

Amir Gandomi

List of Publications by Year in descending order

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408
papers

36,170
citations

5574

82
h-index

3915

177
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438
all docs

438
docs citations

438
times ranked

15728
citing authors

#	ARTICLE	IF	CITATIONS
1	Salp Swarm Algorithm: A bio-inspired optimizer for engineering design problems. <i>Advances in Engineering Software</i> , 2017, 114, 163-191.	3.8	3,369
2	Cuckoo search algorithm: a metaheuristic approach to solve structural optimization problems. <i>Engineering With Computers</i> , 2013, 29, 17-35.	6.1	1,671
3	Krill herd: A new bio-inspired optimization algorithm. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2012, 17, 4831-4845.	3.3	1,537
4	The Arithmetic Optimization Algorithm. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 376, 113609.	6.6	1,513
5	Bat algorithm: a novel approach for global engineering optimization. <i>Engineering Computations</i> , 2012, 29, 464-483.	1.4	1,313
6	Marine Predators Algorithm: A nature-inspired metaheuristic. <i>Expert Systems With Applications</i> , 2020, 152, 113377.	7.6	1,239
7	Aquila Optimizer: A novel meta-heuristic optimization algorithm. <i>Computers and Industrial Engineering</i> , 2021, 157, 107250.	6.3	1,209
8	Machine learning in geosciences and remote sensing. <i>Geoscience Frontiers</i> , 2016, 7, 3-10.	8.4	716
9	Firefly algorithm with chaos. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2013, 18, 89-98.	3.3	702
10	Reptile Search Algorithm (RSA): A nature-inspired meta-heuristic optimizer. <i>Expert Systems With Applications</i> , 2022, 191, 116158.	7.6	693
11	Mixed variable structural optimization using Firefly Algorithm. <i>Computers and Structures</i> , 2011, 89, 2325-2336.	4.4	673
12	Hunger games search: Visions, conception, implementation, deep analysis, perspectives, and towards performance shifts. <i>Expert Systems With Applications</i> , 2021, 177, 114864.	7.6	642
13	RUN beyond the metaphor: An efficient optimization algorithm based on Runge Kutta method. <i>Expert Systems With Applications</i> , 2021, 181, 115079.	7.6	552
14	Firefly Algorithm for solving non-convex economic dispatch problems with valve loading effect. <i>Applied Soft Computing Journal</i> , 2012, 12, 1180-1186.	7.2	538
15	Chaotic Krill Herd algorithm. <i>Information Sciences</i> , 2014, 274, 17-34.	6.9	478
16	Bat algorithm for constrained optimization tasks. <i>Neural Computing and Applications</i> , 2013, 22, 1239-1255.	5.6	442
17	Chaotic bat algorithm. <i>Journal of Computational Science</i> , 2014, 5, 224-232.	2.9	426
18	Interior search algorithm (ISA): A novel approach for global optimization. <i>ISA Transactions</i> , 2014, 53, 1168-1183.	5.7	371

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19	The Colony Predation Algorithm. <i>Journal of Bionic Engineering</i> , 2021, 18, 674-710.	5.0	365
20	INFO: An efficient optimization algorithm based on weighted mean of vectors. <i>Expert Systems With Applications</i> , 2022, 195, 116516.	7.6	356
21	Chaos-enhanced accelerated particle swarm optimization. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2013, 18, 327-340.	3.3	324
22	Residual Energy-Based Cluster-Head Selection in WSNs for IoT Application. <i>IEEE Internet of Things Journal</i> , 2019, 6, 5132-5139.	8.7	320
23	Multi-population differential evolution-assisted Harris hawks optimization: Framework and case studies. <i>Future Generation Computer Systems</i> , 2020, 111, 175-198.	7.5	259
24	Assessment of artificial neural network and genetic programming as predictive tools. <i>Advances in Engineering Software</i> , 2015, 88, 63-72.	3.8	253
25	A new multi-gene genetic programming approach to nonlinear system modeling. Part I: materials and structural engineering problems. <i>Neural Computing and Applications</i> , 2012, 21, 171-187.	5.6	246
26	Nonlinear Genetic-Based Models for Prediction of Flow Number of Asphalt Mixtures. <i>Journal of Materials in Civil Engineering</i> , 2011, 23, 248-263.	2.9	235
27	Chaotic gravitational constants for the gravitational search algorithm. <i>Applied Soft Computing Journal</i> , 2017, 53, 407-419.	7.2	235
28	New formulations for mechanical properties of recycled aggregate concrete using gene expression programming. <i>Construction and Building Materials</i> , 2017, 130, 122-145.	7.2	235
29	Imperialist competitive algorithm combined with chaos for global optimization. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2012, 17, 1312-1319.	3.3	218
30	Hybridizing harmony search algorithm with cuckoo search for global numerical optimization. <i>Soft Computing</i> , 2016, 20, 273-285.	3.6	217
31	Human Memory Update Strategy: A Multi-Layer Template Update Mechanism for Remote Visual Monitoring. <i>IEEE Transactions on Multimedia</i> , 2021, 23, 2188-2198.	7.2	217
32	Internet of Things Mobile "Air Pollution Monitoring System (IoT-Mobair). <i>IEEE Internet of Things Journal</i> , 2019, 6, 5577-5584.	8.7	215
33	An effective krill herd algorithm with migration operator in biogeography-based optimization. <i>Applied Mathematical Modelling</i> , 2014, 38, 2454-2462.	4.2	213
34	Prairie Dog Optimization Algorithm. <i>Neural Computing and Applications</i> , 2022, 34, 20017-20065.	5.6	212
35	Prediction of principal ground-motion parameters using a hybrid method coupling artificial neural networks and simulated annealing. <i>Computers and Structures</i> , 2011, 89, 2176-2194.	4.4	208
36	A robust data mining approach for formulation of geotechnical engineering systems. <i>Engineering Computations</i> , 2011, 28, 242-274.	1.4	207

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37	Multi-stage genetic programming: A new strategy to nonlinear system modeling. Information Sciences, 2011, 181, 5227-5239.	6.9	198
38	Stud krill herd algorithm. Neurocomputing, 2014, 128, 363-370.	5.9	194
39	A novel hybridization strategy for krill herd algorithm applied to clustering techniques. Applied Soft Computing Journal, 2017, 60, 423-435.	7.2	193
40	Chaotic cuckoo search. Soft Computing, 2016, 20, 3349-3362.	3.6	190
41	Evaluating the Quality of Machine Learning Explanations: A Survey on Methods and Metrics. Electronics (Switzerland), 2021, 10, 593.	3.1	187
42	A new predictive model for compressive strength of HPC using gene expression programming. Advances in Engineering Software, 2012, 45, 105-114.	3.8	183
43	An evolutionary approach for modeling of shear strength of RC deep beams. Materials and Structures/Materiaux Et Constructions, 2013, 46, 2109-2119.	3.1	181
44	Applications, Deployments, and Integration of Internet of Drones (IoD): A Review. IEEE Sensors Journal, 2021, 21, 25532-25546.	4.7	175
45	Hybrid krill herd algorithm with differential evolution for global numerical optimization. Neural Computing and Applications, 2014, 25, 297-308.	5.6	160
46	Formulation of flow number of asphalt mixes using a hybrid computational method. Construction and Building Materials, 2011, 25, 1338-1355.	7.2	158
47	Machine learning in medical applications: A review of state-of-the-art methods. Computers in Biology and Medicine, 2022, 145, 105458.	7.0	155
48	A new multi-gene genetic programming approach to non-linear system modeling. Part II: geotechnical and earthquake engineering problems. Neural Computing and Applications, 2012, 21, 189-201.	5.6	153
49	Resolving data sparsity and cold start problem in collaborative filtering recommender system using Linked Open Data. Expert Systems With Applications, 2020, 149, 113248.	7.6	152
50	Opposition-based krill herd algorithm with Cauchy mutation and position clamping. Neurocomputing, 2016, 177, 147-157.	5.9	148
51	Starling murmuration optimizer: A novel bio-inspired algorithm for global and engineering optimization. Computer Methods in Applied Mechanics and Engineering, 2022, 392, 114616.	6.6	145
52	Time Series Analysis and Forecast of the COVID-19 Pandemic in India using Genetic Programming. Chaos, Solitons and Fractals, 2020, 138, 109945.	5.1	144
53	A review on COVID-19 forecasting models. Neural Computing and Applications, 2023, 35, 23671-23681.	5.6	137
54	A comprehensive review of krill herd algorithm: variants, hybrids and applications. Artificial Intelligence Review, 2019, 51, 119-148.	15.7	136

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55	QANA: Quantum-based avian navigation optimizer algorithm. <i>Engineering Applications of Artificial Intelligence</i> , 2021, 104, 104314.	8.1	133
56	Design optimization of truss structures using cuckoo search algorithm. <i>Structural Design of Tall and Special Buildings</i> , 2013, 22, 1330-1349.	1.9	132
57	A new improved krill herd algorithm for global numerical optimization. <i>Neurocomputing</i> , 2014, 138, 392-402.	5.9	132
58	I-SEP: An Improved Routing Protocol for Heterogeneous WSN for IoT-Based Environmental Monitoring. <i>IEEE Internet of Things Journal</i> , 2020, 7, 710-717.	8.7	128
59	A survey of evolutionary computation for association rule mining. <i>Information Sciences</i> , 2020, 524, 318-352.	6.9	127
60	A Survey of Learning-Based Intelligent Optimization Algorithms. <i>Archives of Computational Methods in Engineering</i> , 2021, 28, 3781-3799.	10.2	125
61	Coupled eagle strategy and differential evolution for unconstrained and constrained global optimization. <i>Computers and Mathematics With Applications</i> , 2012, 63, 191-200.	2.7	124
62	A novel improved accelerated particle swarm optimization algorithm for global numerical optimization. <i>Engineering Computations</i> , 2014, 31, 1198-1220.	1.4	124
63	A hybrid method based on krill herd and quantum-behaved particle swarm optimization. <i>Neural Computing and Applications</i> , 2016, 27, 989-1006.	5.6	123
64	Multi expression programming: a new approach to formulation of soil classification. <i>Engineering With Computers</i> , 2010, 26, 111-118.	6.1	119
65	Addressing Security and Privacy Issues of IoT Using Blockchain Technology. <i>IEEE Internet of Things Journal</i> , 2021, 8, 881-888.	8.7	118
66	A chaotic particle-swarm krill herd algorithm for global numerical optimization. <i>Kybernetes</i> , 2013, 42, 962-978.	2.2	114
67	Novel Approach to Strength Modeling of Concrete under Triaxial Compression. <i>Journal of Materials in Civil Engineering</i> , 2012, 24, 1132-1143.	2.9	111
68	Metaheuristic Algorithms in Modeling and Optimization. , 2013, , 1-24.		110
69	A Novel Evolutionary Arithmetic Optimization Algorithm for Multilevel Thresholding Segmentation of COVID-19 CT Images. <i>Processes</i> , 2021, 9, 1155.	2.8	110
70	CCSA: Conscious Neighborhood-based Crow Search Algorithm for Solving Global Optimization Problems. <i>Applied Soft Computing Journal</i> , 2019, 85, 105583.	7.2	109
71	Classification of stroke disease using machine learning algorithms. <i>Neural Computing and Applications</i> , 2020, 32, 817-828.	5.6	107
72	Securing e-health records using keyless signature infrastructure blockchain technology in the cloud. <i>Neural Computing and Applications</i> , 2020, 32, 639-647.	5.6	106

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73	Securing Data in Internet of Things (IoT) Using Cryptography and Steganography Techniques. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 73-80.	9.3	104
74	A review on multimodal medical image fusion: Compendious analysis of medical modalities, multimodal databases, fusion techniques and quality metrics. Computers in Biology and Medicine, 2022, 144, 105253.	7.0	103
75	New formulation for compressive strength of CFRP confined concrete cylinders using linear genetic programming. Materials and Structures/Materiaux Et Constructions, 2010, 43, 963-983.	3.1	102
76	A hybrid computational approach to derive new ground-motion prediction equations. Engineering Applications of Artificial Intelligence, 2011, 24, 717-732.	8.1	102
77	A new hybrid method based on krill herd and cuckoo search for global optimisation tasks. International Journal of Bio-Inspired Computation, 2016, 8, 286.	0.9	101
78	The Revolution of Blockchain: State-of-the-Art and Research Challenges. Archives of Computational Methods in Engineering, 2021, 28, 1497-1515.	10.2	100
79	Modeling of maximum dry density and optimum moisture content of stabilized soil using artificial neural networks. Journal of Plant Nutrition and Soil Science, 2010, 173, 368-379.	1.9	98
80	Towards Precision Agriculture: IoT-Enabled Intelligent Irrigation Systems Using Deep Learning Neural Network. IEEE Sensors Journal, 2021, 21, 17479-17491.	4.7	96
81	Structural optimization using multi-objective modified adaptive symbiotic organisms search. Expert Systems With Applications, 2019, 125, 425-441.	7.6	95
82	Empirical modeling of plate load test moduli of soil via gene expression programming. Computers and Geotechnics, 2011, 38, 281-286.	4.7	94
83	A new prediction model for the load capacity of castellated steel beams. Journal of Constructional Steel Research, 2011, 67, 1096-1105.	3.9	85
84	Fire Hawk Optimizer: a novel metaheuristic algorithm. Artificial Intelligence Review, 2023, 56, 287-363.	15.7	85
85	Energy-based numerical models for assessment of soil liquefaction. Geoscience Frontiers, 2012, 3, 541-555.	8.4	82
86	Genetic programming for experimental big data mining: A case study on concrete creep formulation. Automation in Construction, 2016, 70, 89-97.	9.8	82
87	Data Science in Economics: Comprehensive Review of Advanced Machine Learning and Deep Learning Methods. Mathematics, 2020, 8, 1799.	2.2	82
88	Automated 3-D lung tumor detection and classification by an active contour model and CNN classifier. Expert Systems With Applications, 2019, 134, 112-119.	7.6	81
89	A multi-stage particle swarm for optimum design of truss structures. Neural Computing and Applications, 2013, 23, 1297-1309.	5.6	80
90	Permanent deformation analysis of asphalt mixtures using soft computing techniques. Expert Systems With Applications, 2011, 38, 6081-6100.	7.6	79

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91	Solving renewable energy source selection problems using a q-rung orthopair fuzzy-based integrated decision-making approach. <i>Journal of Cleaner Production</i> , 2021, 279, 123329.	9.3	77
92	Nonlinear modeling of shear strength of SFRC beams using linear genetic programming. <i>Structural Engineering and Mechanics</i> , 2011, 38, 1-25.	1.0	77
93	Optimum design of tower structures using Firefly Algorithm. <i>Structural Design of Tall and Special Buildings</i> , 2014, 23, 350-361.	1.9	76
94	Ant Colony Optimization Based Quality of Service Aware Energy Balancing Secure Routing Algorithm for Wireless Sensor Networks. <i>IEEE Transactions on Engineering Management</i> , 2021, 68, 170-182.	3.5	73
95	Design equations for prediction of pressuremeter soil deformation moduli utilizing expression programming systems. <i>Neural Computing and Applications</i> , 2013, 23, 1771-1786.	5.6	72
96	A hybrid computational intelligence approach for structural damage detection using marine predator algorithm and feedforward neural networks. <i>Computers and Structures</i> , 2021, 252, 106568.	4.4	71
97	Evolutionary Machine Learning: A Survey. <i>ACM Computing Surveys</i> , 2022, 54, 1-35.	23.0	70
98	Optimization of retaining wall design using recent swarm intelligence techniques. <i>Engineering Structures</i> , 2015, 103, 72-84.	5.3	68
99	Material Generation Algorithm: A Novel Metaheuristic Algorithm for Optimization of Engineering Problems. <i>Processes</i> , 2021, 9, 859.	2.8	67
100	Imperialistic Competitive Algorithm: A metaheuristic algorithm for locating the critical slip surface in 2-Dimensional soil slopes. <i>Geoscience Frontiers</i> , 2016, 7, 83-89.	8.4	66
101	Structural Health Monitoring in Composite Structures: A Comprehensive Review. <i>Sensors</i> , 2022, 22, 153.	3.8	66
102	Benchmark Problems in Structural Optimization. <i>Studies in Computational Intelligence</i> , 2011, , 259-281.	0.9	65
103	Advances in Meta-Heuristic Optimization Algorithms in Big Data Text Clustering. <i>Electronics (Switzerland)</i> , 2021, 10, 101.	3.1	65
104	Multi-objective heat transfer search algorithm for truss optimization. <i>Engineering With Computers</i> , 2021, 37, 641-662.	6.1	64
105	Partial derivative Nonlinear Global Pandemic Machine Learning prediction of COVID 19. <i>Chaos, Solitons and Fractals</i> , 2020, 139, 110056.	5.1	62
106	Combined heat and power economic dispatch by mesh adaptive direct search algorithm. <i>Expert Systems With Applications</i> , 2011, 38, 6556-6564.	7.6	61
107	Wind, Solar, and Photovoltaic Renewable Energy Systems with and without Energy Storage Optimization: A Survey of Advanced Machine Learning and Deep Learning Techniques. <i>Energies</i> , 2022, 15, 578.	3.1	61
108	Stress sensing performance using mechanoluminescence of SrAl ₂ O ₄ :Eu (SAOE) and SrAl ₂ O ₄ :Eu, Dy (SAOED) under mechanical loadings. <i>Smart Materials and Structures</i> , 2013, 22, 055006.	3.5	60

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109	Linear genetic programming for shear strength prediction of reinforced concrete beams without stirrups. Applied Soft Computing Journal, 2014, 19, 112-120.	7.2	60
110	Formulation of shear strength of slender RC beams using gene expression programming, part I: Without shear reinforcement. Automation in Construction, 2014, 42, 112-121.	9.8	59
111	Construction Cost Minimization of Shallow Foundation Using Recent Swarm Intelligence Techniques. IEEE Transactions on Industrial Informatics, 2018, 14, 1099-1106.	11.3	59
112	ELM-based adaptive neuro swarm intelligence techniques for predicting the California bearing ratio of soils in soaked conditions. Applied Soft Computing Journal, 2021, 110, 107595.	7.2	59
113	Genetic programming and orthogonal least squares: a hybrid approach to modeling the compressive strength of CFRP-confined concrete cylinders. Journal of Mechanics of Materials and Structures, 2010, 5, 735-753.	0.6	58
114	New prediction models for concrete ultimate strength under true-triaxial stress states: An evolutionary approach. Advances in Engineering Software, 2017, 110, 55-68.	3.8	58
115	Nature-Inspired Optimization Algorithms for Text Document Clustering—A Comprehensive Analysis. Algorithms, 2020, 13, 345.	2.1	58
116	Optimum design of frame structures using the Eagle Strategy with Differential Evolution. Engineering Structures, 2015, 91, 16-25.	5.3	57
117	Improved salient object detection using hybrid Convolution Recurrent Neural Network. Expert Systems With Applications, 2021, 166, 114064.	7.6	57
118	Evolutionary boundary constraint handling scheme. Neural Computing and Applications, 2012, 21, 1449-1462.	5.6	54
119	The Bat Algorithm, Variants and Some Practical Engineering Applications: A Review. Studies in Computational Intelligence, 2018, , 313-330.	0.9	54
120	Artificial Intelligence Applied to Stock Market Trading: A Review. IEEE Access, 2021, 9, 30898-30917.	4.2	54
121	LÃ©vy-Flight Krill Herd Algorithm. Mathematical Problems in Engineering, 2013, 2013, 1-14.	1.1	52
122	NEW DESIGN EQUATIONS FOR ELASTIC MODULUS OF CONCRETE USING MULTI EXPRESSION PROGRAMMING. Journal of Civil Engineering and Management, 2015, 21, 761-774.	3.5	51
123	Slope stability analysis using evolutionary optimization techniques. International Journal for Numerical and Analytical Methods in Geomechanics, 2017, 41, 251-264.	3.3	51
124	Meta-heuristic optimization algorithms for solving real-world mechanical engineering design problems: a comprehensive survey, applications, comparative analysis, and results. Neural Computing and Applications, 2022, 34, 4081-4110.	5.6	51
125	A Review on Traditional and Modern Structural Optimization. , 2013, , 25-47.		50
126	Optimization of retaining wall design using evolutionary algorithms. Structural and Multidisciplinary Optimization, 2017, 55, 809-825.	3.5	50

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127	Analysis and Prediction of COVID-19 Using SIR, SEIQR, and Machine Learning Models: Australia, Italy, and UK Cases. Information (Switzerland), 2021, 12, 109.	2.9	49
128	A Multi-Stage Krill Herd Algorithm for Global Numerical Optimization. International Journal on Artificial Intelligence Tools, 2016, 25, 1550030.	1.0	48
129	Krill herd algorithm for optimum design of truss structures. International Journal of Bio-Inspired Computation, 2013, 5, 281.	0.9	47
130	Development of prediction models for shear strength of SFRCB using a machine learning approach. Neural Computing and Applications, 2019, 31, 2085-2094.	5.6	46
131	An evolutionary approach to formulate the compressive strength of roller compacted concrete pavement. Measurement: Journal of the International Measurement Confederation, 2020, 152, 107309.	5.0	46
132	Lightning search algorithm: a comprehensive survey. Applied Intelligence, 2021, 51, 2353-2376.	5.3	46
133	New Ground-Motion Prediction Equations Using Multi Expression Programming. Journal of Earthquake Engineering, 2011, 15, 511-536.	2.5	45
134	Evolutionary modelling of the COVID-19 pandemic in fifteen most affected countries. Chaos, Solitons and Fractals, 2020, 140, 110118.	5.1	45
135	Genetic prediction of ICU hospitalization and mortality in COVID-19 patients using artificial neural networks. Journal of Cellular and Molecular Medicine, 2022, 26, 1445-1455.	3.6	45
136	Coagulation modeling using artificial neural networks to predict both turbidity and DOM-PARAFAC component removal. Journal of Environmental Chemical Engineering, 2015, 3, 2829-2838.	6.7	44
137	Slope stability analyzing using recent swarm intelligence techniques. International Journal for Numerical and Analytical Methods in Geomechanics, 2015, 39, 295-309.	3.3	44
138	Probabilistic neural networks. , 2020, , 347-367.		44
139	Genetic-based modeling of uplift capacity of suction caissons. Expert Systems With Applications, 2011, 38, 12608-12618.	7.6	43
140	R-CNN and wavelet feature extraction for hand gesture recognition with EMG signals. Neural Computing and Applications, 2020, 32, 16723-16736.	5.6	43
141	A robust drug recall supply chain management system using hyperledger blockchain ecosystem. Computers in Biology and Medicine, 2022, 140, 105100.	7.0	43
142	New Formulation of Compressive Strength of Preformed-Foam Cellular Concrete: An Evolutionary Approach. Journal of Materials in Civil Engineering, 2016, 28, .	2.9	42
143	Building energy consumption forecast using multi-objective genetic programming. Measurement: Journal of the International Measurement Confederation, 2018, 118, 164-171.	5.0	42
144	Hash polynomial two factor decision tree using IoT for smart health care scheduling. Expert Systems With Applications, 2020, 141, 112924.	7.6	42

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145	Self adaptive cuckoo search: Analysis and experimentation. Swarm and Evolutionary Computation, 2021, 60, 100751.	8.1	41
146	Formulation of elastic modulus of concrete using linear genetic programming. Journal of Mechanical Science and Technology, 2010, 24, 1273-1278.	1.5	40
147	Formulation of shear strength of slender RC beams using gene expression programming, part II: With shear reinforcement. Measurement: Journal of the International Measurement Confederation, 2017, 95, 367-376.	5.0	40
148	Authentication and Key Management in Distributed IoT Using Blockchain Technology. IEEE Internet of Things Journal, 2021, 8, 12947-12954.	8.7	40
149	Ensemble Classification and IoT-Based Pattern Recognition for Crop Disease Monitoring System. IEEE Internet of Things Journal, 2021, 8, 12847-12854.	8.7	40
150	Human Inertial Thinking Strategy: A Novel Fuzzy Reasoning Mechanism for IoT-Assisted Visual Monitoring. IEEE Internet of Things Journal, 2023, 10, 3735-3748.	8.7	40
151	An empirical model for shear capacity of RC deep beams using genetic-simulated annealing. Archives of Civil and Mechanical Engineering, 2013, 13, 354-369.	3.8	39
152	Particle Swarm Optimization Variants for Solving Geotechnical Problems: Review and Comparative Analysis. Archives of Computational Methods in Engineering, 2021, 28, 1871-1927.	10.2	39
153	Recent Advances in Harris Hawks Optimization: A Comparative Study and Applications. Electronics (Switzerland), 2022, 11, 1919.	3.1	37
154	Nonlinear neural-based modeling of soil cohesion intercept. KSCE Journal of Civil Engineering, 2011, 15, 831-840.	1.9	36
155	Simple yet accurate prediction method for sublimation enthalpies of organic contaminants using their molecular structure. Thermochemica Acta, 2012, 543, 96-106.	2.7	36
156	Prediction of peak ground acceleration of Iran's tectonic regions using a hybrid soft computing technique. Geoscience Frontiers, 2016, 7, 75-82.	8.4	36
157	A New Pythagorean Fuzzy Based Decision Framework for Assessing Healthcare Waste Treatment. IEEE Transactions on Engineering Management, 2022, 69, 2915-2929.	3.5	36
158	Decision Tree Approach for Soil Liquefaction Assessment. Scientific World Journal, The, 2013, 2013, 1-8.	2.1	35
159	Behavior appraisal of steel semi-rigid joints using Linear Genetic Programming. Journal of Constructional Steel Research, 2009, 65, 1738-1750.	3.9	34
160	AN INTRODUCTION OF KRILL HERD ALGORITHM FOR ENGINEERING OPTIMIZATION. Journal of Civil Engineering and Management, 2015, 22, 302-310.	3.5	34
161	A Comprehensive Review and Analysis of Operating Room and Surgery Scheduling. Archives of Computational Methods in Engineering, 2021, 28, 1667-1688.	10.2	34
162	Scheduling by NSGA-II: Review and Bibliometric Analysis. Processes, 2022, 10, 98.	2.8	34

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163	Prediction of maximum dry density and optimum moisture content of stabilised soil using RBF neural networks. IES Journal Part A: Civil and Structural Engineering, 2009, 2, 98-106.	0.4	33
164	Short-term load forecasting of power systems by gene expression programming. Neural Computing and Applications, 2012, 21, 377-389.	5.6	33
165	Beam damage detection using synchronisation of peaks in instantaneous frequency and amplitude of vibration data. Measurement: Journal of the International Measurement Confederation, 2021, 168, 108297.	5.0	33
166	Modeling of compressive strength of HPC mixes using a combined algorithm of genetic programming and orthogonal least squares. Structural Engineering and Mechanics, 2010, 36, 225-241.	1.0	33
167	Machine Learning Technologies for Big Data Analytics. Electronics (Switzerland), 2022, 11, 421.	3.1	33
168	Retaining wall optimization using interior search algorithm with different bound constraint handling. International Journal for Numerical and Analytical Methods in Geomechanics, 2017, 41, 1304-1331.	3.3	32
169	Formulation of uplift capacity of suction caissons using multi expression programming. KSCE Journal of Civil Engineering, 2011, 15, 363-373.	1.9	31
170	Analysis of high-dimensional genomic data using MapReduce based probabilistic neural network. Computer Methods and Programs in Biomedicine, 2020, 195, 105625.	4.7	31
171	Prediction error of Johansen cointegration residuals for structural health monitoring. Mechanical Systems and Signal Processing, 2021, 160, 107847.	8.0	31
172	Multiview Summarization and Activity Recognition Meet Edge Computing in IoT Environments. IEEE Internet of Things Journal, 2021, 8, 9634-9644.	8.7	30
173	Structural health monitoring under environmental and operational variations using MCD prediction error. Journal of Sound and Vibration, 2021, 512, 116370.	3.9	30
174	Numerical modeling of concrete strength under multiaxial confinement pressures using linear genetic programming. Automation in Construction, 2013, 36, 136-144.	9.8	29
175	Automating pseudo-static analysis of concrete cantilever retaining wall using evolutionary algorithms. Measurement: Journal of the International Measurement Confederation, 2018, 115, 104-124.	5.0	29
176	TBM performance prediction developing a hybrid ANFIS-PNN predictive model optimized by imperialism competitive algorithm. Neural Computing and Applications, 2021, 33, 16149-16179.	5.6	29
177	Radiology Imaging Scans for Early Diagnosis of Kidney Tumors: A Review of Data Analytics-Based Machine Learning and Deep Learning Approaches. Big Data and Cognitive Computing, 2022, 6, 29.	4.7	29
178	A deep neural network based classifier for brain tumor diagnosis. Applied Soft Computing Journal, 2019, 82, 105528.	7.2	28
179	Improving End-Users Utility in Software-Defined Wide Area Network Systems. IEEE Transactions on Network and Service Management, 2020, 17, 696-707.	4.9	28
180	Privacy-preserving in association rule mining using an improved discrete binary artificial bee colony. Expert Systems With Applications, 2020, 144, 113097.	7.6	27

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181	SDCF: A Software-Defined Cyber Foraging Framework for Cloudlet Environment. IEEE Transactions on Network and Service Management, 2020, 17, 2423-2435.	4.9	27
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