Ibrahim Aljarah

List of Publications by Year in Descending Order

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	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	
115	A Review of the Modification Strategies of the Nature Inspired Algorithms for Feature Selection Problem. *Mathematics*, **2022**, 10, 464	2.3	9
114	A Modified Grey Wolf Optimization Algorithm for an Intrusion Detection System. *Mathematics*, **2022**, 10, 999	2.3	8
113	Evolutionary inspired approach for mental stress detection using EEG signal. *Expert Systems With Applications*, **2022**, 197, 116634	7.8	5
112	An Enhanced Opposition-Based Evolutionary Feature Selection Approach. *Lecture Notes in Computer Science*, **2022**, 3-14	0.9	
111	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	2.5	5
110	EvoCluster: An Open-Source Nature-Inspired Optimization Clustering Framework. *SN Computer Science*, **2021**, 2, 1	2	4
109	Relational Learning Analysis of Social Politics using Knowledge Graph Embedding. *Data Mining and Knowledge Discovery*, **2021**, 35, 1497	5.6	7
108	An Evolutionary Fake News Detection Method for COVID-19 Pandemic Information. *Symmetry*, **2021**, 13, 1091	2.7	18
107	Prediction of Hysteresis Loop of Barium Hexaferrite Nanoparticles Based on Neuroevolutionary Models. *Symmetry*, **2021**, 13, 1079	2.7	
106	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	3.7	3
105	Intelligent detection of hate speech in Arabic social network: A machine learning approach. *Journal of Information Science*, **2021**, 47, 483-501	2	20
104	An efficient evolutionary algorithm with a nearest neighbor search technique for clustering analysis. *Journal of Ambient Intelligence and Humanized Computing*, **2021**, 12, 8387-8412	3.7	14
103	An intelligent feature selection approach based on moth flame optimization for medical diagnosis. *Neural Computing and Applications*, **2021**, 33, 7165-7204	4.8	11
102	AutoRWN: automatic construction and training of random weight networks using competitive swarm of agents. *Neural Computing and Applications*, **2021**, 33, 5507-5524	4.8	3
101	Salp Swarm Optimization Search Based Feature Selection for Enhanced Phishing Websites Detection. *Lecture Notes in Computer Science*, **2021**, 146-161	0.9	0
100	A Comprehensive Review of Evaluation and Fitness Measures for Evolutionary Data Clustering. *Algorithms for Intelligent Systems*, **2021**, 23-71	0.5	3

99	A Grey Wolf-Based Clustering Algorithm for Medical Diagnosis Problems. *Algorithms for Intelligent Systems*, **2021**, 73-87	0.5	1
98	A Classification Approach Based on Evolutionary Clustering and Its Application for Ransomware Detection. *Algorithms for Intelligent Systems*, **2021**, 237-248	0.5	4
97	. *IEEE Access*, **2021**, 9, 57674-57691	3.5	10
96	A Robust Multi-Objective Feature Selection Model Based on Local Neighborhood Multi-Verse Optimization. *IEEE Access*, **2021**, 9, 100009-100028	3.5	4
95	A Review of Multiobjective Evolutionary Algorithms for Data Clustering Problems. *Algorithms for Intelligent Systems*, **2021**, 177-199	0.5	6
94	Teaching Learning-Based Optimization With Evolutionary Binarization Schemes for Tackling Feature Selection Problems. *IEEE Access*, **2021**, 9, 41082-41103	3.5	8
93	Introduction to Evolutionary Data Clustering and Its Applications. *Algorithms for Intelligent Systems*, **2021**, 1-21	0.5	1
92	An Evolutionary-based Random Weight Networks with Taguchi Method for Arabic Web Pages Classification. *Arabian Journal for Science and Engineering*, **2021**, 46, 3955-3980	2.5	2
91	IoT Botnet Detection Using Salp Swarm and Ant Lion Hybrid Optimization Model. *Symmetry*, **2021**, 13, 1377	2.7	4
90	An Enhanced Evolutionary Software Defect Prediction Method Using Island Moth Flame Optimization. *Mathematics*, **2021**, 9, 1722	2.3	9
89	An Intelligent Web Service Composition and Resource-Optimization Method Using K-Means Clustering and Knapsack Algorithms. *Mathematics*, **2021**, 9, 2023	2.3	1
88	An intelligent evolutionary extreme gradient boosting algorithm development for modeling scour depths under submerged weir. *Information Sciences*, **2021**, 570, 172-184	7.7	10
87	A parallel metaheuristic approach for ensemble feature selection based on multi-core architectures. *Expert Systems With Applications*, **2021**, 182, 115290	7.8	6
86	Evolutionary competitive swarm exploring optimal support vector machines and feature weighting. *Soft Computing*, **2021**, 25, 3335-3352	3.5	10
85	A Modified Multi-objective Particle Swarm Optimizer-Based Lévy Flight: An Approach Toward Intrusion Detection in Internet of Things. *Arabian Journal for Science and Engineering*, **2020**, 45, 6081-6108	2.5	9
84	Optimizing Extreme Learning Machines Using Chains of Salps for Efficient Android Ransomware Detection. *Applied Sciences (Switzerland)*, **2020**, 10, 3706	2.6	16
83	A dynamic locality multi-objective salp swarm algorithm for feature selection. *Computers and Industrial Engineering*, **2020**, 147, 106628	6.4	40
82	Software Defect Prediction Using Heterogeneous Ensemble Classification Based on Segmented Patterns. *Applied Sciences (Switzerland)*, **2020**, 10, 1745	2.6	18

81	New Fitness Functions in Binary Harris Hawks Optimization for Gene Selection in Microarray Datasets **2020**,		3
80	Hate Speech Detection using Word Embedding and Deep Learning in the Arabic Language Context **2020**,		12
79	An Efficient Moth Flame Optimization Algorithm using Chaotic Maps for Feature Selection in the Medical Applications **2020**,		9
78	Feature Selection using Binary Moth Flame Optimization with Time Varying Flames Strategies **2020** ,		4
77	Empirical Evaluation of Distance Measures for Nearest Point with Indexing Ratio Clustering Algorithm **2020**,		7
76	EvoCluster: An Open-Source Nature-Inspired Optimization Clustering Framework in Python. *Lecture Notes in Computer Science*, **2020**, 20-36	0.9	14
75	Introduction to Evolutionary Machine Learning Techniques. *Algorithms for Intelligent Systems*, **2020**, 1-7	0.5	4
74	Multi-objective Particle Swarm Optimization for Botnet Detection in Internet of Things. *Algorithms for Intelligent Systems*, **2020**, 203-229	0.5	6
73	Salp Chain-Based Optimization of Support Vector Machines and Feature Weighting for Medical Diagnostic Information Systems. *Algorithms for Intelligent Systems*, **2020**, 11-34	0.5	10
72	Link Prediction Using Evolutionary Neural Network Models. *Algorithms for Intelligent Systems*, **2020**, 85-111	0.5	4
71	EvoloPy-FS: An Open-Source Nature-Inspired Optimization Framework in Python for Feature Selection. *Algorithms for Intelligent Systems*, **2020**, 131-173	0.5	18
70	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	12
69	Augmented whale feature selection for IoT attacks: Structure, analysis and applications. *Future Generation Computer Systems*, **2020**, 112, 18-40	7.5	26
68	Time-varying hierarchical chains of salps with random weight networks for feature selection. *Expert Systems With Applications*, **2020**, 140, 112898	7.8	51
67	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	3.8	29
66	An efficient hybrid filter and evolutionary wrapper approach for sentiment analysis of various topics on Twitter. *Knowledge-Based Systems*, **2020**, 192, 105353	7.3	30
65	An evolutionary optimized artificial intelligence model for modeling scouring depth of submerged weir. *Engineering Applications of Artificial Intelligence*, **2020**, 96, 104012	7.2	6
64	Neuro-evolutionary models for imbalanced classification problems. *Journal of King Saud University - Computer and Information Sciences*, **2020**,	2.5	4

63	Rank Based Moth Flame optimisation for Feature Selection in the Medical Application **2020**,		7
62	An enhanced associative learning-based exploratory whale optimizer for global optimization. *Neural Computing and Applications*, **2020**, 32, 5185-5211	4.8	50
61	Clustering analysis using a novel locality-informed grey wolf-inspired clustering approach. *Knowledge and Information Systems*, **2020**, 62, 507-539	2.4	45
60	Dragonfly Algorithm: Theory, Literature Review, and Application in Feature Selection. *Studies in Computational Intelligence*, **2020**, 47-67	0.8	30
59	Multi-verse Optimizer: Theory, Literature Review, and Application in Data Clustering. *Studies in Computational Intelligence*, **2020**, 123-141	0.8	37
58	Salp Swarm Algorithm: Theory, Literature Review, and Application in Extreme Learning Machines. *Studies in Computational Intelligence*, **2020**, 185-199	0.8	36
57	Ant Lion Optimizer: Theory, Literature Review, and Application in Multi-layer Perceptron Neural Networks. *Studies in Computational Intelligence*, **2020**, 23-46	0.8	43
56	Grey Wolf Optimizer: Theory, Literature Review, and Application in Computational Fluid Dynamics Problems. *Studies in Computational Intelligence*, **2020**, 87-105	0.8	18
55	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	4	28
54	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	3.7	65
53	Feature selection using binary grey wolf optimizer with elite-based crossover for Arabic text classification. *Neural Computing and Applications*, **2020**, 32, 12201-12220	4.8	56
52	Efficient Hybrid Nature-Inspired Binary Optimizers for Feature Selection. *Cognitive Computation*, **2020**, 12, 150-175	4.4	54
51	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	3.8	36
50	An evolutionary gravitational search-based feature selection. *Information Sciences*, **2019**, 497, 219-239	7.7	118
49	Adaptive (beta -)hill climbing for optimization. *Soft Computing*, **2019**, 23, 13489-13512	3.5	20
48	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	16.7	144
47	An efficient hybrid multilayer perceptron neural network with grasshopper optimization. *Soft Computing*, **2019**, 23, 7941-7958	3.5	129
46	An Investigation of Microsoft Azure and Amazon Web Services from Users Perspectives. *International Journal of Emerging Technologies in Learning*, **2019**, 14, 217	1.4	4

45	Harris hawks optimization: Algorithm and applications. *Future Generation Computer Systems*, **2019**, 97, 849-872	7.5	1523
44	Evolving neural networks using bird swarm algorithm for data classification and regression applications. *Cluster Computing*, **2019**, 22, 1317-1345	2.1	19
43	Binary grasshopper optimisation algorithm approaches for feature selection problems. *Expert Systems With Applications*, **2019**, 117, 267-286	7.8	219
42	Improved whale optimization algorithm for feature selection in Arabic sentiment analysis. *Applied Intelligence*, **2019**, 49, 1688-1707	4.9	101
41	Evolutionary static and dynamic clustering algorithms based on multi-verse optimizer. *Engineering Applications of Artificial Intelligence*, **2018**, 72, 54-66	7.2	45
40	Simultaneous Feature Selection and Support Vector Machine Optimization Using the Grasshopper Optimization Algorithm. *Cognitive Computation*, **2018**, 10, 478-495	4.4	133
39	Evolutionary Population Dynamics and Grasshopper Optimization approaches for feature selection problems. *Knowledge-Based Systems*, **2018**, 145, 25-45	7.3	243
38	Training radial basis function networks using biogeography-based optimizer. *Neural Computing and Applications*, **2018**, 29, 529-553	4.8	66
37	Optimizing connection weights in neural networks using the whale optimization algorithm. *Soft Computing*, **2018**, 22, 1-15	3.5	376
36	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	4.8	112
35	Improved monarch butterfly optimization for unconstrained global search and neural network training. *Applied Intelligence*, **2018**, 48, 445-464	4.9	66
34	Binary dragonfly optimization for feature selection using time-varying transfer functions. *Knowledge-Based Systems*, **2018**, 161, 185-204	7.3	232
33	Asynchronous accelerating multi-leader salp chains for feature selection. *Applied Soft Computing Journal*, **2018**, 71, 964-979	7.5	143
32	Natural selection methods for Grey Wolf Optimizer. *Expert Systems With Applications*, **2018**, 113, 481-498	7.8	55
31	An efficient binary Salp Swarm Algorithm with crossover scheme for feature selection problems. *Knowledge-Based Systems*, **2018**, 154, 43-67	7.3	339
30	Grey wolf optimizer: a review of recent variants and applications. *Neural Computing and Applications*, **2018**, 30, 413-435	4.8	287
29	Grasshopper optimization algorithm for multi-objective optimization problems. *Applied Intelligence*, **2018**, 48, 805-820	4.9	303
28	Estimating ARMA Model Parameters of an Industrial Process Using Meta-Heuristic Search Algorithms. *International Journal of Engineering and Technology(UAE)*, **2018**, 7, 187	0.8	3

27	Sentiment Analysis for Arabic Language: A Brief Survey of Approaches and Techniques. *International Journal of Advanced Science and Technology*, **2018**, 119, 13-24	1.2	9
26	Feature Selection Using Salp Swarm Algorithm with Chaos **2018**,		45
25	Hybrid SMOTE-Ensemble Approach for Software Defect Prediction. *Advances in Intelligent Systems and Computing*, **2017**, 355-366	0.4	14
24	Evolving Radial Basis Function Networks Using Moth-Flame Optimizer **2017**, 537-550		25
23	Improving email spam detection using content based feature engineering approach **2017**,		7
22	Link Prediction Based on Whale Optimization Algorithm **2017**,		9
21	**2016**,		12
20	Optimizing the Learning Process of Feedforward Neural Networks Using Lightning Search Algorithm. *International Journal on Artificial Intelligence Tools*, **2016**, 25, 1650033	0.9	40
19	Training feedforward neural networks using multi-verse optimizer for binary classification problems. *Applied Intelligence*, **2016**, 45, 322-332	4.9	135
18	A Scalable MapReduce-enabled Glowworm Swarm Optimization Approach for High Dimensional Multimodal Functions. *International Journal of Swarm Intelligence Research*, **2016**, 7, 32-54	1.1	9
17	EvoloPy: An Open-source Nature-inspired Optimization Framework in Python **2016**,		39
16	Voting-based Classification for E-mail Spam Detection. *Journal of ICT Research and Applications*, **2016**, 10, 29-42	1.5	11
15	Conformal Prediction Technique to Predict Breast Cancer Survivability. *International Journal of Advanced Science and Technology*, **2016**, 96, 1-10	1.2	6
14	A Hybrid Approach Based on Particle Swarm Optimization and Random Forests for E-Mail Spam Filtering. *Lecture Notes in Computer Science*, **2016**, 498-508	0.9	20
13	Twitter sentiment analysis: A case study in the automotive industry **2015**,		14
12	Preprocessing and analyzing educational data set using X-API for improving student's performance **2015**,		34
11	**2015**,		32
10	Optimizing Software Effort Estimation Models Using Firefly Algorithm. *Journal of Software Engineering and Applications*, **2015**, 08, 133-142	0.6	24