

Ibrahim Aljarah

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.

116
papers

6,365
citations

36
h-index

78
g-index

123
ext. papers

8,736
ext. citations

3.3
avg, IF

6.95
L-index

#	Paper	IF	Citations
116	Harris hawks optimization: Algorithm and applications. <i>Future Generation Computer Systems</i> , 2019 , 97, 849-872	7.5	1523
115	Optimizing connection weights in neural networks using the whale optimization algorithm. <i>Soft Computing</i> , 2018 , 22, 1-15	3.5	376
114	An efficient binary Salp Swarm Algorithm with crossover scheme for feature selection problems. <i>Knowledge-Based Systems</i> , 2018 , 154, 43-67	7.3	339
113	Grasshopper optimization algorithm for multi-objective optimization problems. <i>Applied Intelligence</i> , 2018 , 48, 805-820	4.9	303
112	Grey wolf optimizer: a review of recent variants and applications. <i>Neural Computing and Applications</i> , 2018 , 30, 413-435	4.8	287
111	Evolutionary Population Dynamics and Grasshopper Optimization approaches for feature selection problems. <i>Knowledge-Based Systems</i> , 2018 , 145, 25-45	7.3	243
110	Binary dragonfly optimization for feature selection using time-varying transfer functions. <i>Knowledge-Based Systems</i> , 2018 , 161, 185-204	7.3	232
109	Binary grasshopper optimisation algorithm approaches for feature selection problems. <i>Expert Systems With Applications</i> , 2019 , 117, 267-286	7.8	219
108	An intelligent system for spam detection and identification of the most relevant features based on evolutionary Random Weight Networks. <i>Information Fusion</i> , 2019 , 48, 67-83	16.7	144
107	Asynchronous accelerating multi-leader salp chains for feature selection. <i>Applied Soft Computing Journal</i> , 2018 , 71, 964-979	7.5	143
106	Training feedforward neural networks using multi-verse optimizer for binary classification problems. <i>Applied Intelligence</i> , 2016 , 45, 322-332	4.9	135
105	Simultaneous Feature Selection and Support Vector Machine Optimization Using the Grasshopper Optimization Algorithm. <i>Cognitive Computation</i> , 2018 , 10, 478-495	4.4	133
104	An efficient hybrid multilayer perceptron neural network with grasshopper optimization. <i>Soft Computing</i> , 2019 , 23, 7941-7958	3.5	129
103	An evolutionary gravitational search-based feature selection. <i>Information Sciences</i> , 2019 , 497, 219-239	7.7	118
102	A multi-verse optimizer approach for feature selection and optimizing SVM parameters based on a robust system architecture. <i>Neural Computing and Applications</i> , 2018 , 30, 2355-2369	4.8	112
101	Improved whale optimization algorithm for feature selection in Arabic sentiment analysis. <i>Applied Intelligence</i> , 2019 , 49, 1688-1707	4.9	101
100	Training radial basis function networks using biogeography-based optimizer. <i>Neural Computing and Applications</i> , 2018 , 29, 529-553	4.8	66

99	Improved monarch butterfly optimization for unconstrained global search and neural network training. <i>Applied Intelligence</i> , 2018 , 48, 445-464	4.9	66
98	Unsupervised intelligent system based on one class support vector machine and Grey Wolf optimization for IoT botnet detection. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2020 , 11, 2809-2825	3.7	65
97	Feature selection using binary grey wolf optimizer with elite-based crossover for Arabic text classification. <i>Neural Computing and Applications</i> , 2020 , 32, 12201-12220	4.8	56
96	Natural selection methods for Grey Wolf Optimizer. <i>Expert Systems With Applications</i> , 2018 , 113, 481-498	7.8	55
95	Efficient Hybrid Nature-Inspired Binary Optimizers for Feature Selection. <i>Cognitive Computation</i> , 2020 , 12, 150-175	4.4	54
94	Time-varying hierarchical chains of salps with random weight networks for feature selection. <i>Expert Systems With Applications</i> , 2020 , 140, 112898	7.8	51
93	An enhanced associative learning-based exploratory whale optimizer for global optimization. <i>Neural Computing and Applications</i> , 2020 , 32, 5185-5211	4.8	50
92	Evolutionary static and dynamic clustering algorithms based on multi-verse optimizer. <i>Engineering Applications of Artificial Intelligence</i> , 2018 , 72, 54-66	7.2	45
91	Parallel particle swarm optimization clustering algorithm based on MapReduce methodology 2012 ,		45
90	Clustering analysis using a novel locality-informed grey wolf-inspired clustering approach. <i>Knowledge and Information Systems</i> , 2020 , 62, 507-539	2.4	45
89	Feature Selection Using Salp Swarm Algorithm with Chaos 2018 ,		45
88	Ant Lion Optimizer: Theory, Literature Review, and Application in Multi-layer Perceptron Neural Networks. <i>Studies in Computational Intelligence</i> , 2020 , 23-46	0.8	43
87	A dynamic locality multi-objective salp swarm algorithm for feature selection. <i>Computers and Industrial Engineering</i> , 2020 , 147, 106628	6.4	40
86	Optimizing the Learning Process of Feedforward Neural Networks Using Lightning Search Algorithm. <i>International Journal on Artificial Intelligence Tools</i> , 2016 , 25, 1650033	0.9	40
85	EvoLoPy: An Open-source Nature-inspired Optimization Framework in Python 2016 ,		39
84	Multi-verse Optimizer: Theory, Literature Review, and Application in Data Clustering. <i>Studies in Computational Intelligence</i> , 2020 , 123-141	0.8	37
83	Automatic selection of hidden neurons and weights in neural networks using grey wolf optimizer based on a hybrid encoding scheme. <i>International Journal of Machine Learning and Cybernetics</i> , 2019 , 10, 2901-2920	3.8	36
82	A new clustering approach based on Glowworm Swarm Optimization 2013 ,		36

81	Salp Swarm Algorithm: Theory, Literature Review, and Application in Extreme Learning Machines. <i>Studies in Computational Intelligence</i> , 2020 , 185-199	0.8	36
80	Preprocessing and analyzing educational data set using X-API for improving student's performance 2015 ,		34
79	MapReduce intrusion detection system based on a particle swarm optimization clustering algorithm 2013 ,		33
78	2015 ,		32
77	An efficient hybrid filter and evolutionary wrapper approach for sentiment analysis of various topics on Twitter. <i>Knowledge-Based Systems</i> , 2020 , 192, 105353	7.3	30
76	Dragonfly Algorithm: Theory, Literature Review, and Application in Feature Selection. <i>Studies in Computational Intelligence</i> , 2020 , 47-67	0.8	30
75	An efficient clustering algorithm based on the k-nearest neighbors with an indexing ratio. <i>International Journal of Machine Learning and Cybernetics</i> , 2020 , 11, 675-714	3.8	29
74	Improving financial bankruptcy prediction in a highly imbalanced class distribution using oversampling and ensemble learning: a case from the Spanish market. <i>Progress in Artificial Intelligence</i> , 2020 , 9, 31-53	4	28
73	Augmented whale feature selection for IoT attacks: Structure, analysis and applications. <i>Future Generation Computer Systems</i> , 2020 , 112, 18-40	7.5	26
72	Evolving Radial Basis Function Networks Using MothBlame Optimizer 2017 , 537-550		25
71	Optimizing Software Effort Estimation Models Using Firefly Algorithm. <i>Journal of Software Engineering and Applications</i> , 2015 , 08, 133-142	0.6	24
70	Parallel glowworm swarm optimization clustering algorithm based on MapReduce 2014 ,		23
69	Adaptive (beta -)hill climbing for optimization. <i>Soft Computing</i> , 2019 , 23, 13489-13512	3.5	20
68	A Hybrid Approach Based on Particle Swarm Optimization and Random Forests for E-Mail Spam Filtering. <i>Lecture Notes in Computer Science</i> , 2016 , 498-508	0.9	20
67	Intelligent detection of hate speech in Arabic social network: A machine learning approach. <i>Journal of Information Science</i> , 2021 , 47, 483-501	2	20
66	Evolving neural networks using bird swarm algorithm for data classification and regression applications. <i>Cluster Computing</i> , 2019 , 22, 1317-1345	2.1	19
65	Software Defect Prediction Using Heterogeneous Ensemble Classification Based on Segmented Patterns. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 1745	2.6	18
64	EvolPy-FS: An Open-Source Nature-Inspired Optimization Framework in Python for Feature Selection. <i>Algorithms for Intelligent Systems</i> , 2020 , 131-173	0.5	18

63	An Evolutionary Fake News Detection Method for COVID-19 Pandemic Information. <i>Symmetry</i> , 2021 , 13, 1091	2.7	18
62	Grey Wolf Optimizer: Theory, Literature Review, and Application in Computational Fluid Dynamics Problems. <i>Studies in Computational Intelligence</i> , 2020 , 87-105	0.8	18
61	Optimizing Extreme Learning Machines Using Chains of Salps for Efficient Android Ransomware Detection. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 3706	2.6	16
60	Hybrid SMOTE-Ensemble Approach for Software Defect Prediction. <i>Advances in Intelligent Systems and Computing</i> , 2017 , 355-366	0.4	14
59	Twitter sentiment analysis: A case study in the automotive industry 2015 ,		14
58	Selecting discriminating terms for bug assignment 2011 ,		14
57	EvoCluster: An Open-Source Nature-Inspired Optimization Clustering Framework in Python. <i>Lecture Notes in Computer Science</i> , 2020 , 20-36	0.9	14
56	An efficient evolutionary algorithm with a nearest neighbor search technique for clustering analysis. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2021 , 12, 8387-8412	3.7	14
55	Towards a scalable intrusion detection system based on parallel PSO clustering using mapreduce 2013 ,		13
54	2016 ,		12
53	Hate Speech Detection using Word Embedding and Deep Learning in the Arabic Language Context 2020 ,		12
52	Multi-objective Particle Swarm Optimization: Theory, Literature Review, and Application in Feature Selection for Medical Diagnosis. <i>Algorithms for Intelligent Systems</i> , 2020 , 175-201	0.5	12
51	Voting-based Classification for E-mail Spam Detection. <i>Journal of ICT Research and Applications</i> , 2016 , 10, 29-42	1.5	11
50	An intelligent feature selection approach based on moth flame optimization for medical diagnosis. <i>Neural Computing and Applications</i> , 2021 , 33, 7165-7204	4.8	11
49	Salp Chain-Based Optimization of Support Vector Machines and Feature Weighting for Medical Diagnostic Information Systems. <i>Algorithms for Intelligent Systems</i> , 2020 , 11-34	0.5	10
48	. <i>IEEE Access</i> , 2021 , 9, 57674-57691	3.5	10
47	An intelligent evolutionary extreme gradient boosting algorithm development for modeling scour depths under submerged weir. <i>Information Sciences</i> , 2021 , 570, 172-184	7.7	10
46	Evolutionary competitive swarm exploring optimal support vector machines and feature weighting. <i>Soft Computing</i> , 2021 , 25, 3335-3352	3.5	10

45	A Modified Multi-objective Particle Swarm Optimizer-Based Lby Flight: An Approach Toward Intrusion Detection in Internet of Things. <i>Arabian Journal for Science and Engineering</i> , 2020 , 45, 6081-6108 ²⁵	9
44	Link Prediction Based on Whale Optimization Algorithm 2017 ,	9
43	A Review of the Modification Strategies of the Nature Inspired Algorithms for Feature Selection Problem. <i>Mathematics</i> , 2022 , 10, 464	2.3 9
42	A Scalable MapReduce-enabled Glowworm Swarm Optimization Approach for High Dimensional Multimodal Functions. <i>International Journal of Swarm Intelligence Research</i> , 2016 , 7, 32-54	1.1 9
41	An Efficient Moth Flame Optimization Algorithm using Chaotic Maps for Feature Selection in the Medical Applications 2020 ,	9
40	Sentiment Analysis for Arabic Language: A Brief Survey of Approaches and Techniques. <i>International Journal of Advanced Science and Technology</i> , 2018 , 119, 13-24	1.2 9
39	An Enhanced Evolutionary Software Defect Prediction Method Using Island Moth Flame Optimization. <i>Mathematics</i> , 2021 , 9, 1722	2.3 9
38	Teaching Learning-Based Optimization With Evolutionary Binarization Schemes for Tackling Feature Selection Problems. <i>IEEE Access</i> , 2021 , 9, 41082-41103	3.5 8
37	A Modified Grey Wolf Optimization Algorithm for an Intrusion Detection System. <i>Mathematics</i> , 2022 , 10, 999	2.3 8
36	A MapReduce based glowworm swarm optimization approach for multimodal functions 2013 ,	7
35	Improving email spam detection using content based feature engineering approach 2017 ,	7
34	Empirical Evaluation of Distance Measures for Nearest Point with Indexing Ratio Clustering Algorithm 2020 ,	7
33	Rank Based Moth Flame optimisation for Feature Selection in the Medical Application 2020 ,	7
32	Relational Learning Analysis of Social Politics using Knowledge Graph Embedding. <i>Data Mining and Knowledge Discovery</i> , 2021 , 35, 1497	5.6 7
31	Multi-objective Particle Swarm Optimization for Botnet Detection in Internet of Things. <i>Algorithms for Intelligent Systems</i> , 2020 , 203-229	0.5 6
30	An evolutionary optimized artificial intelligence model for modeling scouring depth of submerged weir. <i>Engineering Applications of Artificial Intelligence</i> , 2020 , 96, 104012	7.2 6
29	Conformal Prediction Technique to Predict Breast Cancer Survivability. <i>International Journal of Advanced Science and Technology</i> , 2016 , 96, 1-10	1.2 6
28	A Review of Multiobjective Evolutionary Algorithms for Data Clustering Problems. <i>Algorithms for Intelligent Systems</i> , 2021 , 177-199	0.5 6

27	A parallel metaheuristic approach for ensemble feature selection based on multi-core architectures. <i>Expert Systems With Applications</i> , 2021 , 182, 115290	7.8	6
26	A Simultaneous Moth Flame Optimizer Feature Selection Approach Based on Levy Flight and Selection Operators for Medical Diagnosis. <i>Arabian Journal for Science and Engineering</i> , 2021 , 46, 8415-8440	2.5	5
25	Evolutionary inspired approach for mental stress detection using EEG signal. <i>Expert Systems With Applications</i> , 2022 , 197, 116634	7.8	5
24	An Investigation of Microsoft Azure and Amazon Web Services from Users' Perspectives. <i>International Journal of Emerging Technologies in Learning</i> , 2019 , 14, 217	1.4	4
23	Feature Selection using Binary Moth Flame Optimization with Time Varying Flames Strategies 2020 ,		4
22	Introduction to Evolutionary Machine Learning Techniques. <i>Algorithms for Intelligent Systems</i> , 2020 , 1-7	0.5	4
21	Link Prediction Using Evolutionary Neural Network Models. <i>Algorithms for Intelligent Systems</i> , 2020 , 85-113	1.1	4
20	Neuro-evolutionary models for imbalanced classification problems. <i>Journal of King Saud University - Computer and Information Sciences</i> , 2020 ,	2.5	4
19	EvoCluster: An Open-Source Nature-Inspired Optimization Clustering Framework. <i>SN Computer Science</i> , 2021 , 2, 1	2	4
18	A Classification Approach Based on Evolutionary Clustering and Its Application for Ransomware Detection. <i>Algorithms for Intelligent Systems</i> , 2021 , 237-248	0.5	4
17	A Robust Multi-Objective Feature Selection Model Based on Local Neighborhood Multi-Verse Optimization. <i>IEEE Access</i> , 2021 , 9, 100009-100028	3.5	4
16	IoT Botnet Detection Using Salp Swarm and Ant Lion Hybrid Optimization Model. <i>Symmetry</i> , 2021 , 13, 1377	2.7	4
15	New Fitness Functions in Binary Harris Hawks Optimization for Gene Selection in Microarray Datasets 2020 ,		3
14	A cooperative coevolutionary method for optimizing random weight networks and its application for medical classification problems. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2021 , 12, 321-342	3.7	3
13	AutoRWN: automatic construction and training of random weight networks using competitive swarm of agents. <i>Neural Computing and Applications</i> , 2021 , 33, 5507-5524	4.8	3
12	A Comprehensive Review of Evaluation and Fitness Measures for Evolutionary Data Clustering. <i>Algorithms for Intelligent Systems</i> , 2021 , 23-71	0.5	3
11	Estimating ARMA Model Parameters of an Industrial Process Using Meta-Heuristic Search Algorithms. <i>International Journal of Engineering and Technology(UAE)</i> , 2018 , 7, 187	0.8	3
10	CLARM 2011 ,		2

9	An Evolutionary-based Random Weight Networks with Taguchi Method for Arabic Web Pages Classification. <i>Arabian Journal for Science and Engineering</i> , 2021 , 46, 3955-3980	2.5	2
8	Discovering Communities in Social Networks Using Topology and Attributes 2011 ,		1
7	A Grey Wolf-Based Clustering Algorithm for Medical Diagnosis Problems. <i>Algorithms for Intelligent Systems</i> , 2021 , 73-87	0.5	1
6	Introduction to Evolutionary Data Clustering and Its Applications. <i>Algorithms for Intelligent Systems</i> , 2021 , 1-21	0.5	1
5	An Intelligent Web Service Composition and Resource-Optimization Method Using K-Means Clustering and Knapsack Algorithms. <i>Mathematics</i> , 2021 , 9, 2023	2.3	1
4	Salp Swarm Optimization Search Based Feature Selection for Enhanced Phishing Websites Detection. <i>Lecture Notes in Computer Science</i> , 2021 , 146-161	0.9	0
3	Swarm intelligence-based model for improving prediction performance of low-expectation teams in educational software engineering projects.. <i>PeerJ Computer Science</i> , 2022 , 8, e857	2.7	
2	Prediction of Hysteresis Loop of Barium Hexaferrite Nanoparticles Based on Neuroevolutionary Models. <i>Symmetry</i> , 2021 , 13, 1079	2.7	
1	An Enhanced Opposition-Based Evolutionary Feature Selection Approach. <i>Lecture Notes in Computer Science</i> , 2022 , 3-14	0.9	