

Hossam M Zawbaa

List of Publications by Year in descending order

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Version: 2024-02-01

76
papers

3,851
citations

257357

24
h-index

206029

48
g-index

76
all docs

76
docs citations

76
times ranked

2559
citing authors

#	ARTICLE	IF	CITATIONS
1	Binary grey wolf optimization approaches for feature selection. <i>Neurocomputing</i> , 2016, 172, 371-381.	3.5	1,026
2	Binary ant lion approaches for feature selection. <i>Neurocomputing</i> , 2016, 213, 54-65.	3.5	363
3	The dynamic impact of biomass and natural resources on ecological footprint in BRICS economies: A quantile regression evidence. <i>Energy Reports</i> , 2022, 8, 1979-1994.	2.5	182
4	Experienced Gray Wolf Optimization Through Reinforcement Learning and Neural Networks. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2018, 29, 681-694.	7.2	149
5	Feature Selection via Chaotic Antlion Optimization. <i>PLoS ONE</i> , 2016, 11, e0150652.	1.1	130
6	Feature Subset Selection Approach by Gray-Wolf Optimization. <i>Advances in Intelligent Systems and Computing</i> , 2015, , 1-13.	0.5	118
7	Large-dimensionality small-instance set feature selection: A hybrid bio-inspired heuristic approach. <i>Swarm and Evolutionary Computation</i> , 2018, 42, 29-42.	4.5	102
8	Sine cosine optimization algorithm for feature selection. , 2016, , .		79
9	Residential Demand Side Management model, optimization and future perspective: A review. <i>Energy Reports</i> , 2022, 8, 3727-3766.	2.5	68
10	Impact of Chaos Functions on Modern Swarm Optimizers. <i>PLoS ONE</i> , 2016, 11, e0158738.	1.1	63
11	Feature selection based on antlion optimization algorithm. , 2015, , .		61
12	An improved wild horse optimization algorithm for reliability based optimal DG planning of radial distribution networks. <i>Energy Reports</i> , 2022, 8, 582-604.	2.5	61
13	Feature selection approach based on whale optimization algorithm. , 2017, , .		60
14	Feature selection approach based on moth-flame optimization algorithm. , 2016, , .		58
15	Feature selection via Lévy Antlion optimization. <i>Pattern Analysis and Applications</i> , 2019, 22, 857-876.	3.1	58
16	ArSLAT: Arabic Sign Language Alphabets Translator. , 2010, , .		54
17	Firefly Optimization Algorithm for Feature Selection. , 2015, , .		52
18	Automatic fruit classification using random forest algorithm. , 2014, , .		51

#	ARTICLE	IF	CITATIONS
19	Impact of Lévy flight on modern meta-heuristic optimizers. Applied Soft Computing Journal, 2019, 75, 775-789.	4.1	50
20	Drivers of environmental degradation in Turkey: Designing an SDG framework through advanced quantile approaches. Energy Reports, 2022, 8, 2008-2021.	2.5	44
21	Automatic Nile Tilapia fish classification approach using machine learning techniques. , 2013, , .		42
22	Effect of mutation and vaccination on spread, severity, and mortality of COVID-19 disease. Journal of Medical Virology, 2022, 94, 197-204.	2.5	42
23	Retinal blood vessel localization approach based on bee colony swarm optimization, fuzzy c-means and pattern search. Journal of Visual Communication and Image Representation, 2015, 31, 186-196.	1.7	41
24	Automatic Fruit Image Recognition System Based on Shape and Color Features. Communications in Computer and Information Science, 2014, , 278-290.	0.4	40
25	Retinal vessel segmentation based on possibilistic fuzzy c-means clustering optimised with cuckoo search. , 2014, , .		40
26	Modeling and sensitivity analysis of grid-connected hybrid green microgrid system. Ain Shams Engineering Journal, 2022, 13, 101679.	3.5	38
27	RoadMonitor: An Intelligent Road Surface Condition Monitoring System. Advances in Intelligent Systems and Computing, 2015, , 377-387.	0.5	37
28	Bacillus Calmette-Guérin vaccine, antimalarial, age and gender relation to COVID-19 spread and mortality. Vaccine, 2020, 38, 5564-5568.	1.7	37
29	An innovative approach for feature selection based on chicken swarm optimization. , 2015, , .		35
30	A Cattle Identification Approach Using Live Captured Muzzle Print Images. Communications in Computer and Information Science, 2013, , 143-152.	0.4	33
31	Retinal blood vessel segmentation using bee colony optimisation and pattern search. , 2014, , .		31
32	COVID-19 prediction using LSTM algorithm: GCC case study. Informatics in Medicine Unlocked, 2021, 23, 100566.	1.9	31
33	Machine Learning-Based Soccer Video Summarization System. Communications in Computer and Information Science, 2011, , 19-28.	0.4	31
34	Multi-objective retinal vessel localization using flower pollination search algorithm with pattern search. Advances in Data Analysis and Classification, 2017, 11, 611-627.	0.9	29
35	SVM-based soccer video summarization system. , 2011, , .		27
36	Soccer video summarization using enhanced logo detection. , 2009, , .		26

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37	Computational intelligence modelling of pharmaceutical tableting processes using bio-inspired optimization algorithms. <i>Advanced Powder Technology</i> , 2018, 29, 2966-2977.	2.0	26
38	Does information and communication technology impede environmental degradation? fresh insights from non-parametric approaches. <i>Heliyon</i> , 2022, 8, e09108.	1.4	26
39	Home energy management system considering effective demand response strategies and uncertainties. <i>Energy Reports</i> , 2022, 8, 5256-5271.	2.5	25
40	A hybrid dragonfly algorithm with extreme learning machine for prediction. , 2016, , .		23
41	Computational Intelligence Modeling of the Macromolecules Release from PLGA Microspheresâ€”Focus on Feature Selection. <i>PLoS ONE</i> , 2016, 11, e0157610.	1.1	23
42	Adopting Scenario-Based approach to solve optimal reactive power Dispatch problem with integration of wind and solar energy using improved Marine predator algorithm. <i>Ain Shams Engineering Journal</i> , 2022, 13, 101726.	3.5	23
43	Networks Community Detection Using Artificial Bee Colony Swarm Optimization. <i>Advances in Intelligent Systems and Computing</i> , 2014, , 229-239.	0.5	22
44	An automatic flower classification approach using machine learning algorithms. , 2014, , .		19
45	A study of the possible factors affecting COVIDâ€™19 spread, severity and mortality and the effect of social distancing on these factors: Machine learning forecasting model. <i>International Journal of Clinical Practice</i> , 2021, 75, e14116.	0.8	19
46	Improvement of active distribution systems with high penetration capacities of shunt reactive compensators and distributed generators using Bald Eagle Search. <i>Ain Shams Engineering Journal</i> , 2022, 13, 101792.	3.5	19
47	Hybrid Monkey Algorithm with Krill Herd Algorithm optimization for feature selection. , 2015, , .		16
48	An improved crow search algorithm for solving numerical optimization functions. <i>Soft Computing</i> , 2021, 25, 9441-9454.	2.1	16
49	Retinal Vessel Segmentation Based on Flower Pollination Search Algorithm. <i>Advances in Intelligent Systems and Computing</i> , 2014, , 93-100.	0.5	15
50	Analysis of Power Quality issues of different types of household applications. <i>Energy Reports</i> , 2022, 8, 5370-5386.	2.5	14
51	HSAS: Heart Sound Authentication System. , 2010, , .		13
52	Attribute reduction approach based on modified flower pollination algorithm. , 2015, , .		13
53	Bio-inspired BAT optimization algorithm for handwritten Arabic characters recognition. , 2016, , .		13
54	Improved Squirrel Search Algorithm Driven Cascaded 2DOF-PID-FOI Controller for Load Frequency Control of Renewable Energy Based Hybrid Power System. <i>IEEE Access</i> , 2022, 10, 46372-46391.	2.6	12

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55	PCA-based home videos annotation system. International Journal of Reasoning-based Intelligent Systems, 2011, 3, 71.	0.1	11
56	Applications of Flower Pollination Algorithm in Feature Selection and Knapsack Problems. Studies in Computational Intelligence, 2018, , 217-243.	0.7	11
57	A Fish Detection Approach Based on BAT Algorithm. Advances in Intelligent Systems and Computing, 2016, , 273-283.	0.5	11
58	A proposed whale search algorithm with adaptive random walk. , 2017, , .		10
59	Automated zebrafish-based toxicity test using Bat optimization and AdaBoost classifier. , 2015, , .		9
60	Hybrid flower pollination algorithm with rough sets for feature selection. , 2015, , .		9
61	A novel global harmony search algorithm for solving numerical optimizations. Soft Computing, 2021, 25, 2837-2849.	2.1	9
62	An evaluation of different bio-inspired feature selection techniques on multivariate calibration models in spectroscopy. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 246, 119042.	2.0	9
63	A wrapper approach for feature selection based on swarm optimization algorithm inspired from the behavior of social-spiders. , 2015, , .		8
64	Interconnection and damping assignment passivity-based non-linear observer control for efficiency maximization of permanent magnet synchronous motor. Energy Reports, 2022, 8, 1350-1361.	2.5	8
65	A hybrid machine learning technique for feature optimization in object-based classification of debris-covered glaciers. Ain Shams Engineering Journal, 2022, 13, 101809.	3.5	8
66	Blind Watermark Approach for Map Authentication Using Support Vector Machine. Communications in Computer and Information Science, 2013, , 84-97.	0.4	5
67	Generalized regression neural network and fitness dependent optimization: Application to energy harvesting of centralized TEG systems. Energy Reports, 2022, 8, 6332-6346.	2.5	4
68	In vitro and in vivo performance modelling and optimisation of different dry powder inhalers: A complementary study of neural networks, genetic algorithms and decision trees. International Journal of Clinical Practice, 2021, 75, e13764.	0.8	3
69	Effect of cryogenic treatment on drill tool for enhancing metal cutting operation of aluminium alloy IS737.Gr19000. Journal of Materials Research and Technology, 2022, 18, 1488-1501.	2.6	3
70	Diagnosis of breast cancer using secured classifiers. , 2017, , .		2
71	Optimal allocation of distributed generation with the presence of photovoltaic and battery energy storage system using improved barnacles mating optimizer. Energy Science and Engineering, 2022, 10, 2970-3000.	1.9	2
72	Semi-automatic annotation system for home videos. , 2010, , .		1

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73	A rough set-based reasoner for medical diagnosis. , 2015, , .		1
74	Rough Power Set Tree for Feature Selection and Classification: Case Study on MRI Brain Tumor. Advances in Intelligent Systems and Computing, 2014, , 259-270.	0.5	1
75	Hajj human event classification system using machine learning techniques. , 2013, , .		0
76	Hybrid Biometrics and Watermarking Authentication. Advances in Information Security, Privacy, and Ethics Book Series, 2017, , 37-61.	0.4	0