

Whale optimization approaches for wrapper feature selection

Applied Soft Computing Journal

62, 441-453

DOI: [10.1016/j.asoc.2017.11.006](https://doi.org/10.1016/j.asoc.2017.11.006)

Citation Report

#	ARTICLE	IF	CITATIONS
1	An Effective Two-Stage Feature Selection Method with Parameters Optimized by Simulated Annealing Algorithm. , 2018, , .		0
2	Whale Optimization Algorithm for High-dimensional Small-Instance Feature Selection. , 2018, , .		4
3	Identification of opinion leader in online social network using fuzzy trust system. , 2018, , .		5
4	Wrapper Feature Selection Based on Lightning Attachment Procedure Optimization and Support Vector Machine for Intrusion Detection. , 2018, , .		10
5	Feature Selection for High Dimensional Data Using Monte Carlo Tree Search. IEEE Access, 2018, 6, 76036-76048.	2.6	17
6	Implementation of whale optimization algorithm for handwriting representation. AIP Conference Proceedings, 2018, , .	0.3	0
7	A Mixed-Strategy-Based Whale Optimization Algorithm for Parameter Identification of Hydraulic Turbine Governing Systems with a Delayed Water Hammer Effect. Energies, 2018, 11, 2367.	1.6	12
8	Energy-Efficient Scheduling for a Job Shop Using an Improved Whale Optimization Algorithm. Mathematics, 2018, 6, 220.	1.1	57
9	Representative Band Selection for Hyperspectral Image Classification. ISPRS International Journal of Geo-Information, 2018, 7, 338.	1.4	46
10	Feature Selection Using Salp Swarm Algorithm with Chaos. , 2018, , .		56
11	Rank based binary particle swarm optimisation for feature selection in classification. , 2018, , .		13
12	Feature selection using binary particle swarm optimization with time varying inertia weight strategies. , 2018, , .		48
13	Training neural networks using Salp Swarm Algorithm for pattern classification. , 2018, , .		36
14	A hybrid gene selection method for microarray recognition. Biocybernetics and Biomedical Engineering, 2018, 38, 975-991.	3.3	58
15	Application and Development of Enhanced Chaotic Grasshopper Optimization Algorithms. Modelling and Simulation in Engineering, 2018, 2018, 1-14.	0.4	34
16	Binary dragonfly optimization for feature selection using time-varying transfer functions. Knowledge-Based Systems, 2018, 161, 185-204.	4.0	318
17	A hybrid model integrating improved flower pollination algorithm-based feature selection and improved random forest for NO X emission estimation of coal-fired power plants. Measurement: Journal of the International Measurement Confederation, 2018, 125, 303-312.	2.5	25
18	Overview on last advances of feature selection. , 2018, , .		1

#	ARTICLE	IF	CITATIONS
19	Hybrid binary ant lion optimizer with rough set and approximate entropy reducts for feature selection. <i>Soft Computing</i> , 2019, 23, 6249-6265.	2.1	112
20	Improved Competitive Swarm Optimization Algorithms for Feature Selection. , 2019, , .		1
21	Intelligent skin cancer diagnosis using improved particle swarm optimization and deep learning models. <i>Applied Soft Computing Journal</i> , 2019, 84, 105725.	4.1	92
22	A robust swarm intelligence-based feature selection model for neuro-fuzzy recognition of mild cognitive impairment from resting-state fMRI. <i>Information Sciences</i> , 2019, 503, 670-687.	4.0	32
23	On Some Improved Versions of Whale Optimization Algorithm. <i>Arabian Journal for Science and Engineering</i> , 2019, 44, 9653-9691.	1.7	49
24	A demand side management control strategy using Whale optimization algorithm. <i>SN Applied Sciences</i> , 2019, 1, 1.	1.5	37
25	A new hybrid wrapper TLBO and SA with SVM approach for gene expression data. <i>Information Sciences</i> , 2019, 503, 238-254.	4.0	72
26	A Brief Survey on Nature-Inspired Metaheuristics for Feature Selection in Classification in this Decade. , 2019, , .		26
27	A Cost-Sensitive Feature Selection Method for High-Dimensional Data. , 2019, , .		3
28	Combined pulsed laser drilling of metal by continuous wave laser and nanosecond pulse train. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 104, 1269-1274.	1.5	16
29	Beta Distribution-Based Cross-Entropy for Feature Selection. <i>Entropy</i> , 2019, 21, 769.	1.1	2
30	Hybrid Binary Bat Algorithm with Cross-Entropy Method for Feature Selection. , 2019, , .		6
31	A Novel Hybrid Prediction Model for Hourly Gas Consumption in Supply Side Based on Improved Whale Optimization Algorithm and Relevance Vector Machine. <i>IEEE Access</i> , 2019, 7, 88218-88230.	2.6	117
32	A survey on new generation metaheuristic algorithms. <i>Computers and Industrial Engineering</i> , 2019, 137, 106040.	3.4	510
33	Feature selection: Comparative Analysis of Binary Metaheuristics and Population Based Algorithm with Adaptive Memory. <i>Programming and Computer Software</i> , 2019, 45, 221-227.	0.5	5
34	Frequency based feature selection method using whale algorithm. <i>Genomics</i> , 2019, 111, 1946-1955.	1.3	49
35	A novel methodology for optimal single mobile robot scheduling using whale optimization algorithm. <i>Applied Soft Computing Journal</i> , 2019, 81, 105520.	4.1	47
36	Spotted Hyena Optimization Algorithm With Simulated Annealing for Feature Selection. <i>IEEE Access</i> , 2019, 7, 71943-71962.	2.6	62

#	ARTICLE	IF	CITATIONS
37	Feature selection for facial emotion recognition using late hill-climbing based memetic algorithm. Multimedia Tools and Applications, 2019, 78, 25753-25779.	2.6	34
38	Texture classification using convolutional neural network optimized with whale optimization algorithm. SN Applied Sciences, 2019, 1, 1.	1.5	33
39	An evolutionary gravitational search-based feature selection. Information Sciences, 2019, 497, 219-239.	4.0	175
40	A novel non-linear combination system for short-term wind speed forecast. Renewable Energy, 2019, 143, 1172-1192.	4.3	51
41	A hybrid framework for optimal feature subset selection. Journal of Intelligent and Fuzzy Systems, 2019, 36, 2247-2259.	0.8	28
42	A hybrid of whale optimization and late acceptance hill climbing based imputation to enhance classification performance in electronic health records. Journal of Biomedical Informatics, 2019, 94, 103190.	2.5	12
43	Novel framework for image attribute annotation with gene selection XGBoost algorithm and relative attribute model. Applied Soft Computing Journal, 2019, 80, 57-79.	4.1	38
44	A comprehensive survey: Whale Optimization Algorithm and its applications. Swarm and Evolutionary Computation, 2019, 48, 1-24.	4.5	428
45	Classification of high dimensional biomedical data based on feature selection using redundant removal. PLoS ONE, 2019, 14, e0214406.	1.1	21
46	An Improved Rough Set Theory based Feature Selection Approach for Intrusion Detection in SCADA Systems. Journal of Intelligent and Fuzzy Systems, 2019, 36, 3993-4003.	0.8	11
47	A New Hybrid Algorithm Based on Grey Wolf Optimization and Crow Search Algorithm for Unconstrained Function Optimization and Feature Selection. IEEE Access, 2019, 7, 26343-26361.	2.6	171
48	Whale optimisation algorithm tuned fractional order PI<sup align="right">1</sup>D<sup align="right">1/4</sup> controller for load frequency control of multi-source power system. International Journal of Bio-Inspired Computation, 2019, 13, 209.	0.6	5
49	Case Study: Knowledge Discovery Process using Computation Intelligence with Feature Selection Approach. , 2019, , .		2
50	A Combined Optimization Structure of Adaptive Neuro-fuzzy Inference System for Probabilistic Photovoltaic Power Forecasting. , 2019, , .		1
51	A Hybrid Memetic Algorithm for Simultaneously Selecting Features and Instances in Big Industrial IoT Data for Predictive Maintenance. , 2019, , .		1
52	Mini-Batch Normalized Mutual Information: A Hybrid Feature Selection Method. IEEE Access, 2019, 7, 116875-116885.	2.6	25
53	A New Feature Selection Method based on Monarch Butterfly Optimization and Fisher Criterion. , 2019, , .		1
54	Wrapper-based Feature Selection for Imbalanced Data using Binary Queuing Search Algorithm. , 2019, , .		13

#	ARTICLE	IF	CITATIONS
55	Modified Search Strategies Assisted Crossover Whale Optimization Algorithm with Selection Operator for Parameter Extraction of Solar Photovoltaic Models. <i>Remote Sensing</i> , 2019, 11, 2795.	1.8	28
56	Gaussian Quantum Bat Algorithm with Direction of Mean Best Position for Numerical Function Optimization. <i>Computational Intelligence and Neuroscience</i> , 2019, 2019, 1-18.	1.1	7
57	Binary butterfly optimization approaches for feature selection. <i>Expert Systems With Applications</i> , 2019, 116, 147-160.	4.4	307
58	An adaptive memetic algorithm for feature selection using proximity graphs. <i>Computational Intelligence</i> , 2019, 35, 156-183.	2.1	7
59	Feature selection based on artificial bee colony and gradient boosting decision tree. <i>Applied Soft Computing Journal</i> , 2019, 74, 634-642.	4.1	384
60	A Novel Hybrid Algorithm for Feature Selection Based on Whale Optimization Algorithm. <i>IEEE Access</i> , 2019, 7, 14908-14923.	2.6	73
61	Structural damage detection using imperialist competitive algorithm and damage function. <i>Applied Soft Computing Journal</i> , 2019, 77, 1-23.	4.1	28
62	Novel analysisâ€œforecast system based on multi-objective optimization for air quality index. <i>Journal of Cleaner Production</i> , 2019, 208, 1365-1383.	4.6	95
63	Brain storm-based Whale Optimization Algorithm for privacy-protected data publishing in cloud computing. <i>Cluster Computing</i> , 2019, 22, 3521-3530.	3.5	20
64	Adaptive optimal multi key based encryption for digital image security. <i>Concurrency Computation Practice and Experience</i> , 2020, 32, e5122.	1.4	21
65	Nature-Inspired Optimizers. <i>Studies in Computational Intelligence</i> , 2020, , .	0.7	58
66	Evolutionary Multi-objective Whale Optimization Algorithm. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 431-446.	0.5	6
67	A wrapper-filter feature selection technique based on ant colony optimization. <i>Neural Computing and Applications</i> , 2020, 32, 7839-7857.	3.2	105
68	A novel chaotic selfish herd optimizer for global optimization and feature selection. <i>Artificial Intelligence Review</i> , 2020, 53, 1441-1486.	9.7	27
69	Dragonfly Algorithm: Theory, Literature Review, and Application in Feature Selection. <i>Studies in Computational Intelligence</i> , 2020, , 47-67.	0.7	42
70	Multi-verse Optimizer: Theory, Literature Review, and Application in Data Clustering. <i>Studies in Computational Intelligence</i> , 2020, , 123-141.	0.7	48
71	Salp Swarm Algorithm: Theory, Literature Review, and Application in Extreme Learning Machines. <i>Studies in Computational Intelligence</i> , 2020, , 185-199.	0.7	71
72	Whale Optimization Algorithm: Theory, Literature Review, and Application in Designing Photonic Crystal Filters. <i>Studies in Computational Intelligence</i> , 2020, , 219-238.	0.7	51

#	ARTICLE	IF	CITATIONS
73	Multi-target QSAR modelling of chemo-genomic data analysis based on Extreme Learning Machine. Knowledge-Based Systems, 2020, 188, 104977.	4.0	26
74	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
75	Opinion leader detection using whale optimization algorithm in online social network. Expert Systems With Applications, 2020, 142, 113016.	4.4	59
76	An efficient double adaptive random spare reinforced whale optimization algorithm. Expert Systems With Applications, 2020, 154, 113018.	4.4	130
77	A novel parameter estimation in dynamic model via fuzzy swarm intelligence and chaos theory for faults in wastewater treatment plant. Soft Computing, 2020, 24, 111-129.	2.1	32
78	Feature selection based on rough set approach, wrapper approach, and binary whale optimization algorithm. International Journal of Machine Learning and Cybernetics, 2020, 11, 573-602.	2.3	64
79	Efficient Hybrid Nature-Inspired Binary Optimizers for Feature Selection. Cognitive Computation, 2020, 12, 150-175.	3.6	99
80	A new fusion of grey wolf optimizer algorithm with a two-phase mutation for feature selection. Expert Systems With Applications, 2020, 139, 112824.	4.4	215
81	Time-varying hierarchical chains of salps with random weight networks for feature selection. Expert Systems With Applications, 2020, 140, 112898.	4.4	75
82	An evolutionary computation-based approach for feature selection. Journal of Ambient Intelligence and Humanized Computing, 2020, 11, 3757-3769.	3.3	26
83	Parasitism " Predation algorithm (PPA): A novel approach for feature selection. Ain Shams Engineering Journal, 2020, 11, 293-308.	3.5	49
84	Self-adaptive parameter and strategy based particle swarm optimization for large-scale feature selection problems with multiple classifiers. Applied Soft Computing Journal, 2020, 88, 106031.	4.1	105
85	Optimum design of seismic isolation systems using metaheuristic search methods. Soil Dynamics and Earthquake Engineering, 2020, 131, 106012.	1.9	22
86	Short-term natural gas consumption prediction based on Volterra adaptive filter and improved whale optimization algorithm. Engineering Applications of Artificial Intelligence, 2020, 87, 103323.	4.3	157
87	Enhanced whale optimization algorithm for maximum power point tracking of variable-speed wind generators. Applied Soft Computing Journal, 2020, 86, 105937.	4.1	64
89	Local feature selection based on artificial immune system for classification. Applied Soft Computing Journal, 2020, 87, 105989.	4.1	34
90	Improved Salp Swarm Algorithm based on opposition based learning and novel local search algorithm for feature selection. Expert Systems With Applications, 2020, 145, 113122.	4.4	250
91	Boosting salp swarm algorithm by sine cosine algorithm and disrupt operator for feature selection. Expert Systems With Applications, 2020, 145, 113103.	4.4	146

#	ARTICLE	IF	CITATIONS
92	An Improved Hybrid Feature Selection Algorithm for Electric Charge Recovery Risk. <i>Mathematical Problems in Engineering</i> , 2020, 2020, 1-18.	0.6	1
93	Multiobjective feature selection for key quality characteristic identification in production processes using a nondominated-sorting-based whale optimization algorithm. <i>Computers and Industrial Engineering</i> , 2020, 149, 106852.	3.4	19
94	ESSAWOA: Enhanced Whale Optimization Algorithm integrated with Salp Swarm Algorithm for global optimization. <i>Engineering With Computers</i> , 2022, 38, 797-814.	3.5	34
95	Global search in single-solution-based metaheuristics. <i>Data Technologies and Applications</i> , 2020, 54, 275-296.	0.9	8
96	Research on New Adaptive Whale Algorithm. <i>IEEE Access</i> , 2020, 8, 90165-90201.	2.6	14
97	Embedded chaotic whale survival algorithm for filter wrapper feature selection. <i>Soft Computing</i> , 2020, 24, 12821-12843.	2.1	48
98	Feature Selection of BOF Steelmaking Process Data Based on Denary Salp Swarm Algorithm. <i>Arabian Journal for Science and Engineering</i> , 2020, 45, 10401-10416.	1.7	5
99	A novel hybrid feature selection and modified KNN prediction model for coal and gas outbursts. <i>Journal of Intelligent and Fuzzy Systems</i> , 2020, 39, 7671-7691.	0.8	4
100	Whale optimization algorithm based on nonlinear convergence factor and chaotic inertial weight. <i>Concurrency Computation Practice and Experience</i> , 2020, 32, e5949.	1.4	30
101	Integration of multi-objective PSO based feature selection and node centrality for medical datasets. <i>Genomics</i> , 2020, 112, 4370-4384.	1.3	119
102	Novel Swarm Intelligence Algorithm for Global Optimization and Multi-UAVs Cooperative Path Planning: Anas Platyrhynchos Optimizer. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4821.	1.3	6
103	A Hybrid Feature Selection Approach Using Artificial Bee Colony and Genetic Algorithm. , 2020, , .		6
104	An Improved Harris Hawks Optimization Algorithm With Simulated Annealing for Feature Selection in the Medical Field. <i>IEEE Access</i> , 2020, 8, 186638-186652.	2.6	93
105	Binary JAYA Algorithm with Adaptive Mutation for Feature Selection. <i>Arabian Journal for Science and Engineering</i> , 2020, 45, 10875-10890.	1.7	39
106	Multi-Population Genetic Algorithm for Multilabel Feature Selection Based on Label Complementary Communication. <i>Entropy</i> , 2020, 22, 876.	1.1	12
107	EHHM: Electrical Harmony Based Hybrid Meta-Heuristic for Feature Selection. <i>IEEE Access</i> , 2020, 8, 158125-158141.	2.6	22
108	FS-MOEA: A Novel Feature Selection Algorithm for IDSs in Vehicular Networks. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022, 23, 368-382.	4.7	7
109	Swarm Intelligence Based Feature Selection for Intrusion and Detection System in Cloud Infrastructure. , 2020, , .		14

#	ARTICLE	IF	CITATIONS
110	Intelligent system for feature selection based on rough set and chaotic binary grey wolf optimisation. <i>International Journal of Computer Applications in Technology</i> , 2020, 63, 4.	0.3	16
111	Monte Carlo Tree Search-Based Recursive Algorithm for Feature Selection in High-Dimensional Datasets. <i>Entropy</i> , 2020, 22, 1093.	1.1	1
112	Energy-aware whale optimization algorithm for real-time task scheduling in multiprocessor systems. <i>Applied Soft Computing Journal</i> , 2020, 93, 106349.	4.1	36
113	Efficient Multi-Swarm Binary Harris Hawks Optimization as a Feature Selection Approach for Software Fault Prediction. , 2020, , .		15
114	Effects of Random Forest Parameters in the Selection of Biomarkers. <i>Computer Journal</i> , 2020, , .	1.5	2
115	Using Hybrid Filter-Wrapper Feature Selection With Multi-Objective Improved-Salp Optimization for Crack Severity Recognition. <i>IEEE Access</i> , 2020, 8, 84290-84315.	2.6	21
116	A novel hybrid feature selection method based on dynamic feature importance. <i>Applied Soft Computing Journal</i> , 2020, 93, 106337.	4.1	74
117	NEC: A nested equivalence class-based dependency calculation approach for fast feature selection using rough set theory. <i>Information Sciences</i> , 2020, 536, 431-453.	4.0	9
118	Multidimensional Meteorological Variables for Wind Speed Forecasting in Qinghai Region of China: A Novel Approach. <i>Advances in Meteorology</i> , 2020, 2020, 1-19.	0.6	1
119	Robust multi-label feature selection with dual-graph regularization. <i>Knowledge-Based Systems</i> , 2020, 203, 106126.	4.0	39
120	Binary coyote optimization algorithm for feature selection. <i>Pattern Recognition</i> , 2020, 107, 107470.	5.1	58
121	Enhanced Crow Search Algorithm for Feature Selection. <i>Expert Systems With Applications</i> , 2020, 159, 113572.	4.4	57
122	An improved Dragonfly Algorithm for feature selection. <i>Knowledge-Based Systems</i> , 2020, 203, 106131.	4.0	131
123	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
124	Hybrid binary Sine Cosine Algorithm and Ant Lion Optimization (SCALO) approaches for feature selection problem. <i>International Journal of Computational Materials Science and Engineering</i> , 2020, 09, 1950021.	0.5	6
125	A hybrid grasshopper and new cat swarm optimization algorithm for feature selection and optimization of multi-layer perceptron. <i>Soft Computing</i> , 2020, 24, 15463-15489.	2.1	28
126	A review of data replication based on meta-heuristics approach in cloud computing and data grid. <i>Soft Computing</i> , 2020, 24, 14503-14530.	2.1	25
127	Whale optimization algorithm: a systematic review of contemporary applications, modifications and developments. <i>Neural Computing and Applications</i> , 2020, 32, 16245-16277.	3.2	155

#	ARTICLE	IF	CITATIONS
128	Multi-Strategy Ensemble Whale Optimization Algorithm and Its Application to Analog Circuits Intelligent Fault Diagnosis. Applied Sciences (Switzerland), 2020, 10, 3667.	1.3	18
129	EvoPreprocessâ€”Data Preprocessing Framework with Nature-Inspired Optimization Algorithms. Mathematics, 2020, 8, 900.	1.1	7
130	Accelerating information entropy-based feature selection using rough set theory with classified nested equivalence classes. Pattern Recognition, 2020, 107, 107517.	5.1	39
131	Improved Harris Hawks Optimization Using Elite Opposition-Based Learning and Novel Search Mechanism for Feature Selection. IEEE Access, 2020, 8, 121127-121145.	2.6	85
132	An Author Gender Detection Method Using Whale Optimization Algorithm and Artificial Neural Network. IEEE Access, 2020, 8, 48428-48437.	2.6	19
133	An Enhancement in Cancer Classification Accuracy Using a Two-Step Feature Selection Method Based on Artificial Neural Networks with 15 Neurons. Symmetry, 2020, 12, 271.	1.1	17
134	A hybrid quantum feature selection algorithm using a quantum inspired graph theoretic approach. Applied Intelligence, 2020, 50, 1775-1793.	3.3	18
135	A Novel Chaotic Interior Search Algorithm for Global Optimization and Feature Selection. Applied Artificial Intelligence, 2020, 34, 292-328.	2.0	37
136	Quantum based Whale Optimization Algorithm for wrapper feature selection. Applied Soft Computing Journal, 2020, 89, 106092.	4.1	114
137	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
138	FRIEND: Feature selection on inconsistent data. Neurocomputing, 2020, 391, 52-64.	3.5	4
139	Handwritten Arabic Optical Character Recognition Approach Based on Hybrid Whale Optimization Algorithm With Neighborhood Rough Set. IEEE Access, 2020, 8, 23011-23021.	2.6	29
140	Feature Selection for Facial Emotion Recognition Using Cosine Similarity-Based Harmony Search Algorithm. Applied Sciences (Switzerland), 2020, 10, 2816.	1.3	42
141	Improved Binary Sailfish Optimizer Based on Adaptive \hat{I}^2 -Hill Climbing for Feature Selection. IEEE Access, 2020, 8, 83548-83560.	2.6	80
142	Hybridizing genetic algorithm and grey wolf optimizer to advance an intelligent and lightweight intrusion detection system for IoT wireless networks. Journal of Ambient Intelligence and Humanized Computing, 2020, 11, 5581-5609.	3.3	54
143	OEBBOA: A Novel Improved Binary Butterfly Optimization Approaches With Various Strategies for Feature Selection. IEEE Access, 2020, 8, 67799-67812.	2.6	17
144	Multi-label feature selection with shared common mode. Pattern Recognition, 2020, 104, 107344.	5.1	46
145	Robustness Assessment of Automatic Reinkeâ€™s Edema Diagnosis Systems. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
146	A hybrid Harris Hawks optimization algorithm with simulated annealing for feature selection. <i>Artificial Intelligence Review</i> , 2021, 54, 593-637.	9.7	104
147	A new and fast rival genetic algorithm for feature selection. <i>Journal of Supercomputing</i> , 2021, 77, 2844-2874.	2.4	44
148	A hybrid mine blast algorithm for feature selection problems. <i>Soft Computing</i> , 2021, 25, 517-534.	2.1	49
149	Volcano eruption algorithm for solving optimization problems. <i>Neural Computing and Applications</i> , 2021, 33, 2321-2337.	3.2	17
150	A Comprehensive Analysis of Nature-Inspired Meta-Heuristic Techniques for Feature Selection Problem. <i>Archives of Computational Methods in Engineering</i> , 2021, 28, 1103-1127.	6.0	143
151	Whale Optimisation Algorithm for high-dimensional small-instance feature selection. <i>International Journal of Parallel, Emergent and Distributed Systems</i> , 2021, 36, 80-96.	0.7	23
152	Improved coral reefs optimization with adaptive η -hill climbing for feature selection. <i>Neural Computing and Applications</i> , 2021, 33, 6467-6486.	3.2	13
153	A Hyper Learning Binary Dragonfly Algorithm for Feature Selection: A COVID-19 Case Study. <i>Knowledge-Based Systems</i> , 2021, 212, 106553.	4.0	112
154	Automatic feature scaling and selection for support vector machine classification with functional data. <i>Applied Intelligence</i> , 2021, 51, 161-184.	3.3	7
155	Dynamic Salp swarm algorithm for feature selection. <i>Expert Systems With Applications</i> , 2021, 164, 113873.	4.4	133
156	Development of a portable electronic nose based on a hybrid filter-wrapper method for identifying the Chinese dry-cured ham of different grades. <i>Journal of Food Engineering</i> , 2021, 290, 110250.	2.7	26
157	Explicit aspects extraction in sentiment analysis using optimal rules combination. <i>Future Generation Computer Systems</i> , 2021, 114, 448-480.	4.9	27
158	Proportionalâ€integralâ€derivative optimization algorithm for double-fed induction generator with the maximum wind power tracking technique. <i>Soft Computing</i> , 2021, 25, 3097-3111.	2.1	3
159	Feature selection by using chaotic cuckoo optimization algorithm with levy flight, opposition-based learning and disruption operator. <i>Soft Computing</i> , 2021, 25, 2911-2933.	2.1	41
160	Optimization of load sharing for parallel compressors using a novel hybrid intelligent algorithm. <i>Energy Science and Engineering</i> , 2021, 9, 330-342.	1.9	8
161	Multi-label feature selection with constraint regression and adaptive spectral graph. <i>Knowledge-Based Systems</i> , 2021, 212, 106621.	4.0	20
162	A hybrid feature selection method based on information theory and binary butterfly optimization algorithm. <i>Engineering Applications of Artificial Intelligence</i> , 2021, 97, 104079.	4.3	88
163	Feature selection using Binary Crow Search Algorithm with time varying flight length. <i>Expert Systems With Applications</i> , 2021, 168, 114288.	4.4	64

#	ARTICLE	IF	CITATIONS
164	Orthogonal learning covariance matrix for defects of grey wolf optimizer: Insights, balance, diversity, and feature selection. Knowledge-Based Systems, 2021, 213, 106684.	4.0	223
165	A novel hybrid whale optimization algorithm with flower pollination algorithm for feature selection: Case study Email spam detection. Computational Intelligence, 2021, 37, 176-209.	2.1	74
166	Bio-inspired Algorithms for Data Streaming and Visualization, Big Data Management, and Fog Computing. Springer Tracts in Nature-inspired Computing, 2021, , .	1.2	1
167	Binary η -hill climbing optimizer with S-shape transfer function for feature selection. Journal of Ambient Intelligence and Humanized Computing, 2021, 12, 7637-7665.	3.3	20
168	A novel hybrid BPSO $\hat{=}$ SCA approach for feature selection. Natural Computing, 2021, 20, 39-61.	1.8	30
169	Computer Decision Support System for Skin Cancer Localization and Classification. Computers, Materials and Continua, 2021, 68, 1041-1064.	1.5	19
170	Medical Feature Selection Approach Based on Generalized Normal Distribution Algorithm. Computers, Materials and Continua, 2021, 69, 2883-2901.	1.5	4
171	A Fast Hybrid Feature Selection Based on Correlation-Guided Clustering and Particle Swarm Optimization for High-Dimensional Data. IEEE Transactions on Cybernetics, 2022, 52, 9573-9586.	6.2	120
172	Boosted Whale Optimization Algorithm With Natural Selection Operators for Software Fault Prediction. IEEE Access, 2021, 9, 14239-14258.	2.6	39
173	A Novel Auction-Based Optimization Algorithm and Its Application in Rough Set Feature Selection. IEEE Access, 2021, 9, 106501-106514.	2.6	6
174	Improving whale optimization algorithm for feature selection with a time-varying transfer function. Numerical Algebra, Control and Optimization, 2021, 11, 87.	1.0	18
175	Metric and Accuracy Ranked Feature Inclusion: Hybrids of Filter and Wrapper Feature Selection Approaches. IEEE Access, 2021, 9, 128687-128701.	2.6	12
176	A Novel Hybrid Feature Selection and Ensemble Learning Framework for Unbalanced Cancer Data Diagnosis With Transcriptome and Functional Proteomic. IEEE Access, 2021, 9, 51659-51668.	2.6	6
177	A General Framework for Feature Selection Under Orthogonal Regression With Global Redundancy Minimization. IEEE Transactions on Knowledge and Data Engineering, 2022, 34, 5056-5069.	4.0	13
178	Swarm Intelligence-Based Feature Selection: An Improved Binary Grey Wolf $\hat{=}$ Optimization Method. Lecture Notes in Computer Science, 2021, , 98-110.	1.0	2
179	An Efficient Marine Predators Algorithm for Feature Selection. IEEE Access, 2021, 9, 60136-60153.	2.6	75
180	Teaching Learning-Based Optimization With Evolutionary Binarization Schemes for Tackling Feature Selection Problems. IEEE Access, 2021, 9, 41082-41103.	2.6	14
181	Hybrid artificial intelligence models for predicting daily runoff. , 2021, , 305-329.		3

#	ARTICLE	IF	CITATIONS
182	An efficient binary chaotic symbiotic organisms search algorithm approaches for feature selection problems. <i>Journal of Supercomputing</i> , 2021, 77, 9102-9144.	2.4	43
183	A noise-aware feature selection approach for classification. <i>Soft Computing</i> , 2021, 25, 6391-6400.	2.1	7
184	Improved Whale Optimization Algorithm for Solving Constrained Optimization Problems. <i>Discrete Dynamics in Nature and Society</i> , 2021, 2021, 1-13.	0.5	29
185	A machine learning method based on the genetic and world competitive contests algorithms for selecting genes or features in biological applications. <i>Scientific Reports</i> , 2021, 11, 3349.	1.6	13
186	Optimized hybrid investigative based dimensionality reduction methods for malaria vector using KNN classifier. <i>Journal of Big Data</i> , 2021, 8, .	6.9	19
187	Alleviating NB conditional independence using Multi-stage variable selection(MSVS): Banking customer dataset application. <i>Journal of Physics: Conference Series</i> , 2021, 1767, 012002.	0.3	4
188	Feature Selection Using Enhanced Particle Swarm Optimisation for Classification Models. <i>Sensors</i> , 2021, 21, 1816.	2.1	22
189	Deep learning classification of lung cancer histology using CT images. <i>Scientific Reports</i> , 2021, 11, 5471.	1.6	96
190	Comparative investigation of the moth-flame algorithm and whale optimization algorithm for optimal spur gear design. <i>Materialpruefung/Materials Testing</i> , 2021, 63, 266-271.	0.8	33
191	Binary biogeography-based optimization based SVM-RFE for feature selection. <i>Applied Soft Computing Journal</i> , 2021, 101, 107026.	4.1	84
192	An efficient binary slime mould algorithm integrated with a novel attacking-feeding strategy for feature selection. <i>Computers and Industrial Engineering</i> , 2021, 153, 107078.	3.4	47
193	A wrapper metaheuristic framework for handwritten signature verification. <i>Soft Computing</i> , 2021, 25, 8665-8681.	2.1	10
194	Improved Slime Mould Algorithm based on Firefly Algorithm for feature selection: A case study on QSAR model. <i>Engineering With Computers</i> , 2022, 38, 2407-2421.	3.5	47
195	FDEIR: Content-Based Image Retrieval using Fast Demeanor Ensemble Features. <i>Turkish Journal of Computer and Mathematics Education</i> , 2021, 12, 1660-1671.	0.4	1
196	MRMR-SSA: a hybrid approach for optimal feature selection. <i>Evolutionary Intelligence</i> , 2022, 15, 2017-2036.	2.3	3
198	Review of swarm intelligence-based feature selection methods. <i>Engineering Applications of Artificial Intelligence</i> , 2021, 100, 104210.	4.3	244
199	Automatic selection of heavy-tailed distributions-based synergy Henry gas solubility and Harris hawk optimizer for feature selection: case study drug design and discovery. <i>Artificial Intelligence Review</i> , 2021, 54, 4685-4730.	9.7	10
200	A Novel Dynamic Hybridization Method for Best Feature Selection. <i>International Journal of Applied Metaheuristic Computing</i> , 2021, 12, 85-99.	0.5	1

#	ARTICLE	IF	CITATIONS
201	Efficient n-gram construction for text categorization using feature selection techniques. Intelligent Data Analysis, 2021, 25, 509-525.	0.4	12
202	Enhanced Harris hawks optimization with genetic operators for selection chemical descriptors and compounds activities. Neural Computing and Applications, 2021, 33, 13601-13618.	3.2	45
203	Unsupervised concrete feature selection based on mutual information for diagnosing faults and cyber-attacks in power systems. Engineering Applications of Artificial Intelligence, 2021, 100, 104150.	4.3	26
204	Improved salp swarm algorithm based on the levy flight for feature selection. Journal of Supercomputing, 2021, 77, 12399-12419.	2.4	18
205	An Improved Artificial Bee Colony for Feature Selection in QSAR. Algorithms, 2021, 14, 120.	1.2	6
206	A hybrid whale optimization algorithm for global optimization. Journal of Ambient Intelligence and Humanized Computing, 2023, 14, 431-467.	3.3	37
207	A hybrid multi-stage learning technique based on brain storming optimization algorithm for breast cancer recurrence prediction. Journal of King Saud University - Computer and Information Sciences, 2022, 34, 5192-5203.	2.7	7
208	Multi-label feature selection with local discriminant model and label correlations. Neurocomputing, 2021, 442, 98-115.	3.5	21
209	Improved Equilibrium Optimization Algorithm Using Elite Opposition-Based Learning and New Local Search Strategy for Feature Selection in Medical Datasets. Computation, 2021, 9, 68.	1.0	39
210	A cloud load forecasting model with nonlinear changes using whale optimization algorithm hybrid strategy. Soft Computing, 2021, 25, 10205-10220.	2.1	12
211	A Novel Sampling Method with Lévy Flight for Distribution-Based Discrete Particle Swarm Optimization. , 2021, , .		1
212	Comprehensive Analysis of Feature Selection on Early Heart Stroke Prediction. , 2021, , .		4
213	Impact of noise on the performance of automatic systems for vocal fold lesions detection. Biocybernetics and Biomedical Engineering, 2021, 41, 1039-1056.	3.3	2
214	Accelerating Analytics Using Improved Binary Particle Swarm Optimization for Discrete Feature Selection. Computer Journal, 0, , .	1.5	0
215	A comparative approach of methods to estimate machine productivity in wood cutting. International Journal of Forest Engineering, 2022, 33, 43-55.	0.4	7
216	Forecast of E-Commerce Transactions Trend Using Integration of Enhanced Whale Optimization Algorithm and Support Vector Machine. Computational Intelligence and Neuroscience, 2021, 2021, 1-12.	1.1	1
217	EA-MSCA: An effective energy-aware multi-objective modified sine-cosine algorithm for real-time task scheduling in multiprocessor systems: Methods and analysis. Expert Systems With Applications, 2021, 173, 114699.	4.4	31
218	GABC. International Journal of Swarm Intelligence Research, 2021, 12, 78-95.	0.5	0

#	ARTICLE	IF	CITATIONS
219	Outlier Detection Based Feature Selection Exploiting Bio-Inspired Optimization Algorithms. Applied Sciences (Switzerland), 2021, 11, 6769.	1.3	7
220	Effective multi-sensor data fusion for chatter detection in milling process. ISA Transactions, 2022, 125, 514-527.	3.1	60
221	Quantum squirrel inspired algorithm for gene selection in methylation and expression data of prostate cancer. Applied Soft Computing Journal, 2021, 105, 107221.	4.1	16
222	BHHO-TVS: A Binary Harris Hawks Optimizer with Time-Varying Scheme for Solving Data Classification Problems. Applied Sciences (Switzerland), 2021, 11, 6516.	1.3	17
223	Building a Fuzzy Classifier Based on Whale Optimization Algorithm to Detect Network Intrusions. Symmetry, 2021, 13, 1211.	1.1	10
224	Population and Global Search Improved Squirrel Search Algorithm for Feature Selection in Big Data Classification. International Journal of Intelligent Engineering and Systems, 2021, 14, 177-189.	0.8	2
225	A novel application of integrated grasshopper optimization heuristics for attenuation of noise interferences. Ain Shams Engineering Journal, 2022, 13, 101536.	3.5	4
226	A systematic review of emerging feature selection optimization methods for optimal text classification: the present state and prospective opportunities. Neural Computing and Applications, 2021, 33, 15091-15118.	3.2	51
227	An interactive filter-wrapper multi-objective evolutionary algorithm for feature selection. Swarm and Evolutionary Computation, 2021, 65, 100925.	4.5	17
228	Swarm Intelligence-Based Feature Selection for Amphetamine-Type Stimulants (ATS) Drug 3D Molecular Structure Classification. Applied Artificial Intelligence, 2021, 35, 914-932.	2.0	6
229	Application of Feature Extraction Methods for Chemical Risk Classification in the Pharmaceutical Industry. Sensors, 2021, 21, 5753.	2.1	3
230	A novel feature selection algorithm based on damping oscillation theory. PLoS ONE, 2021, 16, e0255307.	1.1	1
231	A Tri-Stage Wrapper-Filter Feature Selection Framework for Disease Classification. Sensors, 2021, 21, 5571.	2.1	66
232	A novel three layer particle swarm optimization for feature selection. Journal of Intelligent and Fuzzy Systems, 2021, 41, 2469-2483.	0.8	3
233	Symbiotic organisms search algorithm using random walk and adaptive Cauchy mutation on the feature selection of sleep staging. Expert Systems With Applications, 2021, 176, 114887.	4.4	16
234	Feature selection using stochastic approximation with Barzilai and Borwein non-monotone gains. Computers and Operations Research, 2021, 132, 105334.	2.4	2
235	ControlBurn. , 2021, , .		3
236	Gene selection using hybrid dragonfly black hole algorithm: A case study on RNA-seq COVID-19 data. Analytical Biochemistry, 2021, 627, 114242.	1.1	26

#	ARTICLE	IF	CITATIONS
237	IWOSSA: An improved whale optimization salp swarm algorithm for solving optimization problems. Expert Systems With Applications, 2021, 176, 114901.	4.4	49
238	A novel multi-objective forest optimization algorithm for wrapper feature selection. Expert Systems With Applications, 2021, 175, 114737.	4.4	67
239	Application of Horse Herd Optimization Algorithm for medical problems. , 2021, , .		4
240	Improved sine cosine algorithm with simulated annealing and singer chaotic map for Hadith classification. Neural Computing and Applications, 2022, 34, 1385-1406.	3.2	20
241	Optimal Rescheduling of Generators to Alleviate Congestion in Transmission System: A Novel Modified Whale Optimization Approach. Arabian Journal for Science and Engineering, 2022, 47, 3255-3279.	1.7	7
242	Real-time epileptic seizure recognition using Bayesian genetic whale optimizer and adaptive machine learning. Future Generation Computer Systems, 2022, 127, 426-434.	4.9	38
243	An Electric Fish-Based Arithmetic Optimization Algorithm for Feature Selection. Entropy, 2021, 23, 1189.	1.1	35
244	A robust multiobjective Harrisâ€™ Hawks Optimization algorithm for the binary classification problem. Knowledge-Based Systems, 2021, 227, 107219.	4.0	26
245	Identification of Critical Components in the Complex Technical Infrastructure of the Large Hadron Collider Using Relief Feature Ranking and Support Vector Machines. Energies, 2021, 14, 6000.	1.6	2
246	A Clustering-Guided Integer Brain Storm Optimizer for Feature Selection in High-Dimensional Data. Discrete Dynamics in Nature and Society, 2021, 2021, 1-10.	0.5	1
247	A Recurrence Population-based Great Deluge Algorithm with Independent Quality Estimation for Feature Selection from Academician Data. Applied Artificial Intelligence, 2021, 35, 1081-1105.	2.0	1
248	Mining semantic features in current reports for financial distress prediction: Empirical evidence from unlisted public firms in China. International Journal of Forecasting, 2022, 38, 1086-1099.	3.9	17
249	New feature selection paradigm based on hyper-heuristic technique. Applied Mathematical Modelling, 2021, 98, 14-37.	2.2	15
250	Exploring syntactic and semantic features for authorship attribution. Applied Soft Computing Journal, 2021, 111, 107815.	4.1	18
251	Effective feature selection with fuzzy entropy and similarity classifier for chatter vibration diagnosis. Measurement: Journal of the International Measurement Confederation, 2021, 184, 109962.	2.5	57
252	A novel self-learning feature selection approach based on feature attributions. Expert Systems With Applications, 2021, 183, 115219.	4.4	19
253	Hybrid filter-wrapper feature selection using whale optimization algorithm: A multi-objective approach. Expert Systems With Applications, 2021, 183, 115312.	4.4	61
254	Inconsistency guided robust attribute reduction. Information Sciences, 2021, 580, 69-91.	4.0	9

#	ARTICLE	IF	CITATIONS
255	An hybrid particle swarm optimization with crow search algorithm for feature selection. Machine Learning With Applications, 2021, 6, 100108.	3.0	38
256	Manifold learning with structured subspace for multi-label feature selection. Pattern Recognition, 2021, 120, 108169.	5.1	40
257	Advances in Data Preprocessing for Biomedical Data Fusion: An Overview of the Methods, Challenges, and Prospects. Information Fusion, 2021, 76, 376-421.	11.7	106
258	A framework for feature selection through boosting. Expert Systems With Applications, 2022, 187, 115895.	4.4	65
259	Efficient high-dimension feature selection based on enhanced equilibrium optimizer. Expert Systems With Applications, 2022, 187, 115882.	4.4	24
260	A Survey of Metaheuristic Algorithms for Solving Optimization Problems. Studies in Computational Intelligence, 2021, , 515-543.	0.7	11
261	Modified Chaotic Bee Colony Optimization (MCBCO) algorithm for data clustering. , 2021, , .		1
262	Feature Selection with Binary Symbiotic Organisms Search Algorithm for Email Spam Detection. International Journal of Information Technology and Decision Making, 2021, 20, 469-515.	2.3	46
263	S-shaped versus V-shaped transfer functions for binary Manta ray foraging optimization in feature selection problem. Neural Computing and Applications, 2021, 33, 11027-11041.	3.2	61
264	Review of Feature Selection, Dimensionality Reduction and Classification for Chronic Disease Diagnosis. IEEE Access, 2021, 9, 87310-87317.	2.6	16
265	A novel binary farmland fertility algorithm for feature selection in analysis of the text psychology. Applied Intelligence, 2021, 51, 4824-4859.	3.3	19
266	Feature Selection and Software Defect Prediction by Different Ensemble Classifiers. Lecture Notes in Computer Science, 2021, , 307-313.	1.0	2
267	An efficient binary Gradient-based optimizer for feature selection. Mathematical Biosciences and Engineering, 2021, 18, 3813-3854.	1.0	40
268	Multi-Objective Feature Selection With Missing Data in Classification. IEEE Transactions on Emerging Topics in Computational Intelligence, 2022, 6, 355-364.	3.4	79
269	Chaos cloud quantum bat hybrid optimization algorithm. Nonlinear Dynamics, 2021, 103, 1167-1193.	2.7	99
270	Metaheuristic Algorithms on Feature Selection: A Survey of One Decade of Research (2009-2019). IEEE Access, 2021, 9, 26766-26791.	2.6	237
271	A Study on Meta Heuristic Algorithms for Feature Selection. Lecture Notes on Data Engineering and Communications Technologies, 2019, , 1291-1298.	0.5	7
272	Opposition Theory Enabled Intelligent Whale Optimization Algorithm. Lecture Notes in Electrical Engineering, 2020, , 485-493.	0.3	2

#	ARTICLE	IF	CITATIONS
273	Parameter Tuning onto Recurrent Neural Network and Long Short-Term Memory (RNN-LSTM) Network for Feature Selection in Classification of High-Dimensional Bioinformatics Datasets. Springer Tracts in Nature-inspired Computing, 2021, , 21-42.	1.2	2
274	Augmented whale feature selection for IoT attacks: Structure, analysis and applications. Future Generation Computer Systems, 2020, 112, 18-40.	4.9	52
275	Uncertainties of instantaneous influent flow predictions by intelligence models hybridized with multi-objective shark smell optimization algorithm. Journal of Hydrology, 2020, 587, 124977.	2.3	27
276	Image segmentation via multilevel thresholding using hybrid optimization algorithms. Journal of Electronic Imaging, 2018, 27, 1.	0.5	24
277	A novel method of constrained feature selection by the measurement of pairwise constraints uncertainty. Journal of Big Data, 2020, 7, .	6.9	40
278	A Study and Analysis of a Feature Subset Selection Technique Using Penguin Search Optimization Algorithm. , 2019, , 51-68.		2
279	A Novel Hybrid Algorithm to Classify Spam Profiles in Twitter. Webology, 2020, 17, 260-279.	0.3	9
281	An Improved Whale Optimization Algorithm for Feature Selection. Computers, Materials and Continua, 2020, 62, 337-354.	1.5	18
283	An Improved Binary Grey-Wolf Optimizer With Simulated Annealing for Feature Selection. IEEE Access, 2021, 9, 139792-139822.	2.6	12
284	A New Feature Selection Algorithm Based on Deep Q-Network. , 2021, , .		3
285	Comparative analysis of machine learning techniques for brain tumor images. , 2021, , .		0
286	B-MFO: A Binary Moth-Flame Optimization for Feature Selection from Medical Datasets. Computers, 2021, 10, 136.	2.1	85
287	An enhanced black widow optimization algorithm for feature selection. Knowledge-Based Systems, 2022, 235, 107638.	4.0	92
288	Recursive eliminationâ€“election algorithms for wrapper feature selection. Applied Soft Computing Journal, 2021, 113, 107956.	4.1	19
289	Feature selection algorithm for high dimensional biomedical data classification based on redundant removal. , 0, , .		0
290	Dynamic Centroid Insertion and Adjustment for Data Sets with Multiple Imbalanced Classes. Lecture Notes in Computer Science, 2019, , 766-778.	1.0	0
291	Medical Image Classification. Advances in Medical Technologies and Clinical Practice Book Series, 2019, , 59-80.	0.3	0
292	Binary Thermal Exchange Optimization for Feature Selection. Studies in Big Data, 2020, , 239-260.	0.8	0

#	ARTICLE	IF	CITATIONS
293	A self-adaptive weighted differential evolution approach for large-scale feature selection. Knowledge-Based Systems, 2022, 235, 107633.	4.0	38
294	A new two-stage hybrid feature selection algorithm and its application in Chinese medicine. International Journal of Machine Learning and Cybernetics, 2022, 13, 1243-1264.	2.3	5
295	Using Domain Knowledge for Feature Selection in Neural Network Solution of the Inverse Problem of Magnetotelluric Sounding. Advances in Intelligent Systems and Computing, 2021, , 115-126.	0.5	5
296	A Hybrid Spherical Search and Whale Optimization Algorithm. , 2020, , .		1
297	A novel object detection algorithm based on enhanced R-FCN and SVM. , 2020, , .		3
298	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
299	Feature Selection by Using DE Algorithm and k-NN Classifier. Lecture Notes on Data Engineering and Communications Technologies, 2020, , 886-893.	0.5	0
300	Optimum conceptual design for the life support systems of manned spacecraft. Cogent Engineering, 2020, 7, 1863304.	1.1	1
301	Wrapper-Based Feature Selection Using Self-adaptive Differential Evolution. Communications in Computer and Information Science, 2020, , 135-154.	0.4	2
302	Fuzzy information decomposition incorporated and weighted Relief-F feature selection: When imbalanced data meet incompleteness. Information Sciences, 2022, 584, 417-432.	4.0	15
303	Sonar Inspired Optimization based Feature Selection. , 2020, , .		1
304	Human Gait Recognition: A Single Stream Optimal Deep Learning Features Fusion. Sensors, 2021, 21, 7584.	2.1	23
305	PPO: a new nature-inspired metaheuristic algorithm based on predation for optimization. Soft Computing, 2022, 26, 1331-1402.	2.1	11
306	Research on a collocation approach and three metaheuristic techniques based on MVO, MFO, and WOA for optimal control of fractional differential equation. JVC/Journal of Vibration and Control, 2023, 29, 661-674.	1.5	5
307	Research on Alarm Reduction of Intrusion Detection System Based on Clustering and Whale Optimization Algorithm. Applied Sciences (Switzerland), 2021, 11, 11200.	1.3	6
308	A novel hybrid firefly-whale optimization algorithm and its application to optimization of MPC parameters. Soft Computing, 2022, 26, 1845-1872.	2.1	13
309	Dispersed foraging slime mould algorithm: Continuous and binary variants for global optimization and wrapper-based feature selection. Knowledge-Based Systems, 2022, 237, 107761.	4.0	115
310	A Hierarchical Intrusion Detection System Based on Extreme Learning Machine and Nature-Inspired Optimization. SSRN Electronic Journal, 0, , .	0.4	0

#	ARTICLE	IF	CITATIONS
311	Feature Selection Method Based on the Intra-Class Redundant Information Ratio. SSRN Electronic Journal, 0, , .	0.4	0
312	A Novel Discriminative Virtual Label Regression Method for Unsupervised Feature Selection. IEICE Transactions on Information and Systems, 2022, E105.D, 175-179.	0.4	1
313	Graph Based Feature Selection for Reduction of Dimensionality in Next-Generation RNA Sequencing Datasets. Algorithms, 2022, 15, 21.	1.2	7
314	Binary Horse herd optimization algorithm with crossover operators for feature selection. Computers in Biology and Medicine, 2022, 141, 105152.	3.9	65
316	A Novel Genetic Grey Wolf optimizer for Global optimization and Feature Selection. , 2020, , .		1
317	A Band Selection Method for Hyperspectral Image Based on Binary Coded Hybrid Rice Optimization Algorithm. , 2021, , .		1
318	A composite framework of deep multiple view human joints feature extraction and selection strategy with hybrid adaptive sunflower optimization and whale optimization algorithm for human action recognition in video sequences. Computational Intelligence, 2022, 38, 366-396.	2.1	3
319	A Modified Memetic Algorithm with an Application to Gene Selection in a Sheep Body Weight Study. Animals, 2022, 12, 201.	1.0	3
320	Multiclass Skin Lesion Classification Using Hybrid Deep Features Selection and Extreme Learning Machine. Sensors, 2022, 22, 799.	2.1	78
321	Estimating the total nitrogen content of Aquilaria sinensis leaves based on a hybrid feature selection algorithm and image data from a modified digital camera. Biosystems Engineering, 2022, 213, 89-104.	1.9	2
322	Feature selection techniques in the context of big data: taxonomy and analysis. Applied Intelligence, 2022, 52, 13568-13613.	3.3	24
323	A hybrid whale optimization algorithm with artificial bee colony. Soft Computing, 2022, 26, 2075-2097.	2.1	20
324	A genetic algorithm-based support vector machine model for detection of hearing thresholds. Australian Journal of Electrical and Electronics Engineering, 0, , 1-8.	0.7	0
325	Multi-Modal Feature Selection with Feature Correlation and Feature Structure Fusion for MCI and AD Classification. Brain Sciences, 2022, 12, 80.	1.1	20
326	A Review of the Modification Strategies of the Nature Inspired Algorithms for Feature Selection Problem. Mathematics, 2022, 10, 464.	1.1	60
327	An efficient binary chimp optimization algorithm for feature selection in biomedical data classification. Neural Computing and Applications, 2022, 34, 6427-6451.	3.2	55
328	On the Mathematical Models and Applications of Swarm Intelligent Optimization Algorithms. Archives of Computational Methods in Engineering, 2022, 29, 3815-3842.	6.0	10
329	Improved seagull optimization algorithm using Levy flight and mutation operator for feature selection. Neural Computing and Applications, 2022, 34, 7437-7472.	3.2	44

#	ARTICLE	IF	CITATIONS
330	Multi-label feature selection based on manifold regularization and imbalance ratio. Applied Intelligence, 2022, 52, 11652-11671.	3.3	6
331	A novel phishing detection system using binary modified equilibrium optimizer for feature selection. Computers and Electrical Engineering, 2022, 98, 107689.	3.0	20
332	Improved Binary Adaptive Wind Driven Optimization Algorithm-Based Dimensionality Reduction for Supervised Classification. Computers and Industrial Engineering, 2022, 167, 107904.	3.4	13
333	Feature Transformation Framework for Enhancing Compactness and Separability of Data Points in Feature Space for Small Datasets. Applied Sciences (Switzerland), 2022, 12, 1713.	1.3	1
335	Boolean Particle Swarm Optimization with various Evolutionary Population Dynamics approaches for feature selection problems. Expert Systems With Applications, 2022, 195, 116550.	4.4	32
336	Grasshopper Optimization Algorithm With Crossover Operators for Feature Selection and Solving Engineering Problems. IEEE Access, 2022, 10, 23304-23320.	2.6	16
338	Diagnosis of each main coronary artery stenosis based on whale optimization algorithm and stacking model. Mathematical Biosciences and Engineering, 2022, 19, 4568-4591.	1.0	5
339	Incorporating Lévy Flight to Distribution-Based Discrete Particle Swarm Optimization. Journal of Japan Society for Fuzzy Theory and Intelligent Informatics, 2022, 34, 511-521.	0.0	0
340	A novel nonlinear time-varying sigmoid transfer function in binary whale optimization algorithm for descriptors selection in drug classification. Molecular Diversity, 2023, 27, 71-80.	2.1	13
341	A new fusion of whale optimizer algorithm with Kapur's entropy for multi-threshold image segmentation: analysis and validations. Artificial Intelligence Review, 2022, 55, 6389-6459.	9.7	12
342	A Modified Grey Wolf Optimization Algorithm for an Intrusion Detection System. Mathematics, 2022, 10, 999.	1.1	48
343	A novel approach for spam detection using horse herd optimization algorithm. Neural Computing and Applications, 2022, 34, 13091-13105.	3.2	11
344	An Intelligent handcrafted feature selection using Archimedes optimization algorithm for facial analysis. Soft Computing, 2022, 26, 10435-10464.	2.1	11
345	A multipopulation cooperative coevolutionary whale optimization algorithm with a two-stage orthogonal learning mechanism. Knowledge-Based Systems, 2022, 246, 108664.	4.0	16
346	Optimized feature selection method using particle swarm intelligence with ensemble learning for cancer classification based on microarray datasets. Neural Computing and Applications, 2022, 34, 13513-13528.	3.2	19
347	Metaheuristics algorithms for optimization of gains for dynamic voltage restorers to improve power quality and dynamics. Optimal Control Applications and Methods, 2023, 44, 1006-1025.	1.3	2
348	Using improved feature extraction combined with RF-KNN classifier to predict coal and gas outburst. Journal of Intelligent and Fuzzy Systems, 2022, , 1-14.	0.8	0
349	Binary Artificial Algae Algorithm for feature selection. Applied Soft Computing Journal, 2022, 120, 108630.	4.1	31

#	ARTICLE	IF	CITATIONS
350	A Modified Whale Optimization Algorithm for Enhancing the Features Selection Process in Machine Learning. , 2021, , .		3
351	Feature selection based on min-redundancy and max-consistency. Advances in Computational Intelligence, 2022, 2, 1.	0.7	2
352	DIAMOND: A Structured Coevolution Feature Optimization Method for LDDoS Detection in SDN-IoT. Wireless Communications and Mobile Computing, 2021, 2021, 1-14.	0.8	4
353	A Novel Feature-Engineeredâ€“NGBoost Machine-Learning Framework for Fraud Detection in Electric Power Consumption Data. Sensors, 2021, 21, 8423.	2.1	11
354	Robust Multi-label Feature Selection via Low-dimensional Embedding and Manifold Regularization. , 2021, , .		0
355	Hybrid binary arithmetic optimization algorithm with simulated annealing for feature selection in high-dimensional biomedical data. Journal of Supercomputing, 2022, 78, 15598-15637.	2.4	18
356	Effective memetic algorithm for multilabel feature selection using hybridization-based communication. Expert Systems With Applications, 2022, 201, 117064.	4.4	7
357	A Modified Whale Optimization Algorithm as Filter-Based Feature Selection for High Dimensional Datasets. Lecture Notes in Networks and Systems, 2022, , 90-100.	0.5	1
358	An improved binary sparrow search algorithm for feature selection in data classification. Neural Computing and Applications, 2022, 34, 15705-15752.	3.2	21
359	Integrated framework for EMDâ€“Boruta-LDA feature extraction and SVM classification in coal and gas outbursts. Journal of Experimental and Theoretical Artificial Intelligence, 0, , 1-20.	1.8	2
360	A Hybrid Feature Selection Framework Using Improved Sine Cosine Algorithm with Metaheuristic Techniques. Energies, 2022, 15, 3485.	1.6	9
361	Human emotion recognition from EEG-based brainâ€“computer interface using machine learning: a comprehensive review. Neural Computing and Applications, 2022, 34, 12527-12557.	3.2	82
362	Improved swarm intelligence algorithms with time-varying modified Sigmoid transfer function for Amphetamine-type stimulants drug classification. Chemometrics and Intelligent Laboratory Systems, 2022, 226, 104574.	1.8	5
363	An improved group teaching optimization algorithm based on local search and chaotic map for feature selection in high-dimensional data. Expert Systems With Applications, 2022, 204, 117493.	4.4	13
364	A comprehensive survey on recent metaheuristics for feature selection. Neurocomputing, 2022, 494, 269-296.	3.5	119
365	Improved Reptile Search Optimization Algorithm Using Chaotic Map and Simulated Annealing for Feature Selection in Medical Field. IEEE Access, 2022, 10, 51428-51446.	2.6	17
366	An efficient feature selection method based on improved elephant herding optimization to classify highâ€“dimensional biomedical data. Expert Systems, 2022, 39, .	2.9	4
367	Improved WOA and its application in feature selection. PLoS ONE, 2022, 17, e0267041.	1.1	11

#	ARTICLE	IF	CITATIONS
368	Rough Sets Hybridization with Mayfly Optimization forçšdimensionalityçš«duction. Computers, Materials and Continua, 2022, 73, 1087-1108.	1.5	4
369	Relation patterns extraction from high-dimensional climate data with complicated multi-variables using deep neural networks. Applied Intelligence, 2023, 53, 3124-3135.	3.3	1
370	A modified Grey Wolf Optimization with Cuckoo Search Algorithm for load frequency controller design of hybrid power system. Applied Soft Computing Journal, 2022, 124, 109011.	4.1	42
371	Swarm Intelligence Algorithms-Based Machine Learning Framework for Medical Diagnosis: A Comprehensive Review. Studies in Computational Intelligence, 2022, , 85-106.	0.7	3
372	Feature Selection for Metaheuristics Optimization Technique with Chaos. , 2022, , .		1
373	An enhanced binary Rat Swarm Optimizer based on local-best concepts of PSO and collaborative crossover operators for feature selection. Computers in Biology and Medicine, 2022, 147, 105675.	3.9	38
374	Design on a wireless mechanomyography acquisition equipment and feature selection for lower limb motion recognition. Biomedical Signal Processing and Control, 2022, 77, 103679.	3.5	5
375	Soft sensor with deep feature extraction for a sugarcane milling system. Journal of Food Process Engineering, 0, , .	1.5	2
376	A random walk Grey wolf optimizer based on dispersion factor for feature selection on chronic disease prediction. Expert Systems With Applications, 2022, 206, 117864.	4.4	20
377	3PcGE: 3-parent child-based genetic evolution for software defect prediction. Innovations in Systems and Software Engineering, 2023, 19, 197-216.	1.6	9
378	Feature Selection Based on Modified Bio-inspired Atomic Orbital Search Using Arithmetic Optimization and Opposite-Based Learning. Cognitive Computation, 2022, 14, 2274-2295.	3.6	2
379	A Band Selection Approach for Hyperspectral Image Based on a Modified Hybrid Rice Optimization Algorithm. Symmetry, 2022, 14, 1293.	1.1	8
380	Genetic Evolution-Based Feature Selection for Software Defect Prediction Using SVMs. Journal of Circuits, Systems and Computers, 2022, 31, .	1.0	11
381	MICQ-IPSO: An effective two-stage hybrid feature selection algorithm for high-dimensional data. Neurocomputing, 2022, 501, 328-342.	3.5	11
382	Analysis of supervised feature selection in bioinformatics. , 2022, , 431-446.		1
384	A General Framework for Class Label Specific Mutual Information Feature Selection Method. IEEE Transactions on Information Theory, 2022, 68, 7996-8014.	1.5	3
385	Analysis of Improved Evolutionary Algorithms Using Studentsâ€™™ Datasets. , 2022, , .		3
386	Evolutionary feature selection. , 2022, , .		3

#	ARTICLE	IF	CITATIONS
387	Simulated annealing-based dynamic step shuffled frog leaping algorithm: Optimal performance design and feature selection. <i>Neurocomputing</i> , 2022, 503, 325-362.	3.5	68
388	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
389	A new hybrid feature selection based on Improved Equilibrium Optimization. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2022, 228, 104618.	1.8	15
390	Multi-objective multi-verse optimizer based unsupervised band selection for hyperspectral image classification. <i>International Journal of Remote Sensing</i> , 2022, 43, 3990-4024.	1.3	15
391	Mutational Slime Mould Algorithm for Gene Selection. <i>Biomedicines</i> , 2022, 10, 2052.	1.4	5
392	An Efficient Improved Greedy Harris Hawks Optimizer and Its Application to Feature Selection. <i>Entropy</i> , 2022, 24, 1065.	1.1	4
393	Feature Selection Model Based on IWOA for Behavior Identification of Chicken. <i>Sensors</i> , 2022, 22, 6147.	2.1	2
394	Call Failure Prediction in IP Multimedia Subsystem (IMS) Networks. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 8378.	1.3	3
395	Neighborhood rough set based multi-label feature selection with label correlation. <i>Concurrency Computation Practice and Experience</i> , 2022, 34, .	1.4	2
396	Improving Amphetamine-type Stimulants drug classification using chaotic-based time-varying binary whale optimization algorithm. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2022, 229, 104635.	1.8	4
397	Artificial Bee Colony with Cuckoo Search for Solving Service Composition. <i>Intelligent Automation and Soft Computing</i> , 2023, 35, 3385-3402.	1.6	4
398	Hybrid binary COOT algorithm with simulated annealing for feature selection in high-dimensional microarray data. <i>Neural Computing and Applications</i> , 2023, 35, 353-374.	3.2	12
399	Software fault prediction using evolving populations with mathematical diversification. <i>Soft Computing</i> , 2022, 26, 13999-14020.	2.1	7
400	A clinical decision support system for polycystic ovarian syndrome using red deer algorithm and random forest classifier. <i>Healthcare Analytics</i> , 2022, 2, 100102.	2.6	11
401	Symmetric uncertainty-incorporated probabilistic sequence-based ant colony optimization for feature selection in classification. <i>Knowledge-Based Systems</i> , 2022, 256, 109874.	4.0	15
402	Information-Theory-based Nondominated Sorting Ant Colony Optimization for Multiobjective Feature Selection in Classification. <i>IEEE Transactions on Cybernetics</i> , 2023, 53, 5276-5289.	6.2	22
403	Feature Selection and Feature Weighting Using Tunicate Swarm Genetic Optimization Algorithm With Deep Residual Networks. <i>International Journal of Swarm Intelligence Research</i> , 2022, 13, 1-16.	0.5	0
404	Machine learning approaches for the mortality risk assessment of patients undergoing hemodialysis. <i>Therapeutic Advances in Chronic Disease</i> , 2022, 13, 204062232211196.	1.1	4

#	ARTICLE	IF	CITATIONS
405	Binary Drone Squadron Optimization Approaches for Feature Selection. IEEE Access, 2022, 10, 87099-87114.	2.6	1
406	Maximum Relevancy and Minimum Redundancy Based Ensemble Feature Selection Model for Effective Classification. Lecture Notes in Electrical Engineering, 2022, , 131-146.	0.3	0
407	Binary Black Widow Optimization Approach for Feature Selection. IEEE Access, 2022, 10, 95936-95948.	2.6	6
408	Parametric optimization of FDM using the ANN-based whale optimization algorithm. Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM, 2022, 36, .	0.7	7
409	E-LSTM: An extension to the LSTM architecture for incorporating long lag dependencies. , 2022, , .		1
410	Hybrid Enhanced Binary Honey Badger Algorithm with Quadratic Programming for Cardinality Constrained Portfolio Optimization. International Journal of Foundations of Computer Science, 0, , 1-17.	0.8	0
411	Multiclass feature selection with metaheuristic optimization algorithms: a review. Neural Computing and Applications, 2022, 34, 19751-19790.	3.2	44
412	A new improved maximal relevance and minimal redundancy method based on feature subset. Journal of Supercomputing, 2023, 79, 3157-3180.	2.4	7
413	HMMWOA: A Hybrid WMAâ€™WOA Algorithm with Adaptive Cauchy Mutation for Global Optimization and Data Classification. International Journal of Information Technology and Decision Making, 2023, 22, 1195-1252.	2.3	7
414	Improved firefly algorithm for feature selection with the ReliefF-based initialization and the weighted voting mechanism. Neural Computing and Applications, 2023, 35, 275-301.	3.2	4
415	Credit risk assessment mechanism of personal auto loan based on PSO-XGBoost Model. Complex & Intelligent Systems, 2023, 9, 1391-1414.	4.0	7
416	Default Risk Prediction of Enterprises Based on Convolutional Neural Network in the Age of Big Data: Analysis from the Viewpoint of Different Balance Ratios. Complexity, 2022, 2022, 1-18.	0.9	1
417	PGRNIG: novel parallel gene regulatory network identification algorithm based on GPU. Briefings in Functional Genomics, 2022, 21, 441-454.	1.3	6
418	Intrusion detection for the internet of things (IoT) based on the emperor penguin colony optimization algorithm. Journal of Ambient Intelligence and Humanized Computing, 2023, 14, 6349-6366.	3.3	9
419	Information sharing search boosted whale optimizer with Nelder-Mead simplex for parameter estimation of photovoltaic models. Energy Conversion and Management, 2022, 270, 116246.	4.4	21
420	An Efficient High-dimensional Feature Selection Approach Driven By Enhanced Multi-strategy Grey Wolf Optimizer for Biological Data Classification. Neural Computing and Applications, 2023, 35, 1749-1775.	3.2	6
421	Feature Selection for financial data â€™ comparison. Procedia Computer Science, 2022, 207, 3047-3056.	1.2	2
422	An ensemble algorithm integrating consensus-clustering with feature weighting based ranking and probabilistic fuzzy logic-multilayer perceptron classifier for diagnosis and staging of breast cancer using heterogeneous datasets. Applied Intelligence, 2023, 53, 13882-13923.	3.3	3

#	ARTICLE	IF	CITATIONS
423	Opposition-based sine cosine optimizer utilizing refraction learning and variable neighborhood search for feature selection. <i>Applied Intelligence</i> , 2023, 53, 13224-13260.	3.3	14
424	Enhanced feature selection technique using slime mould algorithm: a case study on chemical data. <i>Neural Computing and Applications</i> , 2023, 35, 3307-3324.	3.2	4
425	Feature selection based on a hybrid simplified particle swarm optimization algorithm with maximum separation and minimum redundancy. <i>International Journal of Machine Learning and Cybernetics</i> , 2023, 14, 789-816.	2.3	4
426	Boosting Archimedes optimization algorithm using trigonometric operators based on feature selection for facial analysis. <i>Neural Computing and Applications</i> , 2023, 35, 3903-3923.	3.2	6
427	A distributed sparse logistic regression with $L_{1/2}$ regularization for microarray biomarker discovery in cancer classification. <i>Soft Computing</i> , 0, , .	2.1	0
428	Latent energy preserving embedding for unsupervised feature selection. , 2023, 132, 103794.		0
429	A novel metaheuristic optimisation approach for text sentiment analysis. <i>International Journal of Machine Learning and Cybernetics</i> , 2023, 14, 889-909.	2.3	5
430	Automatic frequency-based feature selection using discrete weighted evolution strategy. <i>Applied Soft Computing Journal</i> , 2022, 130, 109699.	4.1	8
431	A hierarchical intrusion detection system based on extreme learning machine and nature-inspired optimization. <i>Computers and Security</i> , 2023, 124, 102957.	4.0	12
432	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
433	A Meta-Analysis Survey on the Usage of Meta-Heuristic Algorithms for Feature Selection on High-Dimensional Datasets. <i>IEEE Access</i> , 2022, 10, 122832-122856.	2.6	4
434	A novel approach of features selection by using slime mould algorithm. <i>AIP Conference Proceedings</i> , 2022, , .	0.3	0
435	Dynamic chaotic Gold-Panning Optimizer and its typical engineering applications. <i>Applied Soft Computing Journal</i> , 2023, 133, 109917.	4.1	0
436	Unsupervised feature selection through combining graph learning and $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si2.svg" \rangle \langle \text{mml:mrow} \langle \text{mml:mrow} \langle \text{mml:mi} \rangle \hat{a}, \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:math} \rangle$ constraint. <i>Information Sciences</i> , 2023, 622, 68-82.	4.0	19
437	Membrane computing with harmony search algorithm for gene selection from expression and methylation data. <i>Journal of Membrane Computing</i> , 2022, 4, 293-313.	1.0	4
438	Binary Ebola Optimization Search Algorithm for Feature Selection and Classification Problems. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 11787.	1.3	8
440	Enhanced IoT Based IDS Driven by Binary Snake Optimizer for Feature Selection. <i>Communications in Computer and Information Science</i> , 2022, , 29-43.	0.4	1
441	Efficient Bioinspired Feature Selection and Machine Learning Based Framework Using Omics Data and Biological Knowledge Data Bases in Cancer Clinical Endpoint Prediction. <i>IEEE Access</i> , 2023, 11, 2674-2699.	2.6	2

#	ARTICLE	IF	CITATIONS
442	A binary Bi-phase mutation-based hybrid Equilibrium Optimizer for feature selection in medical datasets classification. Computers and Electrical Engineering, 2023, 105, 108553.	3.0	5
443	A self-adaptive quantum equilibrium optimizer with artificial bee colony for feature selection. Computers in Biology and Medicine, 2023, 153, 106520.	3.9	14
444	Framework of Meta-Heuristic Variable Length Searching for Feature Selection in High-Dimensional Data. Computers, 2023, 12, 7.	2.1	2
445	A novel Q-learning algorithm based on improved whale optimization algorithm for path planning. PLoS ONE, 2022, 17, e0279438.	1.1	5
446	Hierarchical Harris hawks optimizer for feature selection. Journal of Advanced Research, 2023, 53, 261-278.	4.4	16
447	A Dissolving P System for Multi-objective Gene Combination Selection from Micro-array Data. Lecture Notes on Data Engineering and Communications Technologies, 2023, , 369-376.	0.5	0
448	Quantum Computing in Machine Learning. , 2023, , 161-178.		0
449	A novel feature selection using binary hybrid improved whale optimization algorithm. Journal of Supercomputing, 2023, 79, 10020-10045.	2.4	3
450	Whale optimization with random contraction and Rosenbrock method for COVID-19 disease prediction. Biomedical Signal Processing and Control, 2023, 83, 104638.	3.5	5
451	A hybrid filter-wrapper feature selection using Fuzzy KNN based on Bonferroni mean for medical datasets classification: A COVID-19 case study. Expert Systems With Applications, 2023, 218, 119612.	4.4	20
452	Classification of brain tumour based on texture and deep features of magnetic resonance images. Expert Systems, 2023, 40, .	2.9	1
453	Machine learning based CAD system. , 2022, , .		0
454	Binary Black Widow Optimization Algorithm for Feature Selection Problems. Lecture Notes in Computer Science, 2022, , 93-107.	1.0	2
455	Classification framework for faulty-software using enhanced exploratory whale optimizer-based feature selection scheme and random forest ensemble learning. Applied Intelligence, 2023, 53, 18715-18757.	3.3	15
456	An enhanced Harris hawk optimizer based on extreme learning machine for feature selection. Progress in Artificial Intelligence, 2023, 12, 77-97.	1.5	1
457	Application of improved hybrid whale optimization algorithm to optimization problems. Neural Computing and Applications, 2023, 35, 12433-12451.	3.2	6
458	Dimensional decision covariance colony predation algorithm: global optimization and high-dimensional feature selection. Artificial Intelligence Review, 2023, 56, 11415-11471.	9.7	1
459	An Integrated Machine Learning-Based Brain Computer Interface to Classify Diverse Limb Motor Tasks: Explainable Model. Sensors, 2023, 23, 3171.	2.1	0

#	ARTICLE	IF	CITATIONS
460	An ensemble algorithm using quantum evolutionary optimization of weighted type-II fuzzy system and staged Pegasos Quantum Support Vector Classifier with multi-criteria decision making system for diagnosis and grading of breast cancer. <i>Soft Computing</i> , 2023, 27, 7147-7178.	2.1	5
461	A k-mer based metaheuristic approach for detecting COVID-19 variants. <i>DÃœMF MÃ¼hendislik Dergisi</i> , 2023, 14, 17-26.	0.2	1
462	Compactness score: a fast filter method for unsupervised feature selection. <i>Annals of Operations Research</i> , 0, , .	2.6	1
463	Boosting capuchin search with stochastic learning strategy for feature selection. <i>Neural Computing and Applications</i> , 2023, 35, 14061-14080.	3.2	4
464	A novel binary horse herd optimization algorithm for feature selection problem. <i>Multimedia Tools and Applications</i> , 2023, 82, 40309-40343.	2.6	3
465	Binary Whale Optimization Algorithm with Logarithmic Decreasing Time-Varying Modified Sigmoid Transfer Function for Descriptor Selection Problem. <i>Lecture Notes in Networks and Systems</i> , 2023, , 673-681.	0.5	0
466	Bi-stage QWOA-Based Efficient Feature Selection for Enhanced Depression Detection Based on Facial Cues. <i>Lecture Notes in Networks and Systems</i> , 2023, , 248-264.	0.5	0
467	Smart Fraud Detection in E-Transactions Using Synthetic Minority Oversampling and Binary Harris Hawks Optimization. <i>Computers, Materials and Continua</i> , 2023, 75, 3171-3187.	1.5	0
468	A novel binary greater cane rat algorithm for feature selection. <i>Results in Control and Optimization</i> , 2023, 11, 100225.	1.3	0
469	Improving software vulnerability classification performance using normalized difference measures. <i>International Journal of Systems Assurance Engineering and Management</i> , 0, , .	1.5	0
470	Prediction analysis for Parkinson disease using multiple feature selection & classification methods. <i>Multimedia Tools and Applications</i> , 2023, 82, 42995-43012.	2.6	2
479	Multimodal biometrics system using feature-level fusion of Iris and fingerprint using template security. <i>AIP Conference Proceedings</i> , 2023, , .	0.3	0
489	A Review on Feature Selection Approaches and Few Prominent Research Gaps for Image Classification. , 2022, , .		0
490	An Evaluation of Feature Selection Methods Performance for Dataset Construction. <i>Lecture Notes in Electrical Engineering</i> , 2023, , 115-128.	0.3	0
491	Binary Black Widow with Hill Climbing Algorithm for Feature Selection. <i>Communications in Computer and Information Science</i> , 2023, , 263-276.	0.4	0
496	Multi-strategy improved tuna swarm optimization algorithm for feature selection of network intrusion detection. , 2023, , .		0
506	Feature Selection for High-Dimensional Imbalanced Malware Data Using Filter and Wrapper Selection Methods. , 2023, , .		0
516	Two-Step Feature Selection Technique for Secure and Lightweight Internet of Things. , 2023, , .		0

#	ARTICLE	IF	CITATIONS
518	Improved Barnacles Movement Optimizer (IBMO) Algorithm for Engineering Design Problems. Lecture Notes in Computer Science, 2023, , 427-438.	1.0	0
530	An Enhanced Feature Selection Approach Using Capuchin Search Algorithm for high-dimensional Biological Data Classification. , 2023, , .		0
532	Feature Selection on Inconsistent Data. , 2024, , 93-110.		0
536	Feature selection based on Null Importance for Fault Diagnosis of Chiller. , 2023, , .		0
552	U-WOA: an unsupervised whale optimization algorithm based deep feature selection method for cancer detection in breast ultrasound images. , 2024, , 179-191.		0
554	Machine Learning Solutions to Polycystic Ovary Syndrome: A Review. , 2023, , .		0
564	Hyperspectral Band Selection based on Spectra Division and Deep Convolutional Neural Network. , 2023, , .		0