optimization of functionally graded porous microplates using BCMO-ANN algorithm. <i>Thin-Walled Structures</i> , 2023, 182, 110267.	2.7	58
4474	Application of effective gravitational search algorithm with constraint priority and expert experience in optimal allocation problems of distribution network. <i>Engineering Applications of Artificial Intelligence</i> , 2023, 117, 105533.	4.3	8
4475	Al-Biruni Earth Radius (BER) Metaheuristic Search Optimization Algorithm. <i>Computer Systems Science and Engineering</i> , 2023, 45, 1917-1934.	1.9	25
4476	Performance optimization of water cycle algorithm for multilevel lupus nephritis image segmentation. <i>Biomedical Signal Processing and Control</i> , 2023, 80, 104139.	3.5	5
4477	Boosted sooty tern optimization algorithm for global optimization and feature selection. <i>Expert Systems With Applications</i> , 2023, 213, 119015.	4.4	41
4478	An adaptive quadratic interpolation and rounding mechanism sine cosine algorithm with application to constrained engineering optimization problems. <i>Expert Systems With Applications</i> , 2023, 213, 119041.	4.4	33
4479	A collaboration-based hybrid GWO-SCA optimizer for engineering optimization problems. <i>Expert Systems With Applications</i> , 2023, 213, 119017.	4.4	17
4480	A hybrid transient search naked mole-rat optimizer for image segmentation using multilevel thresholding. <i>Expert Systems With Applications</i> , 2023, 213, 119021.	4.4	3
4482	Empirical Similarity Measure for Metaheuristics. <i>Lecture Notes in Computer Science</i> , 2022, , 69-83.	1.0	3
4483	Research and Application of a New Lion Swarm Algorithm. <i>IEEE Access</i> , 2022, 10, 116205-116223.	2.6	1
4484	Sonar-Based Human Leg Localization Using Chaos Enhanced Dynamic Neighborhood Learning-Based GSA Aided sNDT Algorithm. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022, 71, 1-12.	2.4	1
4485	Young's double-slit experiment optimizer : A novel metaheuristic optimization algorithm for global and constraint optimization problems. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2023, 403, 115652.	3.4	35
4486	Gravity particle swarm optimization algorithm for solving shop visit balancing problem for repairable equipment. <i>Engineering Applications of Artificial Intelligence</i> , 2023, 117, 105543.	4.3	6
4487	Special Relativity Search for applied mechanics and engineering. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2023, 403, 115734.	3.4	11
4488	Inter-subject prediction of pediatric emergence delirium using feature selection and classification from spontaneous EEG signals. <i>Biomedical Signal Processing and Control</i> , 2023, 80, 104359.	3.5	4
4489	Parameter extraction for photovoltaic models with tree seed algorithm. <i>Energy Reports</i> , 2023, 9, 174-185.	2.5	13
4490	Optimal Distributed Generation Allocation in Distribution Systems with Non-Linear Loads Using a New Hybrid Meta-Heuristic Algorithm. , 2019, 13, 4-13.		0

#	ARTICLE	IF	CITATIONS
4491	Hybrid Intelligent Optimization Technique (HIOT) Driven FOPID Controller for Load Frequency Control of Deregulated Power System. , 2022, , .		1
4492	Ship Energy Management Strategy Based on Improved Gravitational Search Algorithm. , 2022, , .		1
4493	Nature-Inspired Optimization Algorithms: Past to Present. Intelligent Systems Reference Library, 2023, , 1-32.	1.0	0
4494	Optimized Gradient Boosting Tree-Based Model for Obesity Level Prediction from patient's Physical Condition and Eating Habits. Intelligent Systems Reference Library, 2023, , 49-69.	1.0	0
4495	A novel marine predators algorithm with adaptive update strategy. Journal of Supercomputing, 2023, 79, 6612-6645.	2.4	4
4496	Termite life cycle optimizer. Expert Systems With Applications, 2023, 213, 119211.	4.4	29
4497	An Adaptive Sinusoidal-Disturbance-Strategy Sparrow Search Algorithm and Its Application. Sensors, 2022, 22, 8787.	2.1	3
4499	Binary African vultures optimization algorithm for various optimization problems. International Journal of Machine Learning and Cybernetics, 2023, 14, 1333-1364.	2.3	7
4500	Extract nonlinear operating rules of multi-reservoir systems using an efficient optimization method. Scientific Reports, 2022, 12, .	1.6	11
4501	Instigating the Sailfish Optimization Algorithm Based on Opposition-Based Learning to Determine the Salient Features From a High-Dimensional Dataset. International Journal of Information Technology and Decision Making, 0, , 1-33.	2.3	0
4502	A Critical Review of Optimization Strategies for Simultaneous Integration of Distributed Generation and Capacitor Banks in Power Distribution Networks. Energies, 2022, 15, 8258.	1.6	6
4503	Optimal Solution for Frequency and Voltage Control of an Islanded Microgrid Using Square Root Gray Wolf Optimization. Electronics (Switzerland), 2022, 11, 3644.	1.8	3
4504	A hybrid slime mould algorithm for global optimization. Multimedia Tools and Applications, 2023, 82, 22441-22467.	2.6	10
4505	Improved Black Widow Spider Optimization Algorithm Integrating Multiple Strategies. Entropy, 2022, 24, 1640.	1.1	9
4506	Characterizing the Vs Profile from Surface Wave Data Using a Customized Artificial Jellyfish Search Algorithm. Pure and Applied Geophysics, 2022, 179, 4429-4444.	0.8	2
4507	Heart Failure Detection from Clinical and Lifestyle Information using Optimized XGBoost with Gravitational Search Algorithm. Intelligent Systems Reference Library, 2023, , 97-112.	1.0	1
4508	Particle swarm optimization with Chebychev functional-link network model for engineering design problems. Applied Soft Computing Journal, 2022, 131, 109819.	4.1	1
4509	Disturbance Inspired Equilibrium Optimizer with Application to Constrained Engineering Design Problems. Applied Mathematical Modelling, 2022, , .	2.2	4

#	ARTICLE	IF	CITATIONS
4510	A precise inversion method of cable joint core temperature with non-embedded detection based on UMAP and ISSA-BPNN. <i>Frontiers in Energy Research</i> , 0, 10, .	1.2	1
4511	Deep feature selection using local search embedded social ski-driver optimization algorithm for breast cancer detection in mammograms. <i>Neural Computing and Applications</i> , 2023, 35, 5479-5499.	3.2	5
4512	Adaptive chimp optimization algorithm with chaotic map for global numerical optimization problems. <i>Journal of Supercomputing</i> , 2023, 79, 6507-6537.	2.4	6
4513	Comparison of Recent Meta-Heuristic Optimization Algorithms Using Different Benchmark Functions. <i>Journal of Mathematical Sciences and Modelling</i> , 2022, 5, 113-124.	0.2	2
4514	An Evolutionary Dynamic Control Cuckoo Search Algorithm for Solving the Constrained Engineering Design Problems. <i>International Journal of Swarm Intelligence Research</i> , 2022, 13, 1-25.	0.5	3
4515	A Novel Explainable Nature-inspired Metaheuristic: Jaguar Algorithm with Precision Hunting Behavior. , 2022, , .		0
4516	Opposition-based learning equilibrium optimizer with Levy flight and evolutionary population dynamics for high-dimensional global optimization problems. <i>Expert Systems With Applications</i> , 2023, 215, 119303.	4.4	17
4517	A hybrid learning-based genetic and grey-wolf optimizer for global optimization. <i>Soft Computing</i> , 0, , .	2.1	1
4518	Artificial intelligence based medical decision support system for early and accurate breast cancer prediction. <i>Advances in Engineering Software</i> , 2023, 175, 103338.	1.8	23
4519	Giant Trevally Optimizer (GTO): A Novel Metaheuristic Algorithm for Global Optimization and Challenging Engineering Problems. <i>IEEE Access</i> , 2022, 10, 121615-121640.	2.6	23
4520	Improved salp swarm algorithm based on gravitational search and multi-leader search strategies. <i>AIMS Mathematics</i> , 2022, 8, 5099-5123.	0.7	1
4521	Binary Gravitational Subspace Search for Outlier Detection in High Dimensional Data Streams. <i>Lecture Notes in Computer Science</i> , 2022, , 157-169.	1.0	2
4522	A modified reptile search algorithm for global optimization and image segmentation: Case study brain MRI images. <i>Computers in Biology and Medicine</i> , 2023, 152, 106404.	3.9	40
4523	Optimum Placement of Battery Energy Storage Systems and Solar PV Units in Distribution Networks Using Gravitational Search Algorithm. , 2023, , 113-123.		0
4524	Language Education Optimization: A New Human-Based Metaheuristic Algorithm for Solving Optimization Problems. <i>CMES - Computer Modeling in Engineering and Sciences</i> , 2023, 136, 1527-1573.	0.8	4
4525	An exploitation-boosted sine cosine algorithm for global optimization. <i>Engineering Applications of Artificial Intelligence</i> , 2023, 117, 105620.	4.3	5
4526	A survey of recently developed metaheuristics and their comparative analysis. <i>Engineering Applications of Artificial Intelligence</i> , 2023, 117, 105622.	4.3	27
4527	Fick's Law Algorithm: A physical law-based algorithm for numerical optimization. <i>Knowledge-Based Systems</i> , 2023, 260, 110146.	4.0	59

#	ARTICLE	IF	CITATIONS
4528	Binary Aquila Optimizer for 0-1 knapsack problems. Engineering Applications of Artificial Intelligence, 2023, 118, 105592.	4.3	14
4529	Growth Optimizer: A powerful metaheuristic algorithm for solving continuous and discrete global optimization problems. Knowledge-Based Systems, 2023, 261, 110206.	4.0	31
4530	An application of teaching-learning-based optimization for solving the optimal power flow problem with stochastic wind and solar power generators. Results in Control and Optimization, 2023, 10, 100187.	1.3	5
4531	Gravity data inversion applying a metaheuristic Bat algorithm for various ore and mineral models. Journal of Geodynamics, 2023, 155, 101953.	0.7	11
4532	The hybrid average subtraction and standard deviation based optimizer. Advances in Engineering Software, 2023, 176, 103387.	1.8	1
4533	A comparative performance analysis of intelligence-based algorithms for optimizing competitive facility location problems. Machine Learning With Applications, 2023, 11, 100443.	3.0	3
4534	Local search enhanced Aquila optimization algorithm ameliorated with an ensemble of Wavelet mutation strategies for complex optimization problems. Mathematics and Computers in Simulation, 2023, 206, 302-374.	2.4	10
4535	A new metaheuristic algorithm: Shrimp and Goby association search algorithm and its application for damage identification in large-scale and complex structures. Advances in Engineering Software, 2023, 176, 103363.	1.8	33
4536	A hybrid algorithm based on grey wolf optimizer and differential evolution for UAV path planning. Expert Systems With Applications, 2023, 215, 119327.	4.4	43
4537	Humanoid robot path planning using memory-based gravity search algorithm and enhanced differential evolution approach in a complex environment. Expert Systems With Applications, 2023, 215, 119423.	4.4	7
4538	Groundwater Flow Algorithm: A Novel Hydro-Geology Based Optimization Algorithm. IEEE Access, 2022, 10, 132193-132211.	2.6	7
4539	An Improved Lion Swarm Optimization Algorithm With Chaotic Mutation Strategy and Boundary Mutation Strategy for Global Optimization. IEEE Access, 2022, 10, 131264-131302.	2.6	1
4540	Introduction to Stochastic Optimisation. , 2022, , 3-16.		0
4541	Health Performance Interval Prediction of Pumped Storage Unit Based on Multi-objective Optimization. , 2022, , .		0
4542	Research on UFastSLAM Algorithm Based on Gravity Search Algorithm. , 2022, , .		1
4543	Mutational Chemotaxis Motion Driven Moth-Flame Optimizer for Engineering Applications. Applied Sciences (Switzerland), 2022, 12, 12179.	1.3	2
4544	Optimization of complex engineering problems using modified sine cosine algorithm. Scientific Reports, 2022, 12, .	1.6	6
4545	An enhanced hybrid seagull optimization algorithm with its application in engineering optimization. Engineering With Computers, 2023, 39, 1653-1696.	3.5	2

#	ARTICLE	IF	CITATIONS
4546	Optimal Scheduling of Plug-in Electric Vehicles Using Binary Gravitational Search Algorithm with A Suitable Decision Function. , 2022, , .		0
4547	Improved team learning-based grey wolf optimizer for optimization tasks and engineering problems. Journal of Supercomputing, 2023, 79, 10864-10914.	2.4	1
4548	Chaotic electromagnetic field optimization. Artificial Intelligence Review, 2023, 56, 9989-10030.	9.7	4
4549	Serval Optimization Algorithm: A New Bio-Inspired Approach for Solving Optimization Problems. Biomimetics, 2022, 7, 204.	1.5	15
4551	Dung beetle optimizer: a new meta-heuristic algorithm for global optimization. Journal of Supercomputing, 2023, 79, 7305-7336.	2.4	142
4552	Performance of scientific law-inspired optimization algorithms for constrained engineering applications. Engineering Optimization, 2023, 55, 1798-1812.	1.5	1
4553	HPSBA: A Modified Hybrid Framework with Convergence Analysis for Solving Wireless Sensor Network Coverage Optimization Problem. Axioms, 2022, 11, 675.	0.9	5
4556	Virtual Collection for Distributed Photovoltaic Data: Challenges, Methodologies, and Applications. Energies, 2022, 15, 8783.	1.6	56
4557	Modified Sand Cat Swarm Optimization Algorithm for Solving Constrained Engineering Optimization Problems. Mathematics, 2022, 10, 4350.	1.1	28
4558	An Enhanced Hybrid Jaya Algorithm for Size Optimization of Truss Structure Under Frequency Constraints. Lecture Notes in Networks and Systems, 2023, , 166-176.	0.5	3
4559	Running city game optimizer: a game-based metaheuristic optimization algorithm for global optimization. Journal of Computational Design and Engineering, 2023, 10, 65-107.	1.5	10
4560	A novel Human Conception Optimizer for solving optimization problems. Scientific Reports, 2022, 12, .	1.6	5
4561	Parameter extraction of three-diode solar photovoltaic model using a new metaheuristic resistance-capacitance optimization algorithm and improved Newton-Raphson method. Journal of Computational Electronics, 0, , .	1.3	4
4562	A novel radar operating mode identification approach based on variational relevance vector machine with chaotic gravitational search optimization. Transactions of the Institute of Measurement and Control, 0, , 014233122211341.	1.1	0
4563	Optimizing the distributed generators integration in electrical distribution networks: efficient modified forensic-based investigation. Neural Computing and Applications, 2023, 35, 8307-8342.	3.2	3
4564	Study of an Optimized Micro-Grid's Operation with Electrical Vehicle-Based Hybridized Sustainable Algorithm. Sustainability, 2022, 14, 16172.	1.6	2
4565	Hybrid whale optimization algorithm based on symbiosis strategy for global optimization. Applied Intelligence, 2023, 53, 16663-16705.	3.3	4
4566	A Modified FOC for FTC of Induction Motor Drives. Arabian Journal for Science and Engineering, 0, , .	1.7	0

#	ARTICLE	IF	CITATIONS
4567	Improved Remora Optimization Algorithm with Mutualistic Strategy for Solving Constrained Engineering Optimization Problems. <i>Processes</i> , 2022, 10, 2606.	1.3	2
4568	Comparison of recent metaheuristic optimization algorithms to solve the SHE optimization problem in MLI. <i>Neural Computing and Applications</i> , 2023, 35, 7369-7388.	3.2	7
4569	Efficient WSN Node Placement by Coupling KNN Machine Learning for Signal Estimations and I-HBIA Metaheuristic Algorithm for Node Position Optimization. <i>Sensors</i> , 2022, 22, 9927.	2.1	5
4570	Kaotik Denizat± Optimizasyon Algoritmas±. <i>European Journal of Science and Technology</i> , 0, , .	0.5	0
4571	A penalty-based algorithm proposal for engineering optimization problems. <i>Neural Computing and Applications</i> , 0, , .	3.2	0
4572	Artificial locust swarm optimization algorithm. <i>Soft Computing</i> , 2023, 27, 5663-5701.	2.1	2
4573	Photovoltaic Modelsâ€™ Parameter Extraction Using New Artificial Parameterless Optimization Algorithm. <i>Mathematics</i> , 2022, 10, 4617.	1.1	5
4574	Hybrid Sine Cosine Algorithm for Solving Engineering Optimization Problems. <i>Mathematics</i> , 2022, 10, 4555.	1.1	11
4575	A new flower pollination algorithm with improved convergence and its application to engineering optimization. <i>Decision Analytics Journal</i> , 2022, 5, 100144.	2.7	7
4576	A hybrid whale optimization algorithm based on equilibrium concept. <i>AEJ - Alexandria Engineering Journal</i> , 2023, 68, 763-786.	3.4	10
4577	Dynamic Chaotic Opposition-Based Learning-Driven Hybrid Aquila Optimizer and Artificial Rabbits Optimization Algorithm: Framework and Applications. <i>Processes</i> , 2022, 10, 2703.	1.3	16
4578	Hybrid Archimedes optimization algorithm enhanced with mutualism scheme for global optimization problems. <i>Artificial Intelligence Review</i> , 0, , .	9.7	3
4579	A Meta-Heuristic Algorithm Based on the Happiness Model. <i>Studies in Computational Intelligence</i> , 2023, , 109-126.	0.7	0
4580	A Multi-Disturbance Marine Predator Algorithm Based on Oppositional Learning and Compound Mutation. <i>Electronics (Switzerland)</i> , 2022, 11, 4087.	1.8	1
4581	Optimization Design of Automotive Body Stiffness Using a Boundary Hybrid Genetic Algorithm. <i>Machines</i> , 2022, 10, 1171.	1.2	2
4582	MSSSA: a multi-strategy enhanced sparrow search algorithm for global optimization. <i>Frontiers of Information Technology and Electronic Engineering</i> , 2022, 23, 1828-1847.	1.5	11
4583	A Behavioral Study of Different Controllers and Algorithms in Real-Time Applications. <i>IETE Journal of Research</i> , 0, , 1-25.	1.8	2
4584	Energy efficiency optimization of water pump based on heuristic algorithm and computational fluid dynamics. <i>Journal of Computational Design and Engineering</i> , 2023, 10, 382-397.	1.5	6

#	ARTICLE	IF	CITATIONS
4585	Diversity-Based Evolutionary Population Dynamics: A New Operator for Grey Wolf Optimizer. <i>Processes</i> , 2022, 10, 2615.	1.3	3
4586	An Improved Chimp-Inspired Optimization Algorithm for Large-Scale Spherical Vehicle Routing Problem with Time Windows. <i>Biomimetics</i> , 2022, 7, 241.	1.5	7
4587	Fast Training Set Size Reduction Using Simple Space Partitioning Algorithms. <i>Information (Switzerland)</i> , 2022, 13, 572.	1.7	1
4588	An efficient hybrid swarm intelligence optimization algorithm for solving nonlinear systems and clustering problems. <i>Soft Computing</i> , 2023, 27, 8867-8895.	2.1	5
4589	Adaptive Aquila Optimizer Combining Niche Thought with Dispersed Chaotic Swarm. <i>Sensors</i> , 2023, 23, 755.	2.1	2
4590	Analyzing Physics-Inspired Metaheuristic Algorithms in Feature Selection with K-Nearest-Neighbor. <i>Applied Sciences (Switzerland)</i> , 2023, 13, 906.	1.3	15
4591	Velocity pausing particle swarm optimization: a novel variant for global optimization. <i>Neural Computing and Applications</i> , 0, , .	3.2	6
4592	A novel hybrid PSO based on levy flight and wavelet mutation for global optimization. <i>PLoS ONE</i> , 2023, 18, e0279572.	1.1	5
4593	Improved Phasor Particle Swarm Optimization with Fitness Distance Balance for Optimal Power Flow Problem of Hybrid AC/DC Power Grids. , 2023, , 307-336.		1
4594	CSSA-based collaborative optimization recommendation of users in mobile crowdsensing. <i>Peer-to-Peer Networking and Applications</i> , 2023, 16, 803-817.	2.6	1
4595	Cauchy mutation boosted Harris hawk algorithm: Optimal performance design and engineering applications. <i>Journal of Computational Design and Engineering</i> , 0, , .	1.5	4
4596	Group-individual multi-mode cooperative teaching-learning-based optimization algorithm and an industrial engineering application. <i>Journal of Intelligent and Fuzzy Systems</i> , 2023, , 1-29.	0.8	0
4597	MMKE: Multi-trial vector-based monkey king evolution algorithm and its applications for engineering optimization problems. <i>PLoS ONE</i> , 2023, 18, e0280006.	1.1	15
4598	Willow Catkin Optimization Algorithm Applied in the TDOA-FDOA Joint Location Problem. <i>Entropy</i> , 2023, 25, 171.	1.1	5
4599	Like-attracts-like optimizer-based video robotics clustering control design for power device monitoring and inspection. <i>Frontiers in Energy Research</i> , 0, 10, .	1.2	0
4601	A non-convex economic load dispatch problem using chameleon swarm algorithm with roulette wheel and Levy flight methods. <i>Applied Intelligence</i> , 2023, 53, 17508-17547.	3.3	6
4602	An Improved Bald Eagle Search Algorithm with Cauchy Mutation and Adaptive Weight Factor for Engineering Optimization. <i>CMES - Computer Modeling in Engineering and Sciences</i> , 2023, 136, 1603-1642.	0.8	5
4605	A novel improved teaching and learning-based-optimization algorithm and its application in a large-scale inventory control system. <i>International Journal of Intelligent Computing and Cybernetics</i> , 2023, ahead-of-print, .	1.6	0

#	Article	IF	CITATIONS
4606	Artificial CPSOGSA-based mixed H^2 robust controller for the multi-hydro-turbine governing system with sharing common penstock. Renewable Energy, 2023, 206	4.3	0
4607	Improved Gradient-Based Optimizer with Dynamic Fitness Distance Balance for Global Optimization Problems. , 2023, , 247-269.		1
4608	Human activity recognition using marine predators algorithm with deep learning. Future Generation Computer Systems, 2023, 142, 340-350.	4.9	24
4609	Memory, evolutionary operator, and local search based improved Grey Wolf Optimizer with linear population size reduction technique. Knowledge-Based Systems, 2023, 264, 110297.	4.0	17
4610	Discrete equilibrium optimizer combined with simulated annealing for feature selection. Journal of Computational Science, 2023, 67, 101942.	1.5	8
4611	Optimized Load Frequency Controller Performances With a Reduced Number of Decision Variables: A Gravitational Search Algorithm-Based Method. IEEE Systems, Man, and Cybernetics Magazine, 2023, 9, 48-57.	1.2	0
4612	Participation of Renewable Energy Sources in the Frequency Regulation Issues of a Five-Area Hybrid Power System Utilizing a Sine Cosine-Adopted African Vulture Optimization Algorithm. Energies, 2023, 16, 926.	1.6	8
4613	Comparative Study of AVR Control Systems Considering a Novel Optimized PID-Based Model Reference Fractional Adaptive Controller. Energies, 2023, 16, 830.	1.6	6
4614	Performance assessment and exhaustive listing of 500+ nature-inspired metaheuristic algorithms. Swarm and Evolutionary Computation, 2023, 77, 101248.	4.5	40
4615	Energy valley optimizer: a novel metaheuristic algorithm for global and engineering optimization. Scientific Reports, 2023, 13, .	1.6	26
4616	Marine predator algorithm with elite strategies for engineering design problems. Concurrency Computation Practice and Experience, 2023, 35, .	1.4	5
4617	Design of intelligent nonlinear robust controller for hydro-turbine governing system based on state-dynamic-measurement hybrid feedback linearization method. Renewable Energy, 2023, 204, 635-651.	4.3	5
4618	Billiards Optimization Algorithm: A New Game-Based Metaheuristic Approach. Computers, Materials and Continua, 2023, 74, 5283-5300.	1.5	1
4619	Predicting COVID-19 using lioness optimization algorithm and graph convolution network. Soft Computing, 2023, 27, 5437-5501.	2.1	1
4620	Damage identification in high-rise concrete structures using a bio-inspired meta-heuristic optimization algorithm. Advances in Engineering Software, 2023, 176, 103399.	1.8	18
4621	DTCSMO: An efficient hybrid starling murmuration optimizer for engineering applications. Computer Methods in Applied Mechanics and Engineering, 2023, 405, 115878.	3.4	22
4622	A novel dynamic opposite learning enhanced Jaya optimization method for high efficiency plate-fin heat exchanger design optimization. Engineering Applications of Artificial Intelligence, 2023, 119, 105778.	4.3	14
4623	CWOA: A novel complex-valued encoding whale optimization algorithm. Mathematics and Computers in Simulation, 2023, 207, 151-188.	2.4	9

#	ARTICLE	IF	CITATIONS
4624	Hydrocarbon production dynamics forecasting using machine learning: A state-of-the-art review. Fuel, 2023, 337, 127067.	3.4	11
4625	From classical to soft computing based watermarking techniques: A comprehensive review. Future Generation Computer Systems, 2023, 141, 738-754.	4.9	5
4626	Flower pollination global peak search algorithm for partially shaded solar photovoltaic system. Journal of Building Engineering, 2023, 66, 105818.	1.6	4
4627	Research on Optimization of Fireworks Algorithm Based on Gravity Search Operator. , 2022, , .		0
4628	Optimal Coordination of Directional Overcurrent Relay Using Coyote optimization Algorithm. , 2022, , .		0
4629	Chameleon Swarm Algorithm Enhanced by Differential Evolution. , 2022, , .		0
4630	Prediction of Remaining Life of Lithium-ion Battery Based on Improved Sparrow Algorithm. , 2022, , .		1
4631	Stress Estimation of Concrete Dams in Service Based on Deformation Data Using SIEâ€“APSOâ€“CNNâ€“LSTM. Water (Switzerland), 2023, 15, 59.	1.2	1
4632	Advanced Hybrid Metaheuristic Machine Learning Models Application for Reference Crop Evapotranspiration Prediction. Agronomy, 2023, 13, 98.	1.3	19
4633	A novel comprehensive learning Rao algorithm for engineering optimization problems. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2023, 45, .	0.8	0
4635	Synergetic fusion of Reinforcement Learning, Grey Wolf, and Archimedes optimization algorithms for efficient health emergency response via unmanned aerial vehicle. Expert Systems, 0, , .	2.9	2
4636	Multi-sample learning particle swarm optimization with adaptive crossover operation. Mathematics and Computers in Simulation, 2023, 208, 246-282.	2.4	6
4637	Parameter Optimisation-Based Hybrid Reference Evapotranspiration Prediction Models: A Systematic Review of Current Implementations and Future Research Directions. Atmosphere, 2023, 14, 77.	1.0	8
4638	The goat search algorithms. Artificial Intelligence Review, 2023, 56, 8265-8301.	9.7	8
4639	Parameter Estimation of Different Photovoltaic Models Using Hybrid Particle Swarm Optimization and Gravitational Search Algorithm. Applied Sciences (Switzerland), 2023, 13, 249.	1.3	10
4640	Gradient-Based Optimizer (GBO): A Review, Theory, Variants, and Applications. Archives of Computational Methods in Engineering, 2023, 30, 2431-2449.	6.0	10
4641	A novel Q-learning algorithm based on improved whale optimization algorithm for path planning. PLoS ONE, 2022, 17, e0279438.	1.1	5
4642	Efficient target monitoring with <sc>fault-tolerant</sc> connectivity in wireless sensor networks. Transactions on Emerging Telecommunications Technologies, 2023, 34, .	2.6	2

#	ARTICLE	IF	CITATIONS
4643	Simultaneous Multi-beam Forming Method for Planar Array based on Improved Gravitational Search Algorithm. , 2021, , .		0
4644	An Optimal-Parent-Crossover based Differential Evolution. , 2022, , .		0
4645	Gradient-based optimization. , 2023, , 243-251.		0
4646	A modified adaptive sparrow search algorithm based on chaotic reverse learning and spiral search for global optimization. Neural Computing and Applications, 2023, 35, 24603-24620.	3.2	7
4647	Design and analysis of a very low imbalance broadband active balun. Analog Integrated Circuits and Signal Processing, 0, , .	0.9	0
4648	A multi-strategy enhanced African vultures optimization algorithm for global optimization problems. Journal of Computational Design and Engineering, 2023, 10, 329-356.	1.5	11
4649	Fireworks explosion boosted Harris Hawks optimization for numerical optimization: Case of classifying the severity of COVID-19. Frontiers in Neuroinformatics, 0, 16, .	1.3	0
4650	An enhanced aquila optimization algorithm with velocity-aided global search mechanism and adaptive opposition-based learning. Mathematical Biosciences and Engineering, 2023, 20, 6422-6467.	1.0	4
4651	Adaptive Holt-Winters Forecasting Method based on Artificial Intelligence Techniques. , 2023, , .		0
4652	Two-dimensional composite multi-scale time-frequency reverse dispersion entropy-based fault diagnosis for rolling bearing. Nonlinear Dynamics, 2023, 111, 7525-7546.	2.7	1
4653	A league-knock-out tournament quantum particle swarm optimization algorithm for nonlinear constrained optimization problems and applications. Evolving Systems, 2023, 14, 1117-1143.	2.4	2
4654	An Enhanced GWO Algorithm with Improved Explorative Search Capability for Global Optimization and Data Clustering. Applied Artificial Intelligence, 2023, 37, .	2.0	4
4655	A novel discrete ICO algorithm for influence maximization in complex networks. Computing (Vienna/New York), 2023, 105, 1523-1546.	3.2	1
4656	Performance evaluation of PCA based reduced features of leaf images extracted by DWT using random Forest and XGBoost classifier. Multimedia Tools and Applications, 2023, 82, 26225-26254.	2.6	4
4657	CPSOGSA Optimization Algorithm Driven Cascaded 3DOF-FOPID-FOPI Controller for Load Frequency Control of DFIG-Containing Interconnected Power System. Energies, 2023, 16, 1364.	1.6	3
4658	Exponential distribution optimizer (EDO): a novel math-inspired algorithm for global optimization and engineering problems. Artificial Intelligence Review, 2023, 56, 9329-9400.	9.7	19
4659	Hardware implementation of particle swarm optimization with chaotic fractional-order. Neural Computing and Applications, 0, , .	3.2	2
4660	Osprey optimization algorithm: A new bio-inspired metaheuristic algorithm for solving engineering optimization problems. Frontiers in Mechanical Engineering, 0, 8, .	0.8	60

#	ARTICLE	IF	CITATIONS
4661	Particle Swarm Optimization of Convolutional Neural Networks for Diabetic Retinopathy Classification. <i>Studies in Computational Intelligence</i> , 2023, , 237-252.	0.7	0
4662	An in-depth and contrasting survey of meta-heuristic approaches with classical feature selection techniques specific to cervical cancer. <i>Knowledge and Information Systems</i> , 2023, 65, 1881-1934.	2.1	2
4663	Application of combined GSA&sCSO algorithm to modified bounded knapsack with multiple constraints problem against uncertain coefficient. <i>AIP Conference Proceedings</i> , 2023, , .	0.3	0
4664	Gaussian bare-bone slime mould algorithm: performance optimization and case studies on truss structures. <i>Artificial Intelligence Review</i> , 2023, 56, 9051-9087.	9.7	7
4665	An Enhanced Multioperator Rungeâ€Kutta Algorithm for Optimizing Complex Water Engineering Problems. <i>Sustainability</i> , 2023, 15, 1825.	1.6	5
4666	Optimized Routing of UAVs Using Bio-Inspired Algorithm in FANET: A Systematic Review. <i>IEEE Access</i> , 2023, 11, 15588-15622.	2.6	8
4667	Discovering Entities Similarities in Biological Networks Using a Hybrid Immune Algorithm. <i>Informatics</i> , 2023, 10, 18.	2.4	0
4669	Sine Cosine Algorithm for Discrete Optimization Problems. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2023, , 65-86.	0.2	0
4670	User Interest Identification with Social Media Information using Natural Language and Meta-Heuristic Technique. <i>ACM Transactions on Asian and Low-Resource Language Information Processing</i> , 2024, 23, 1-17.	1.3	0
4671	Providing an algorithm for solving general optimization problems based on Domino theory. <i>Signal and Data Processing</i> , 2022, 19, 87-106.	0.0	0
4672	Multi-Scenario Bimetric-balanced IoT Resource Allocation: An Evolutionary Approach. , 2022, , .		0
4673	Stochastic Optimal Scheduling of Electric-Thermal-Hydrogen Integrated Energy System Based on Seagull Optimization Algorithm. , 2022, , .		0
4674	Efficient Cloud Clustering Schemes: A Review. , 2022, , .		0
4675	Precise fertilization technology of fruit trees based on quality analysis in China. , 2023, 3, 0-0.		0
4676	Bid-Based Economic Load Dispatch in Coordination with Virtual Power Plant. <i>Lecture Notes in Electrical Engineering</i> , 2023, , 189-202.	0.3	0
4677	LÃ©vy flight and Chaos theory based metaheuristics for grayscale image thresholding. , 2023, , 203-235.		0
4678	Methods and Methodologies for Congestion Alleviation in the DPS: A Comprehensive Review. <i>Energies</i> , 2023, 16, 1765.	1.6	2
4679	Optimal Allocation of Biomass Distributed Generators Using Modified Hunger Games Search to Reduce CO2 Emissions. <i>Journal of Marine Science and Engineering</i> , 2023, 11, 308.	1.2	3

#	ARTICLE	IF	CITATIONS
4680	A levy flight based strategy to improve the exploitation capability of arithmetic optimization algorithm for engineering global optimization problems. Transactions on Emerging Telecommunications Technologies, 2023, 34, .	2.6	8
4681	An improved harris hawks optimization algorithm based on chaotic sequence and opposite elite learning mechanism. PLoS ONE, 2023, 18, e0281636.	1.1	1
4682	Boosted arithmetic optimization algorithm with elite opposition-based pattern search mechanism and its promise to design microstrip patch antenna for WLAN and WiMAX. International Journal of Modelling and Simulation, 0, , 1-16.	2.3	4
4683	Single- and Multi-Objective Optimization Frameworks of Shape Design of Tubular Linear Synchronous Motor. Energies, 2023, 16, 2409.	1.6	4
4684	A novel approach using the local energy function and its variations for medical image fusion. Imaging Science Journal, 2023, 71, 660-676.	0.2	6
4685	Meta-heuristic Techniques in Microgrid Management: A Survey. Swarm and Evolutionary Computation, 2023, 78, 101256.	4.5	8
4686	Strengthened teachingâ€“learning-based optimization algorithm for numerical optimization tasks. Evolutionary Intelligence, 0, , .	2.3	1
4687	Lens law based optimization algorithm: a novel approach. Soft Computing, 2023, 27, 9501-9518.	2.1	0
4688	CEO election optimization algorithm and its application in constrained optimization problem. Soft Computing, 2023, 27, 7363-7400.	2.1	2
4689	An exhaustive review of the metaheuristic algorithms for search and optimization: taxonomy, applications, and open challenges. Artificial Intelligence Review, 2023, 56, 13187-13257.	9.7	26
4690	Optimal Layout of Electric Vehicle Charging Station Locations Considering Dynamic Charging Demand. Electronics (Switzerland), 2023, 12, 1818.	1.8	1
4691	An adaptive position-guided gravitational search algorithm for function optimization and image threshold segmentation. Engineering Applications of Artificial Intelligence, 2023, 121, 106040.	4.3	6
4692	Dynamic Hunting Leadership optimization: Algorithm and applications. Journal of Computational Science, 2023, 69, 102010.	1.5	4
4693	An optimum localization approach using hybrid TSNMRA in 2D WSNs. Computer Networks, 2023, 226, 109682.	3.2	2
4694	Estimating reference evapotranspiration using Penman-Monteith equation integrated with optimized solar radiation models. Journal of Hydrology, 2023, 620, 129407.	2.3	6
4695	An improved differential evolution algorithm based on basis vector type and its application in fringe projection 3D imaging. Knowledge-Based Systems, 2023, 268, 110470.	4.0	3
4696	A modified seahorse optimization algorithm based on chaotic maps for solving global optimization and engineering problems. Engineering Science and Technology, an International Journal, 2023, 41, 101408.	2.0	3
4697	Kepler optimization algorithm: A new metaheuristic algorithm inspired by Keplerâ€™s laws of planetary motion. Knowledge-Based Systems, 2023, 268, 110454.	4.0	51

#	ARTICLE	IF	CITATIONS
4698	Simulated annealing aided genetic algorithm for gene selection from microarray data. <i>Computers in Biology and Medicine</i> , 2023, 158, 106854.	3.9	6
4699	Development of the Natural Survivor Method (NSM) for designing an updating mechanism in metaheuristic search algorithms. <i>Engineering Applications of Artificial Intelligence</i> , 2023, 122, 106121.	4.3	16
4700	RIME: A physics-based optimization. <i>Neurocomputing</i> , 2023, 532, 183-214.	3.5	124
4701	A metaheuristic-based ensemble feature selection framework for cyber threat detection in IoT-enabled networks. <i>Decision Analytics Journal</i> , 2023, 7, 100206.	2.7	8
4702	Multi-dimensional non-uniform deformation and failure of siltstone determined using acoustic, 3D-digital image correlation, and computed tomography. <i>Theoretical and Applied Fracture Mechanics</i> , 2023, 125, 103800.	2.1	2
4703	Orchard Algorithm (OA): A new meta-heuristic algorithm for solving discrete and continuous optimization problems. <i>Mathematics and Computers in Simulation</i> , 2023, 208, 95-135.	2.4	26
4704	Learning-imitation strategy-assisted alpine skiing optimization for the boom of offshore drilling platform. <i>Ocean Engineering</i> , 2023, 278, 114317.	1.9	22
4705	An enhanced slime mould algorithm based on adaptive grouping technique for global optimization. <i>Expert Systems With Applications</i> , 2023, 222, 119877.	4.4	6
4706	Chaos-based optimal path planning of humanoid robot using hybridized regression-gravity search algorithm in static and dynamic terrains. <i>Applied Soft Computing Journal</i> , 2023, 140, 110236.	4.1	5
4707	EA: An Enhanced Chimp-Harris Hawks Optimization Algorithm for copyright protection in Color Images using watermarking techniques. <i>Knowledge-Based Systems</i> , 2023, 260, 110404.	4.0	3
4708	Boosting particle swarm optimization by backtracking search algorithm for optimization problems. <i>Swarm and Evolutionary Computation</i> , 2023, 79, 101304.	4.5	14
4709	Improved gravitational search algorithm and novel power flow prediction network for multi-objective optimal active dispatching problems. <i>Expert Systems With Applications</i> , 2023, 223, 119863.	4.4	2
4710	SaCHBA_PDN: Modified honey badger algorithm with multi-strategy for UAV path planning. <i>Expert Systems With Applications</i> , 2023, 223, 119941.	4.4	19
4711	An adaptive dynamic multi-swarm particle swarm optimization with stagnation detection and spatial exclusion for solving continuous optimization problems. <i>Engineering Applications of Artificial Intelligence</i> , 2023, 123, 106215.	4.3	5
4712	Locally informed gravitational search algorithm with hierarchical topological structure. <i>Engineering Applications of Artificial Intelligence</i> , 2023, 123, 106236.	4.3	2
4713	A reinforcement learning-based hybrid Aquila Optimizer and improved Arithmetic Optimization Algorithm for global optimization. <i>Expert Systems With Applications</i> , 2023, 224, 119898.	4.4	19
4714	A novel relation aware wrapper method for feature selection. <i>Pattern Recognition</i> , 2023, 140, 109566.	5.1	6
4715	Switching from exploration to exploitation in gravitational search algorithm based on diversity with Chaos. <i>Information Sciences</i> , 2023, 635, 298-327.	4.0	6

#	ARTICLE	IF	CITATIONS
4716	An adaptive neural network with nonlinear FOPID design of underwater robotic vehicle in the presence of disturbances, uncertainty, and obstacles. <i>Ocean Engineering</i> , 2023, 279, 114451.	1.9	7
4718	A wind speed forecasting model based on multi-objective algorithm and interpretability learning. <i>Energy</i> , 2023, 269, 126778.	4.5	11
4719	PSCSO: Enhanced sand cat swarm optimization inspired by the political system to solve complex problems. <i>Advances in Engineering Software</i> , 2023, 178, 103423.	1.8	18
4720	Gravitational Search Algorithm With Hierarchical Structure Guided By Elite Individual. , 2022, , .		3
4721	Deployment of IoT-Based Smart Demand-Side Management System with an Enhanced Degree of User Comfort at an Educational Institution. <i>Energies</i> , 2023, 16, 1403.	1.6	2
4722	A Novel Differential Evolution Sparrow Search Algorithm. , 2022, , .		0
4723	Support and defense strategy-assisted social network search algorithm and its application. <i>AIP Advances</i> , 2023, 13, 025219.	0.6	0
4724	A Comparative Study Among Some Natural-Inspired Optimization Algorithms. , 2022, , .		0
4725	A hierarchical feature selection strategy for deepfake video detection. <i>Neural Computing and Applications</i> , 2023, 35, 9363-9380.	3.2	8
4726	Technique for Multi-Pass Turning Optimization Based on Gaussian Quantum-Behaved Bat Algorithm. <i>CMES - Computer Modeling in Engineering and Sciences</i> , 2023, 136, 1575-1602.	0.8	0
4727	A hybrid moth-flame algorithm with particle swarm optimization with application in power transmission and distribution. <i>Decision Analytics Journal</i> , 2023, 6, 100182.	2.7	18
4728	MDO: a novel murmuration-flight based dispersive optimization algorithm and its application to image security. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2023, 14, 4809-4826.	3.3	2
4729	Trust-aware and energy-efficient data gathering in wireless sensor networks using PSO. <i>Soft Computing</i> , 0, , .	2.1	0
4730	EJS: Multi-Strategy Enhanced Jellyfish Search Algorithm for Engineering Applications. <i>Mathematics</i> , 2023, 11, 851.	1.1	27
4731	A Modified Oppositional Chaotic Local Search Strategy Based Aquila Optimizer to Design an Effective Controller for Vehicle Cruise Control System. <i>Journal of Bionic Engineering</i> , 2023, 20, 1828-1851.	2.7	15
4732	MFO-SFR: An Enhanced Moth-Flame Optimization Algorithm Using an Effective Stagnation Finding and Replacing Strategy. <i>Mathematics</i> , 2023, 11, 862.	1.1	24
4733	An improved poor and rich optimization algorithm. <i>PLoS ONE</i> , 2023, 18, e0267633.	1.1	2
4734	Levy flight incorporated hybrid learning model for gravitational search algorithm. <i>Knowledge-Based Systems</i> , 2023, 265, 110374.	4.0	3

#	ARTICLE	IF	CITATIONS
4735	An Intelligent Approach for Accurate Prediction of Chronic Diseases. Computer Systems Science and Engineering, 2023, 46, 2571-2587.	1.9	0
4736	A Wavelet Optimized Video Copy Detection Using Content Fingerprinting. Journal of Signal Processing Systems, 0, , .	1.4	0
4737	Study of Meta-heuristic Optimization Methodologies for Design of Hybrid Renewable Energy Systems. Thermal Science and Engineering Progress, 2023, 39, 101711.	1.3	7
4738	A dense obstacle avoidance algorithm for UAVs based on safe flight corridor. Xibei Gongye Daxue Xuebao/Journal of Northwestern Polytechnical University, 2022, 40, 1288-1296.	0.3	0
4739	An improved cooperation search algorithm for the multi-degree reduction in Ball Bézier surfaces. Soft Computing, 2023, 27, 11687-11714.	2.1	0
4740	A Systematic Study of Krill Herd and FOX Algorithms. , 2023, , 168-186.		1
4742	A self-learning discrete salp swarm algorithm based on deep reinforcement learning for dynamic job shop scheduling problem. Applied Intelligence, 2023, 53, 18925-18958.	3.3	6
4743	Multi-Robot Exploration of Unknown Space Using Combined Meta-Heuristic Salp Swarm Algorithm and Deterministic Coordinated Multi-Robot Exploration. Sensors, 2023, 23, 2156.	2.1	8
4744	A Hybrid STA Based on Nelder-Mead Simplex Search and Quadratic Interpolation. Electronics (Switzerland), 2023, 12, 994.	1.8	1
4745	A Multi-strategy Improved Outpost and Differential Evolution Mutation Marine Predators Algorithm for Global Optimization. Arabian Journal for Science and Engineering, 0, , .	1.7	1
4746	Optimization of micro grid with distributed energy resources using physics based meta heuristic techniques. IET Renewable Power Generation, 0, , .	1.7	2
4747	Nature-inspired stochastic hybrid technique for joint and individual inversion of DC and MT data. Scientific Reports, 2023, 13, .	1.6	1
4748	A systematic review on search-based test suite reduction: State-of-the-art, taxonomy, and future directions. IET Software, 2023, 17, 93-136.	1.5	3
4749	Fuzzy PID Control of Ultrasonic Motor Based on Improved Gravitational Search Algorithm. , 2022, , .		1
4750	Classification of polarimetric radar images based on SVM and BGSA. Signal and Data Processing, 2021, 18, 102-87.	0.0	0
4751	Proposing a Constrained-GSA for the Vehicle Routing Problem. Signal and Data Processing, 2022, 18, 23-36.	0.0	1
4752	Chaotic Social Group Optimization for Structural Engineering Design Problems. Journal of Bionic Engineering, 2023, 20, 1852-1877.	2.7	3
4753	Investigating the role of the carbon tax and loss of power supply probability in sizing a hybrid energy system, economically and environmentally. Energy Conversion and Management, 2023, 280, 116793.	4.4	8

#	ARTICLE	IF	CITATIONS
4754	An Inclusive Survey on Marine Predators Algorithm: Variants and Applications. Archives of Computational Methods in Engineering, 2023, 30, 3133-3172.	6.0	8
4755	Sand cat swarm optimization-based feedback controller design for nonlinear systems. Heliyon, 2023, 9, e13885.	1.4	1
4756	An adaptive balance optimization algorithm and its engineering application. Advanced Engineering Informatics, 2023, 55, 101908.	4.0	1
4757	Umbrellalike Hierarchical Artificial Bee Colony Algorithm. IEICE Transactions on Information and Systems, 2023, E106.D, 410-418.	0.4	1
4758	A complex network-based firefly algorithm for numerical optimization and time series forecasting. Applied Soft Computing Journal, 2023, 137, 110158.	4.1	1
4759	Non-Dominated Sorting-Based Hybrid Optimization Technique for Multi-Objective Hydrothermal Scheduling. Energies, 2023, 16, 2316.	1.6	0
4760	Application of improved hybrid whale optimization algorithm to optimization problems. Neural Computing and Applications, 2023, 35, 12433-12451.	3.2	6
4761	Coronavirus Mask Protection Algorithm: A New Bio-inspired Optimization Algorithm and Its Applications. Journal of Bionic Engineering, 2023, 20, 1747-1765.	2.7	27
4762	Spectrum Recovery Improvement in Cognitive Radio Using Grey Wolf Optimizer. Lecture Notes on Data Engineering and Communications Technologies, 2023, , 487-497.	0.5	0
4763	Bibliographical progress in hybrid renewable energy systems's integration, modelling, optimization, and artificial intelligence applications: A critical review and future research perspective. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2023, 45, 2058-2088.	1.2	5
4764	Chaos theory in metaheuristics. , 2023, , 1-20.		3
4765	Plum Tree Algorithm and Weighted Aggregated Ensembles for Energy Efficiency Estimation. Algorithms, 2023, 16, 134.	1.2	3
4766	Employment of bio-inspired algorithms in the field of antenna array optimization: A review. , 2023, , 393-406.		0
4767	Studying the Effect of Introducing Chaotic Search on Improving the Performance of the Sine Cosine Algorithm to Solve Optimization Problems and Nonlinear System of Equations. Mathematics, 2023, 11, 1231.	1.1	0
4768	Boosted Reptile Search Algorithm for Engineering and Optimization Problems. Applied Sciences (Switzerland), 2023, 13, 3206.	1.3	4
4769	A brief overview of physics-inspired metaheuristics. , 2023, , 49-63.		0
4770	Estimation of the Equivalent Circuit Parameters in Transformers Using Evolutionary Algorithms. Mathematical and Computational Applications, 2023, 28, 36.	0.7	2
4771	PPTS-PSO: A new hybrid scheduling algorithm for scientific workflow in cloud environment. Multimedia Tools and Applications, 0, , .	2.6	1

#	ARTICLE	IF	CITATIONS
4772	Opposition-based learning boosted orca predation algorithm with dimension learning: a case study of multi-degree reduction for NURBS curves. <i>Journal of Computational Design and Engineering</i> , 2023, 10, 722-757.	1.5	0
4773	A review of feature selection methods based on meta-heuristic algorithms. <i>Journal of Experimental and Theoretical Artificial Intelligence</i> , 0, , 1-51.	1.8	6
4774	Swarm and Evolutionary Algorithms in Image Compression by F-Transform. <i>IEEE Access</i> , 2023, 11, 25991-26003.	2.6	0
4775	Modified Artificial Gorilla Troop Optimization Algorithm for Solving Constrained Engineering Optimization Problems. <i>Mathematics</i> , 2023, 11, 1256.	1.1	1
4776	Mountaineering Team-Based Optimization: A Novel Human-Based Metaheuristic Algorithm. <i>Mathematics</i> , 2023, 11, 1273.	1.1	16
4777	Axis Orbit Recognition of the Hydropower Unit Based on Feature Combination and Feature Selection. <i>Sensors</i> , 2023, 23, 2895.	2.1	3
4779	A novel metaheuristic algorithm inspired by COVID-19 for real-parameter optimization. <i>Neural Computing and Applications</i> , 2023, 35, 10147-10196.	3.2	1
4780	Modifications of genetic, biogeography and particle swarm algorithms for solving multiextremal optimization problems. <i>AIP Conference Proceedings</i> , 2023, , .	0.3	0
4781	Design and Robustness Analysis of Multiple Extended State Observer Based Controller (MESOBC) for AVR of the Power System. <i>International Transactions on Electrical Energy Systems</i> , 2023, 2023, 1-15.	1.2	2
4782	Hybrid artificial electric field employing cuckoo search algorithm with refraction learning for engineering optimization problems. <i>Scientific Reports</i> , 2023, 13, .	1.6	11
4783	Role of Metaheuristics in Optimizing Microgrids Operating and Management Issues: A Comprehensive Review. <i>Sustainability</i> , 2023, 15, 4982.	1.6	6
4784	Green Anaconda Optimization: A New Bio-Inspired Metaheuristic Algorithm for Solving Optimization Problems. <i>Biomimetics</i> , 2023, 8, 121.	1.5	6
4785	Bacteria phototaxis optimizer. <i>Neural Computing and Applications</i> , 2023, 35, 13433-13464.	3.2	2
4786	A Comprehensive Survey on Arithmetic Optimization Algorithm. <i>Archives of Computational Methods in Engineering</i> , 2023, 30, 3379-3404.	6.0	13
4788	A hybrid C-GSA optimization routing algorithm for energy-efficient wireless sensor network. <i>Wireless Networks</i> , 2023, 29, 2279-2292.	2.0	3
4789	Enhanced Grey Wolf Optimizer for Data Clustering. <i>Communications in Computer and Information Science</i> , 2023, , 147-159.	0.4	0
4790	An Improved Future Search Algorithm Based on the Sine Cosine Algorithm for Function Optimization Problems. <i>IEEE Access</i> , 2023, 11, 30171-30187.	2.6	2
4791	Parameter Optimization in a Leaky Integrator Echo State Network with an Improved Gravitational Search Algorithm. <i>Mathematics</i> , 2023, 11, 1514.	1.1	2

#	ARTICLE	IF	CITATIONS
4792	A self-training subspace clustering algorithm based on adaptive confidence for gene expression data. <i>Frontiers in Genetics</i> , 0, 14, .	1.1	0
4793	An Advanced Artificial Fish School Algorithm to Update Decision Tree for NLOS Acoustic Localization Signal Identification with the Dual-Receiving Method. <i>Applied Sciences (Switzerland)</i> , 2023, 13, 4012.	1.3	1
4794	Wrapper-Based Federated Feature Selection for IoT Environments. , 2023, , .		0
4795	Multi-robot path planning using a hybrid dynamic window approach and modified chaotic neural oscillator-based hyperbolic gravitational search algorithm in a complex terrain. <i>Intelligent Service Robotics</i> , 2023, 16, 213-230.	1.6	2
4796	A systematic review of the emerging metaheuristic algorithms on solving complex optimization problems. <i>Neural Computing and Applications</i> , 2023, 35, 14275-14378.	3.2	5
4797	An Improved Black Widow Optimization Algorithm for Engineering Constrained Optimization Problems. <i>IEEE Access</i> , 2023, 11, 32476-32495.	2.6	5
4798	Modified reptile search algorithm with multi-hunting coordination strategy for global optimization problems. <i>Mathematical Biosciences and Engineering</i> , 2023, 20, 10090-10134.	1.0	2
4799	Tool path generation for 5-axis flank milling of ruled surfaces with optimal cutter locations considering multiple geometric constraints. <i>Chinese Journal of Aeronautics</i> , 2023, 36, 408-424.	2.8	1
4800	A novel membrane-inspired multiverse optimizer algorithm for quality of service-aware cloud web service composition with service level agreements. <i>International Journal of Communication Systems</i> , 2023, 36, .	1.6	1
4801	A modified crow search algorithm based on group strategy and adaptive mechanism. <i>Engineering Optimization</i> , 0, , 1-19.	1.5	1
4802	Predicting Discharge Coefficient of Triangular Side Orifice Using LSSVM Optimized by Gravity Search Algorithm. <i>Water (Switzerland)</i> , 2023, 15, 1341.	1.2	3
4803	American zebra optimization algorithm for global optimization problems. <i>Scientific Reports</i> , 2023, 13, .	1.6	15
4804	A novel hybrid multi-verse optimizer with queuing search algorithm. <i>Journal of Intelligent and Fuzzy Systems</i> , 2023, , 1-25.	0.8	1
4805	Random search immune algorithm for community detection. <i>Soft Computing</i> , 2023, 27, 8061-8090.	2.1	0
4806	An orthogonal electric fish optimization algorithm with quantization for global numerical optimization. <i>Soft Computing</i> , 0, , .	2.1	0
4807	Modified orca predation algorithm: developments and perspectives on global optimization and hybrid energy systems. <i>Neural Computing and Applications</i> , 2023, 35, 15051-15073.	3.2	2
4808	Levy Flight-Based Improved Grey Wolf Optimization: A Solution for Various Engineering Problems. <i>Mathematics</i> , 2023, 11, 1745.	1.1	4
4809	Subtraction-Average-Based Optimizer: A New Swarm-Inspired Metaheuristic Algorithm for Solving Optimization Problems. <i>Biomimetics</i> , 2023, 8, 149.	1.5	14

#	ARTICLE	IF	CITATIONS
4810	Aquila Algorithm: A Systematic Review of Variants and Applications. <i>Advances in Intelligent Systems and Computing</i> , 2023, , 415-428.	0.5	0
4812	Improved slime mould algorithm based on Gompertz dynamic probability and Cauchy mutation with application in FJSP. <i>Journal of Intelligent and Fuzzy Systems</i> , 2023, 44, 10397-10415.	0.8	1
4813	A Multi-Objective Hybrid BESSA Optimization Scheme for Parameter Extraction from PV Modules. <i>Applied Sciences (Switzerland)</i> , 2023, 13, 4705.	1.3	0
4814	Application of hybrid ANN paradigms built with nature inspired meta-heuristics for modelling soil compaction parameters. <i>Transportation Geotechnics</i> , 2023, 41, 100995.	2.0	11
4815	Optimized Allocation of Lightning Protection System Using PSO-GSA. , 2023, , .		1
4816	Compression of images with a mathematical approach based on sine and cosine equations and vector quantization (VQ). <i>Soft Computing</i> , 2023, 27, 17291-17311.	2.1	0
4817	Designing INS/GNSS integrated navigation systems by using IPO algorithms. <i>Neural Computing and Applications</i> , 2023, 35, 15461-15475.	3.2	1
4818	Recent Developments in Equilibrium Optimizer Algorithm: Its Variants and Applications. <i>Archives of Computational Methods in Engineering</i> , 2023, 30, 3791-3844.	6.0	4
4819	Adaptive Chaotic Marine Predators Hill Climbing Algorithm for Large-Scale Design Optimizations. <i>IEEE Access</i> , 2023, 11, 39269-39294.	2.6	2
4820	Stock market prediction using Altruistic Dragonfly Algorithm. <i>PLoS ONE</i> , 2023, 18, e0282002.	1.1	1
4821	An Improved Search and Rescue Algorithm for Global Optimization and Blood Cell Image Segmentation. <i>Diagnostics</i> , 2023, 13, 1422.	1.3	1
4822	Intelligent Static Calibration of Industrial Robots using Artificial Bee Colony Algorithm. , 2023, , .		1
4823	Free-Form Filters Designed Using Binary Optimization Algorithm. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2023, 13, 520-527.	1.4	1
4824	A Novel Integrated Heuristic Optimizer Using a Water Cycle Algorithm and Gravitational Search Algorithm for Optimization Problems. <i>Mathematics</i> , 2023, 11, 1880.	1.1	1
4826	A framework for co-evolutionary algorithm using Q-learning with meme. <i>Expert Systems With Applications</i> , 2023, 225, 120186.	4.4	2
4827	A parallel approach with the strategy-proof mechanism for large-scale group decision making: An application in industrial internet. <i>European Journal of Operational Research</i> , 2023, 311, 173-195.	3.5	2
4828	Multistrategy-Boosted Carnivorous Plant Algorithm: Performance Analysis and Application in Engineering Designs. <i>Biomimetics</i> , 2023, 8, 162.	1.5	2
4829	Kesikli Rao Algoritması. <i>Eskişehir Osmangazi Üniversitesi Mühendislik Ve Mimarlık Fakültesi Dergisi</i> , 0, 0.0		0

#	ARTICLE	IF	CITATIONS
4830	Study on DNA Storage Encoding Based IAOA under Innovation Constraints. Current Issues in Molecular Biology, 2023, 45, 3573-3590.	1.0	0
4831	Development of hybrid performance-based optimization algorithm for structures equipped with vibration damper devices. Archives of Civil and Mechanical Engineering, 2023, 23, .	1.9	0
4832	A Fully Hybrid Algorithm for Deadline Constrained Workflow Scheduling in Clouds. IEEE Transactions on Cloud Computing, 2023, , 1-15.	3.1	4
4833	A novel multi-level image segmentation algorithm via random opposition learning-based Aquila optimizer. International Journal of Wavelets, Multiresolution and Information Processing, 0, , .	0.9	0
4834	A local opposition-learning golden-sine grey wolf optimization algorithm for feature selection in data classification. Applied Soft Computing Journal, 2023, 142, 110319.	4.1	10
4848	GrS Algorithm for Solving Gas Transmission Compressor Design Problem. , 2022, , .		0
4854	An Improved Arithmetic Optimization Algorithm with Differential Evolution and Chaotic Local Search. Advances in Intelligent Systems and Computing, 2023, , 81-96.	0.5	1
4863	Implementation of Gravitational Search Algorithm - Ensemble in Predicting of Drug Side Effect: Case Study Hepatobiliary Disorders. , 2023, , .		0
4866	Using Grasshopper Optimization in Big Data. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2023, , 117-136.	0.2	1
4868	Very fast variations of training set size reduction algorithms for instance-based classification. , 2023, , .		0
4873	Optimization of Non-traditional Machining Processes: Application of a Simple Optimization Algorithm. Lecture Notes in Mechanical Engineering, 2023, , 601-617.	0.3	0
4874	Performance Evaluation of Jaya Algorithm During Search Space Violation. , 2022, , .		0
4880	Bi-Directional Long Short-Term Memory Optimization by Improved Teaching-Learning Based Algorithm for Univariate Gold Price Forecasting. , 2023, , .		0
4890	Improved Sine Cosine Algorithm for searching global optima. , 2023, , .		0
4902	A New Continuous Mycorrhiza Optimization Nature-Inspired Algorithm. Studies in Computational Intelligence, 2023, , 147-164.	0.7	0
4904	A review on nature inspired algorithm for test suite optimization. AIP Conference Proceedings, 2023, , .	0.3	0
4915	Electrical Muscle Stimulation Models Identification Based on Hammerstein Structure and Gravitational Search Algorithm. Lecture Notes in Networks and Systems, 2023, , 19-31.	0.5	0
4921	Metaheuristic algorithms. , 2023, , 71-78.		1

#	ARTICLE	IF	CITATIONS
4923	Conclusion and future research directions. , 2023, , 459-469.		0
4925	Äœbersicht: Naturalanaloge Optimierungen. , 2023, , 279-282.		0
4942	Satin Bower Bird Algorithm Based Solar Photovoltaic System. , 2023, , .		0
4952	Improved Spherical Evolution Algorithm with Intelligent Tuning of Search Space. , 2023, , .		0
4956	Literature Review On Metaheuristics Techniques In The Health Care Industry. , 2023, , .		0
4961	A Novel Hybrid Approach for Dimensionality Reduction in Microarray Data. Algorithms for Intelligent Systems, 2023, , 213-226.	0.5	0
4962	Metaheuristic Approach for Optimizing Neural Networks Parameters in Battery State of Charge Estimation. , 2023, , .		0
4963	Nature-Inspired Optimization Methods inÄDigital Filters Design. Smart Innovation, Systems and Technologies, 2023, , 205-214.	0.5	0
4986	Geo Science-Based Optimization Algorithms: A New Paradigm. Lecture Notes in Networks and Systems, 2023, , 565-573.	0.5	1
4989	Recent Advances of Chimp Optimization Algorithm: Variants and Applications. Journal of Bionic Engineering, 2023, 20, 2840-2862.	2.7	0
4990	Quantum Entanglement inspired Differential Evolution algorithm. , 2023, , .		1
4991	Feature Selection using Gravitational Search Algorithm in Customer Churn Prediction. , 2023, , .		0
4993	Chaos Gray Wolf global optimization algorithm based on Opposition-based Learning. , 2023, , .		0
4994	SLEO: An efficient Equilibrium Optimizer for numerical optimization. , 2022, , .		0
5029	Dynamic Neighborhood-Based Grey Wolf Optimizer With Dimension Learning-Based Hunting And LÄ©vy Flight. , 2023, , .		0
5031	Survey and Comparison of Nature Inspired Optimization Algorithms. , 2022, , .		0
5068	A Novel Computational Nanobiosensing Approach to Improve the Exploitation of In Vivo Computation. , 2023, , .		0
5070	Optimal Finite- Time Prescribed Performance of Servo Pneumatic Positioning with PID Control Tuning using an Evolutionary Mating Algorithm. , 2023, , .		0

#	ARTICLE	IF	CITATIONS
5073	Study on Artificial Neural Network Optimization for Electric Vehicle Battery State of Charge estimation. , 2023, , .		0
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5188	Trajectory-Driven Metaheuristic Approach Using a Second-Order Model. Intelligent Systems Reference Library, 2024, , 109-136.	1.0	0
5189	Efficient Image Contrast Enhancement by Using the Moth Swarm Algorithm. Intelligent Systems Reference Library, 2024, , 197-239.	1.0	0

#	ARTICLE	IF	CITATIONS
5191	Meta-heuristic Algorithms in IoT-Based Application: A Systematic Review. Lecture Notes in Networks and Systems, 2023, , 104-116.	0.5	0
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5236	Improved Mayfly Algorithm Based on Chaos Mapping and Attenuation Factor. , 2022, , .		0
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5307	Improved Mayfly Algorithm Based on Co-Evolution for Feature Selection. , 2023, , .		0
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#	ARTICLE	IF	CITATIONS
5313	Comprehensive Review of Metaheuristic Algorithms (MAs) for Optimal Control (OC) Improvement. Archives of Computational Methods in Engineering, 0, , .	6.0	0
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