

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

83 papers	5,378 citations	29 h-index	73 g-index
86 ext. papers	7,660 ext. citations	4.6 avg, IF	6.89 L-index

#	Paper	IF	Citations
83	Harris hawks optimization: Algorithm and applications. <i>Future Generation Computer Systems</i> , <b>2019</b> , 97, 849-872	7.5	1523
82	Hybrid Whale Optimization Algorithm with simulated annealing for feature selection. <i>Neurocomputing</i> , <b>2017</b> , 260, 302-312	5.4	615
81	Whale optimization approaches for wrapper feature selection. <i>Applied Soft Computing Journal</i> , <b>2018</b> , 62, 441-453	7.5	342
80	An efficient binary Salp Swarm Algorithm with crossover scheme for feature selection problems. <i>Knowledge-Based Systems</i> , <b>2018</b> , 154, 43-67	7.3	339
79	Evolutionary Population Dynamics and Grasshopper Optimization approaches for feature selection problems. <i>Knowledge-Based Systems</i> , <b>2018</b> , 145, 25-45	7.3	243
78	Binary dragonfly optimization for feature selection using time-varying transfer functions. <i>Knowledge-Based Systems</i> , <b>2018</b> , 161, 185-204	7.3	232
77	Binary grasshopper optimisation algorithm approaches for feature selection problems. <i>Expert Systems With Applications</i> , <b>2019</b> , 117, 267-286	7.8	219
76	An intelligent system for spam detection and identification of the most relevant features based on evolutionary Random Weight Networks. <i>Information Fusion</i> , <b>2019</b> , 48, 67-83	16.7	144
75	Asynchronous accelerating multi-leader salp chains for feature selection. <i>Applied Soft Computing Journal</i> , <b>2018</b> , 71, 964-979	7.5	143
74	An evolutionary gravitational search-based feature selection. <i>Information Sciences</i> , <b>2019</b> , 497, 219-239	7.7	118
73	Boosting salp swarm algorithm by sine cosine algorithm and disrupt operator for feature selection. <i>Expert Systems With Applications</i> , <b>2020</b> , 145, 113103	7.8	88
72	Hybrid binary ant lion optimizer with rough set and approximate entropy reducts for feature selection. <i>Soft Computing</i> , <b>2019</b> , 23, 6249-6265	3.5	77
71	Binary Dragonfly Algorithm for Feature Selection <b>2017</b> ,		76
70	An improved Dragonfly Algorithm for feature selection. <i>Knowledge-Based Systems</i> , <b>2020</b> , 203, 106131	7.3	58
69	Iterated feature selection algorithms with layered recurrent neural network for software fault prediction. <i>Expert Systems With Applications</i> , <b>2019</b> , 122, 27-42	7.8	57
68	Feature selection using binary grey wolf optimizer with elite-based crossover for Arabic text classification. <i>Neural Computing and Applications</i> , <b>2020</b> , 32, 12201-12220	4.8	56
67	Efficient Hybrid Nature-Inspired Binary Optimizers for Feature Selection. <i>Cognitive Computation</i> , <b>2020</b> , 12, 150-175	4.4	54

66	Time-varying hierarchical chains of salps with random weight networks for feature selection. <i>Expert Systems With Applications</i> , <b>2020</b> , 140, 112898	7.8	51
65	Clustering analysis using a novel locality-informed grey wolf-inspired clustering approach. <i>Knowledge and Information Systems</i> , <b>2020</b> , 62, 507-539	2.4	45
64	Feature Selection Using Salp Swarm Algorithm with Chaos <b>2018</b> ,		45
63	Ant Lion Optimizer: Theory, Literature Review, and Application in Multi-layer Perceptron Neural Networks. <i>Studies in Computational Intelligence</i> , <b>2020</b> , 23-46	0.8	43
62	A dynamic locality multi-objective salp swarm algorithm for feature selection. <i>Computers and Industrial Engineering</i> , <b>2020</b> , 147, 106628	6.4	40
61	Multi-verse Optimizer: Theory, Literature Review, and Application in Data Clustering. <i>Studies in Computational Intelligence</i> , <b>2020</b> , 123-141	0.8	37
60	Investigating memetic algorithm in solving rough set attribute reduction. <i>International Journal of Computer Applications in Technology</i> , <b>2013</b> , 48, 195	0.7	36
59	Salp Swarm Algorithm: Theory, Literature Review, and Application in Extreme Learning Machines. <i>Studies in Computational Intelligence</i> , <b>2020</b> , 185-199	0.8	36
58	Multilevel threshold image segmentation with diffusion association slime mould algorithm and Renyi's entropy for chronic obstructive pulmonary disease. <i>Computers in Biology and Medicine</i> , <b>2021</b> , 134, 104427	7	34
57	S-Shaped vs. V-Shaped Transfer Functions for Ant Lion Optimization Algorithm in Feature Selection Problem <b>2017</b> ,		31
56	Binary Harris Hawks Optimizer for High-Dimensional, Low Sample Size Feature Selection. <i>Algorithms for Intelligent Systems</i> , <b>2020</b> , 251-272	0.5	30
55	Dragonfly Algorithm: Theory, Literature Review, and Application in Feature Selection. <i>Studies in Computational Intelligence</i> , <b>2020</b> , 47-67	0.8	30
54	Island flower pollination algorithm for global optimization. <i>Journal of Supercomputing</i> , <b>2019</b> , 75, 5280-5323	2.3	29
53	A New Online Learned Interval Type-3 Fuzzy Control System for Solar Energy Management Systems. <i>IEEE Access</i> , <b>2021</b> , 9, 10498-10508	3.5	27
52	Augmented whale feature selection for IoT attacks: Structure, analysis and applications. <i>Future Generation Computer Systems</i> , <b>2020</b> , 112, 18-40	7.5	26
51	A fuzzy record-to-record travel algorithm for solving rough set attribute reduction. <i>International Journal of Systems Science</i> , <b>2015</b> , 46, 503-512	2.3	25
50	Feature selection using binary particle swarm optimization with time varying inertia weight strategies <b>2018</b> ,		23
49	Training neural networks using Salp Swarm Algorithm for pattern classification <b>2018</b> ,		22

48	Random reselection particle swarm optimization for optimal design of solar photovoltaic modules. <i>Energy</i> , <b>2022</b> , 239, 121865	7.9	22
47	Evolving neural networks using bird swarm algorithm for data classification and regression applications. <i>Cluster Computing</i> , <b>2019</b> , 22, 1317-1345	2.1	19
46	Grey Wolf Optimizer: Theory, Literature Review, and Application in Computational Fluid Dynamics Problems. <i>Studies in Computational Intelligence</i> , <b>2020</b> , 87-105	0.8	18
45	A hybrid mine blast algorithm for feature selection problems. <i>Soft Computing</i> , <b>2021</b> , 25, 517-534	3.5	18
44	Performance optimization of differential evolution with slime mould algorithm for multilevel breast cancer image segmentation. <i>Computers in Biology and Medicine</i> , <b>2021</b> , 138, 104910	7	18
43	Island artificial bee colony for global optimization. <i>Soft Computing</i> , <b>2020</b> , 24, 13461-13487	3.5	17
42	Whale Optimisation Algorithm for high-dimensional small-instance feature selection. <i>International Journal of Parallel, Emergent and Distributed Systems</i> , <b>2021</b> , 36, 80-96	1	17
41	Ant colony optimization with Cauchy and greedy Levy mutations for multilevel COVID 19 X-ray image segmentation. <i>Computers in Biology and Medicine</i> , <b>2021</b> , 136, 104609	7	17
40	A bioinformatic variant fruit fly optimizer for tackling optimization problems. <i>Knowledge-Based Systems</i> , <b>2021</b> , 213, 106704	7.3	15
39	Evaluation of constraint in photovoltaic cells using ensemble multi-strategy shuffled frog leading algorithms. <i>Energy Conversion and Management</i> , <b>2021</b> , 244, 114484	10.6	14
38	Dynamic Adaptive Network-Based Fuzzy Inference System (D-ANFIS) for the Imputation of Missing Data for Internet of Medical Things Applications. <i>IEEE Internet of Things Journal</i> , <b>2019</b> , 6, 9316-9325	10.7	12
37	Modified great deluge for attribute reduction in rough set theory <b>2011</b> ,		12
36	Laplacian Nelder-Mead spherical evolution for parameter estimation of photovoltaic models. <i>Energy Conversion and Management</i> , <b>2021</b> , 243, 114223	10.6	12
35	Metaphor-free dynamic spherical evolution for parameter estimation of photovoltaic modules. <i>Energy Reports</i> , <b>2021</b> , 7, 5175-5202	4.6	12
34	Performance optimization of support vector machine with oppositional grasshopper optimization for acute appendicitis diagnosis.. <i>Computers in Biology and Medicine</i> , <b>2022</b> , 143, 105206	7	11
33	Diagnosis of Obstructive Sleep Apnea from ECG Signals Using Machine Learning and Deep Learning Classifiers. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 6622	2.6	10
32	Evolving fuzzy k-nearest neighbors using an enhanced sine cosine algorithm: Case study of lupus nephritis. <i>Computers in Biology and Medicine</i> , <b>2021</b> , 135, 104582	7	10
31	Evolutionary competitive swarm exploring optimal support vector machines and feature weighting. <i>Soft Computing</i> , <b>2021</b> , 25, 3335-3352	3.5	10

30	Optimal Type-3 Fuzzy System for Solving Singular Multi-Pantograph Equations. <i>IEEE Access</i> , <b>2020</b> , 8, 225692-225702		
29	Rank based binary particle swarm optimisation for feature selection in classification <b>2018</b> ,		9
28	Image segmentation of Leaf Spot Diseases on Maize using multi-stage Cauchy-enabled grey wolf algorithm. <i>Engineering Applications of Artificial Intelligence</i> , <b>2022</b> , 109, 104653	7.2	8
27	<b>2019</b> ,		8
26	Teaching Learning-Based Optimization With Evolutionary Binarization Schemes for Tackling Feature Selection Problems. <i>IEEE Access</i> , <b>2021</b> , 9, 41082-41103	3.5	8
25	. <i>IEEE Access</i> , <b>2021</b> , 9, 143824-143835	3.5	7
24	Spatial bound whale optimization algorithm: an efficient high-dimensional feature selection approach. <i>Neural Computing and Applications</i> , <b>2021</b> , 33, 16229	4.8	7
23	Boosted kernel search: Framework, analysis and case studies on the economic emission dispatch problem. <i>Knowledge-Based Systems</i> , <b>2021</b> , 107529	7.3	7
22	Fuzzy Modified Great Deluge Algorithm for Attribute Reduction. <i>Advances in Intelligent Systems and Computing</i> , <b>2014</b> , 195-203	0.4	6
21	Multi-threshold image segmentation using a multi-strategy shuffled frog leaping algorithm. <i>Expert Systems With Applications</i> , <b>2022</b> , 194, 116511	7.8	5
20	Spiral Motion Mode Embedded Grasshopper Optimization Algorithm: Design and Analysis. <i>IEEE Access</i> , <b>2021</b> , 9, 71104-71132	3.5	5
19	BHHO-TVS: A Binary Harris Hawks Optimizer with Time-Varying Scheme for Solving Data Classification Problems. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 6516	2.6	5
18	Flow shop scheduling with blocking using modified harmony search algorithm with neighboring heuristics methods. <i>Applied Soft Computing Journal</i> , <b>2019</b> , 85, 105861	7.5	4
17	Solar radiation estimation in different climates with meteorological variables using Bayesian model averaging and new soft computing models. <i>Energy Reports</i> , <b>2021</b> , 7, 8973-8996	4.6	4
16	A Robust Multi-Objective Feature Selection Model Based on Local Neighborhood Multi-Verse Optimization. <i>IEEE Access</i> , <b>2021</b> , 9, 100009-100028	3.5	4
15	Boolean Particle Swarm Optimization with various Evolutionary Population Dynamics approaches for feature selection problems. <i>Expert Systems With Applications</i> , <b>2022</b> , 195, 116550	7.8	3
14	An Enhanced Evolutionary Student Performance Prediction Model Using Whale Optimization Algorithm Boosted with Sine-Cosine Mechanism. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 10237	2.6	3
13	Generalized Oppositional Moth Flame Optimization with Crossover Strategy: An Approach for Medical Diagnosis. <i>Journal of Bionic Engineering</i> , <b>2021</b> , 18, 991-1010	2.7	3

12	Elite dominance scheme ingrained adaptive salp swarm algorithm: a comprehensive study. <i>Engineering With Computers</i> , 1	4.5	3
11	A decomposition and multi-objective evolutionary optimization model for suspended sediment load prediction in rivers. <i>Engineering Applications of Computational Fluid Mechanics</i> , <b>2021</b> , 15, 1811-1829	4.5	2
10	Comparison between Record to Record Travel and Great Deluge Attribute Reduction Algorithms for Classification Problem. <i>Communications in Computer and Information Science</i> , <b>2013</b> , 111-120	0.3	2
9	Credal decision tree based novel ensemble models for spatial assessment of gully erosion and sustainable management. <i>Scientific Reports</i> , <b>2021</b> , 11, 3147	4.9	2
8	Whale Optimization Algorithm for High-dimensional Small-Instance Feature Selection <b>2018</b> ,		2
7	Soil Erosion Prediction Based on Moth-Flame Optimizer-Evolved Kernel Extreme Learning Machine. <i>Electronics (Switzerland)</i> , <b>2021</b> , 10, 2115	2.6	2
6	Efficient Moth-Flame-Based Neuroevolution Models. <i>Algorithms for Intelligent Systems</i> , <b>2020</b> , 51-66	0.5	1
5	Towards Precision Fertilization: Multi-Strategy Grey Wolf Optimizer Based Model Evaluation and Yield Estimation. <i>Electronics (Switzerland)</i> , <b>2021</b> , 10, 2183	2.6	1
4	Spiral Motion Enhanced Elite Whale Optimizer for Global Tasks. <i>Complexity</i> , <b>2021</b> , 2021, 1-33	1.6	0
3	Binary Thermal Exchange Optimization for Feature Selection. <i>Studies in Big Data</i> , <b>2020</b> , 239-260	0.9	
2	Controlling Population Diversity of Harris Hawks Optimization Algorithm Using Self-adaptive Clustering Approach. <i>Algorithms for Intelligent Systems</i> , <b>2021</b> , 163-175	0.5	
1	Diffusion analysis with high and low concentration regions by the finite difference method, the adaptive network-based fuzzy inference system, and the bilayered neural network method. <i>Engineering Applications of Computational Fluid Mechanics</i> , <b>2021</b> , 15, 1392-1399	4.5	