Ibrahim Aljarah

List of Publications by Year
in descending order

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122 papers	11,184 citations	81743 39 h-index	39575 94 g-index
124 all docs	124 docs citations	124 times ranked	6068 citing authors

#	Article	IF	Citations
1	Harris hawks optimization: Algorithm and applications. Future Generation Computer Systems, 2019, 97, 849-872.	4.9	3,345
2	Grey wolf optimizer: a review of recent variants and applications. Neural Computing and Applications, 2018, 30, 413-435.	3.2	580
3	Optimizing connection weights in neural networks using the whale optimization algorithm. Soft Computing, 2018, 22, 1-15.	2.1	564
4	Grasshopper optimization algorithm for multi-objective optimization problems. Applied Intelligence, 2018, 48, 805-820.	3.3	517
5	An efficient binary Salp Swarm Algorithm with crossover scheme for feature selection problems. Knowledge-Based Systems, 2018, 154, 43-67.	4.0	504
6	Evolutionary Population Dynamics and Grasshopper Optimization approaches for feature selection problems. Knowledge-Based Systems, 2018, 145, 25-45.	4.0	331
7	Binary grasshopper optimisation algorithm approaches for feature selection problems. Expert Systems With Applications, 2019, 117, 267-286.	4.4	330
8	Binary dragonfly optimization for feature selection using time-varying transfer functions. Knowledge-Based Systems, 2018, 161, 185-204.	4.0	318
9	An intelligent system for spam detection and identification of the most relevant features based on evolutionary Random Weight Networks. Information Fusion, 2019, 48, 67-83.	11.7	202
10	An efficient hybrid multilayer perceptron neural network with grasshopper optimization. Soft Computing, 2019, 23, 7941-7958.	2.1	195
11	Improved whale optimization algorithm for feature selection in Arabic sentiment analysis. Applied Intelligence, 2019, 49, 1688-1707.	3.3	193
12	Simultaneous Feature Selection and Support Vector Machine Optimization Using the Grasshopper Optimization Algorithm. Cognitive Computation, 2018, 10, 478-495.	3.6	189
13	Training feedforward neural networks using multi-verse optimizer for binary classification problems. Applied Intelligence, 2016, 45, 322-332.	3.3	176
14	Asynchronous accelerating multi-leader salp chains for feature selection. Applied Soft Computing Journal, 2018, 71, 964-979.	4.1	175
15	An evolutionary gravitational search-based feature selection. Information Sciences, 2019, 497, 219-239.	4.0	175
16	A multi-verse optimizer approach for feature selection and optimizing SVM parameters based on a robust system architecture. Neural Computing and Applications, 2018, 30, 2355-2369.	3.2	166
17	Unsupervised intelligent system based on one class support vector machine and Grey Wolf optimization for IoT botnet detection. Journal of Ambient Intelligence and Humanized Computing, 2020, 11, 2809-2825.	3.3	139
18	Feature selection using binary grey wolf optimizer with elite-based crossover for Arabic text classification. Neural Computing and Applications, 2020, 32, 12201-12220.	3.2	121

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19	Efficient Hybrid Nature-Inspired Binary Optimizers for Feature Selection. Cognitive Computation, 2020, 12, 150-175.	3.6	99
20	An enhanced associative learning-based exploratory whale optimizer for global optimization. Neural Computing and Applications, 2020, 32, 5185-5211.	3.2	96
21	Improved monarch butterfly optimization for unconstrained global search and neural network training. Applied Intelligence, 2018, 48, 445-464.	3.3	86
22	Training radial basis function networks using biogeography-based optimizer. Neural Computing and Applications, 2018, 29, 529-553.	3.2	83
23	Preprocessing and analyzing educational data set using X-API for improving student's performance. , 2015, , .		79
24	Time-varying hierarchical chains of salps with random weight networks for feature selection. Expert Systems With Applications, 2020, 140, 112898.	4.4	75
25	Natural selection methods for Grey Wolf Optimizer. Expert Systems With Applications, 2018, 113, 481-498.	4.4	73
26	Salp Swarm Algorithm: Theory, Literature Review, and Application in Extreme Learning Machines. Studies in Computational Intelligence, 2020, , 185-199.	0.7	71
27	Ant Lion Optimizer: Theory, Literature Review, and Application in Multi-layer Perceptron Neural Networks. Studies in Computational Intelligence, 2020, , 23-46.	0.7	71
28	A dynamic locality multi-objective salp swarm algorithm for feature selection. Computers and Industrial Engineering, 2020, 147, 106628.	3.4	68
29	Automatic selection of hidden neurons and weights in neural networks using grey wolf optimizer based on a hybrid encoding scheme. International Journal of Machine Learning and Cybernetics, 2019, 10, 2901-2920.	2.3	65
30	An Evolutionary Fake News Detection Method for COVID-19 Pandemic Information. Symmetry, 2021, 13, 1091.	1.1	64
31	An efficient hybrid filter and evolutionary wrapper approach for sentiment analysis of various topics on Twitter. Knowledge-Based Systems, 2020, 192, 105353.	4.0	63
32	Clustering analysis using a novel locality-informed grey wolf-inspired clustering approach. Knowledge and Information Systems, 2020, 62, 507-539.	2.1	62
33	A Review of the Modification Strategies of the Nature Inspired Algorithms for Feature Selection Problem. Mathematics, 2022, 10, 464.	1.1	60
34	EvoloPy: An Open-source Nature-inspired Optimization Framework in Python. , 2016, , .		59
35	Evolutionary static and dynamic clustering algorithms based on multi-verse optimizer. Engineering Applications of Artificial Intelligence, 2018, 72, 54-66.	4.3	58
36	Optimizing the Learning Process of Feedforward Neural Networks Using Lightning Search Algorithm. International Journal on Artificial Intelligence Tools, 2016, 25, 1650033.	0.7	57

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37	Feature Selection Using Salp Swarm Algorithm with Chaos. , 2018, , .		56
38	Parallel particle swarm optimization clustering algorithm based on MapReduce methodology. , 2012, , .		55
39	Improving financial bankruptcy prediction in a highly imbalanced class distribution using oversampling and ensemble learning: a case from the Spanish market. Progress in Artificial Intelligence, 2020, 9, 31-53.	1.5	54
40	Augmented whale feature selection for IoT attacks: Structure, analysis and applications. Future Generation Computer Systems, 2020, 112, 18-40.	4.9	52
41	Multi-verse Optimizer: Theory, Literature Review, and Application inÂData Clustering. Studies in Computational Intelligence, 2020, , 123-141.	0.7	48
42	A Modified Grey Wolf Optimization Algorithm for an Intrusion Detection System. Mathematics, 2022, 10, 999.	1.1	48
43	Intelligent detection of hate speech in Arabic social network: A machine learning approach. Journal of Information Science, 2021, 47, 483-501.	2.0	46
44	MapReduce intrusion detection system based on a particle swarm optimization clustering algorithm. , 2013, , .		43
45	A new clustering approach based on Glowworm Swarm Optimization. , 2013, , .		43
46	Optimizing Feedforward neural networks using Krill Herd algorithm for E-mail spam detection. , 2015, , .		42
47	Dragonfly Algorithm: Theory, Literature Review, and Application in Feature Selection. Studies in Computational Intelligence, 2020, , 47-67.	0.7	42
48	Optimizing Software Effort Estimation Models Using Firefly Algorithm. Journal of Software Engineering and Applications, 2015, 08, 133-142.	0.8	41
49	Android Ransomware Detection Based on a Hybrid Evolutionary Approach in the Context of Highly Imbalanced Data. IEEE Access, 2021, 9, 57674-57691.	2.6	40
50	Adaptive $$eta -$$ Î² - hill climbing for optimization. Soft Computing, 2019, 23, 13489-13512.	2.1	39
51	An efficient clustering algorithm based on the k-nearest neighbors with an indexing ratio. International Journal of Machine Learning and Cybernetics, 2020, 11, 675-714.	2.3	39
52	Evolutionary inspired approach for mental stress detection using EEG signal. Expert Systems With Applications, 2022, 197, 116634.	4.4	38
53	Evolving Radial Basis Function Networks Using Mothâ€“Flame Optimizer. , 2017, , 537-550.		37
54	An intelligent feature selection approach based on moth flame optimization for medical diagnosis. Neural Computing and Applications, 2021, 33, 7165-7204.	3.2	37

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55	EvoloPy-FS: An Open-Source Nature-Inspired Optimization Framework in Python for Feature Selection. Algorithms for Intelligent Systems, 2020, , 131-173.	0.5	36
56	Grey Wolf Optimizer: Theory, Literature Review, and Application in Computational Fluid Dynamics Problems. Studies in Computational Intelligence, 2020, , 87-105.	0.7	35
57	Relational Learning Analysis of Social Politics using Knowledge Graph Embedding. Data Mining and Knowledge Discovery, 2021, 35, 1497-1536.	2.4	30
58	An intelligent evolutionary extreme gradient boosting algorithm development for modeling scour depths under submerged weir. Information Sciences, 2021, 570, 172-184.	4.0	30
59	Parallel glowworm swarm optimization clustering algorithm based on MapReduce. , 2014, , .		29
60	Optimizing Extreme Learning Machines Using Chains of Salps for Efficient Android Ransomware Detection. Applied Sciences (Switzerland), 2020, 10, 3706.	1.3	29
61	Hate Speech Detection using Word Embedding and Deep Learning in the Arabic Language Context. , 2020, , .		28
62	A Hybrid Approach Based on Particle Swarm Optimization and Random Forests for E-Mail Spam Filtering. Lecture Notes in Computer Science, 2016, , 498-508.	1.0	25
63	Software Defect Prediction Using Heterogeneous Ensemble Classification Based on Segmented Patterns. Applied Sciences (Switzerland), 2020, 10, 1745.	1.3	25
64	IoT Botnet Detection Using Salp Swarm and Ant Lion Hybrid Optimization Model. Symmetry, 2021, 13, 1377.	1.1	25
65	Hybrid SMOTE-Ensemble Approach for Software Defect Prediction. Advances in Intelligent Systems and Computing, 2017, , 355-366.	0.5	24
66	Evolving neural networks using bird swarm algorithm for data classification and regression applications. Cluster Computing, 2019, 22, 1317-1345.	3.5	24
67	An Enhanced Evolutionary Software Defect Prediction Method Using Island Moth Flame Optimization. Mathematics, 2021, 9, 1722.	1.1	24
68	Twitter sentiment analysis: A case study in the automotive industry. , 2015, , .		23
69	A Modified Multi-objective Particle Swarm Optimizer-Based LÃ©vy Flight: An Approach Toward Intrusion Detection in Internet of Things. Arabian Journal for Science and Engineering, 2020, 45, 6081-6108.	1.7	23
70	A twitter sentiment analysis for cloud providers: A case study of Azure vs. AWS. , 2016, , .		21
71	A parallel metaheuristic approach for ensemble feature selection based on multi-core architectures. Expert Systems With Applications, 2021, 182, 115290.	4.4	21
72	Selecting discriminating terms for bug assignment. , 2011, , .		20

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73	A Simultaneous Moth Flame Optimizer Feature Selection Approach Based on Levy Flight and Selection Operators for Medical Diagnosis. Arabian Journal for Science and Engineering, 2021, 46, 8415-8440.	1.7	19
74	An efficient evolutionary algorithm with a nearest neighbor search technique for clustering analysis. Journal of Ambient Intelligence and Humanized Computing, 2021, 12, 8387-8412.	3.3	18
75	Evolutionary competitive swarm exploring optimal support vector machines and feature weighting. Soft Computing, 2021, 25, 3335-3352.	2.1	18
76	EvoCluster: An Open-Source Nature-Inspired Optimization Clustering Framework in Python. Lecture Notes in Computer Science, 2020, , 20-36.	1.0	18
77	Multi-objective Particle Swarm Optimization: Theory, Literature Review, and Application in Feature Selection for Medical Diagnosis. Algorithms for Intelligent Systems, 2020, , 175-201.	0.5	16
78	Sentiment Analysis for Arabic Language: A Brief Survey of Approaches and Techniques. International Journal of Advanced Science and Technology, 2018, 119, 13-24.	0.3	15
79	Towards a scalable intrusion detection system based on parallel PSO clustering using mapreduce. , 2013, , .		14
80	Teaching Learning-Based Optimization With Evolutionary Binarization Schemes for Tackling Feature Selection Problems. IEEE Access, 2021, 9, 41082-41103.	2.6	14
81	Multi-objective Particle Swarm Optimization for Botnet Detection inÂInternet of Things. Algorithms for Intelligent Systems, 2020, , 203-229.	0.5	14
82	Salp Chain-Based Optimization ofÂSupport Vector Machines and Feature Weighting for Medical Diagnostic Information Systems. Algorithms for Intelligent Systems, 2020, , 11-34.	0.5	14
83	Voting-based Classification for E-mail Spam Detection. Journal of ICT Research and Applications, 2016, 10, 29-42.	0.5	14
84	Improving email spam detection using content based feature engineering approach. , 2017, , .		12
85	An evolutionary optimized artificial intelligence model for modeling scouring depth of submerged weir. Engineering Applications of Artificial Intelligence, 2020, 96, 104012.	4.3	12
86	Rank Based Moth Flame optimisation for Feature Selection in the Medical Application. , 2020, , .		12
87	An Efficient Moth Flame Optimization Algorithm using Chaotic Maps for Feature Selection in the Medical Applications. , 2020, , .		12
88	Link Prediction Based on Whale Optimization Algorithm. , 2017, , .		11
89	A Robust Multi-Objective Feature Selection Model Based on Local Neighborhood Multi-Verse Optimization. IEEE Access, 2021, 9, 100009-100028.	2.6	11
90	A Scalable MapReduce-enabled Glowworm Swarm Optimization Approach for High Dimensional Multimodal Functions. International Journal of Swarm Intelligence Research, 2016, 7, 32-54.	0.5	11

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91	A Classification Approach Based on Evolutionary Clustering and Its Application for Ransomware Detection. Algorithms for Intelligent Systems, 2021, , 237-248.	0.5	10
92	A Real-Time Electrical Load Forecasting in Jordan Using an Enhanced Evolutionary Feedforward Neural Network. Sensors, 2021, 21, 6240.	2.1	10
93	A MapReduce based glowworm swarm optimization approach for multimodal functions. , 2013, , .		9
94	An Investigation of Microsoft Azure and Amazon Web Services from Usersâ€™ Perspectives. International Journal of Emerging Technologies in Learning, 2019, 14, 217.	0.8	9
95	Neuro-evolutionary models for imbalanced classification problems. Journal of King Saud University - Computer and Information Sciences, 2022, 34, 2787-2797.	2.7	9
96	A Review of Multiobjective Evolutionary Algorithms for Data Clustering Problems. Algorithms for Intelligent Systems, 2021, , 177-199.	0.5	9
97	Empirical Evaluation of Distance Measures for Nearest Point with Indexing Ratio Clustering Algorithm. , 2020, , .		9
98	Conformal Prediction Technique to Predict Breast Cancer Survivability. International Journal of Advanced Science and Technology, 2016, 96, 1-10.	0.3	7
99	A Comprehensive Review of Evaluation and Fitness Measures for Evolutionary Data Clustering. Algorithms for Intelligent Systems, 2021, , 23-71.	0.5	7
100	EvoCluster: An Open-Source Nature-Inspired Optimization Clustering Framework. SN Computer Science, 2021, 2, 1.	2.3	6
101	Link Prediction Using Evolutionary Neural Network Models. Algorithms for Intelligent Systems, 2020, , 85-111.	0.5	6
102	New Fitness Functions in Binary Harris Hawks Optimization for Gene Selection in Microarray Datasets. , 2020, , .		6
103	Salp Swarm Optimization Search Based Feature Selection for Enhanced Phishing Websites Detection. Lecture Notes in Computer Science, 2021, , 146-161.	1.0	5
104	Discovering Communities in Social Networks Using Topology and Attributes. , 2011, , .		4
105	A cooperative coevolutionary method for optimizing random weight networks and its application for medical classification problems. Journal of Ambient Intelligence and Humanized Computing, 2021, 12, 321-342.	3.3	4
106	An Evolutionary-based Random Weight Networks with Taguchi Method for Arabic Web Pages Classification. Arabian Journal for Science and Engineering, 2021, 46, 3955-3980.	1.7	4
107	An Intelligent Web Service Composition and Resource-Optimization Method Using K-Means Clustering and Knapsack Algorithms. Mathematics, 2021, 9, 2023.	1.1	4
108	Introduction to Evolutionary Machine Learning Techniques. Algorithms for Intelligent Systems, 2020, , 1-7.	0.5	4

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109	Feature Selection using Binary Moth Flame Optimization with Time Varying Flames Strategies. , 2020, , .		4
110	Estimating ARMA Model Parameters of an Industrial Process Using Meta-Heuristic Search Algorithms. International Journal of Engineering and Technology(UAE), 2018, 7, 187.	0.2	3
111	AutoRWN: automatic construction and training of random weight networks using competitive swarm of agents. Neural Computing and Applications, 2021, 33, 5507-5524.	3.2	3
112	A Grey Wolf-Based Clustering Algorithm for Medical Diagnosis Problems. Algorithms for Intelligent Systems, 2021, , 73-87.	0.5	3
113	CLARM. , 2011, , .		2
114	Binary Harris Hawks Optimisation Filter Based Approach for Feature Selection. , 2021, , .		2
115	Swarm intelligence-based model for improving prediction performance of low-expectation teams in educational software engineering projects. PeerJ Computer Science, 2022, 8, e857.	2.7	2
116	A formal study of classification techniques on entity discovery and their application to opinion mining. , 2010, , .		1
117	Introduction to Evolutionary Data Clustering and Its Applications. Algorithms for Intelligent Systems, 2021, , 1-21.	0.5	1
118	Prediction of Hysteresis Loop of Barium Hexaferrite Nanoparticles Based on Neuroevolutionary Models. Symmetry, 2021, 13, 1079.	1.1	1
119	An Automatic Course Scheduling Approach Using Instructors' Preferences. International Journal of Emerging Technologies in Learning, 2012, 7, 24.	0.8	1
120	An Intelligent Approach for the Effect of Social Media on Undergraduate Students Performance. , 2020, , .		1
121	An Enhanced Opposition-Based Evolutionary Feature Selection Approach. Lecture Notes in Computer Science, 2022, , 3-14.	1.0	1
122	Improving Functional Modules Discovery by Enriching Interaction Networks with Gene Profiles. Current Bioinformatics, 2013, 8, 328-338.	0.7	0