

Hamza Turabieh

List of Publications by Year in descending order

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83
papers

2,096
citations

218592

26
h-index

276775

41
g-index

85
all docs

85
docs citations

85
times ranked

1147
citing authors

#	ARTICLE	IF	CITATIONS
1	Double adaptive weights for stabilization of moth flame optimizer: Balance analysis, engineering cases, and medical diagnosis. Knowledge-Based Systems, 2021, 214, 106728.	4.0	144
2	Iterated feature selection algorithms with layered recurrent neural network for software fault prediction. Expert Systems With Applications, 2019, 122, 27-42.	4.4	114
3	A New Online Learned Interval Type-3 Fuzzy Control System for Solar Energy Management Systems. IEEE Access, 2021, 9, 10498-10508.	2.6	91
4	Boosted kernel search: Framework, analysis and case studies on the economic emission dispatch problem. Knowledge-Based Systems, 2021, 233, 107529.	4.0	91
5	Multilevel threshold image segmentation with diffusion association slime mould algorithm and Renyi's entropy for chronic obstructive pulmonary disease. Computers in Biology and Medicine, 2021, 134, 104427.	3.9	79
6	Ant colony optimization with Cauchy and greedy Levy mutations for multilevel COVID 19 X-ray image segmentation. Computers in Biology and Medicine, 2021, 136, 104609.	3.9	69
7	Performance optimization of differential evolution with slime mould algorithm for multilevel breast cancer image segmentation. Computers in Biology and Medicine, 2021, 138, 104910.	3.9	64
8	Enhanced Binary Moth Flame Optimization as a Feature Selection Algorithm to Predict Software Fault Prediction. IEEE Access, 2020, 8, 8041-8055.	2.6	61
9	Generating University Course Timetable Using Genetic Algorithms and Local Search. , 2008, , .		60
10	On the use of multi neighbourhood structures within a Tabu-based memetic approach to university timetabling problems. Information Sciences, 2012, 191, 146-168.	4.0	59
11	A hybrid metaheuristic approach to the university course timetabling problem. Journal of Heuristics, 2012, 18, 1-23.	1.1	58
12	Performance optimization of support vector machine with oppositional grasshopper optimization for acute appendicitis diagnosis. Computers in Biology and Medicine, 2022, 143, 105206.	3.9	57
13	Random learning gradient based optimization for efficient design of photovoltaic models. Energy Conversion and Management, 2021, 230, 113751.	4.4	53
14	Corn Leaf Diseases Diagnosis Based on K-Means Clustering and Deep Learning. IEEE Access, 2021, 9, 143824-143835.	2.6	53
15	An integrated hybrid approach to the examination timetabling problem. Omega, 2011, 39, 598-607.	3.6	46
16	Multi-threshold image segmentation using a multi-strategy shuffled frog leaping algorithm. Expert Systems With Applications, 2022, 194, 116511.	4.4	46
17	Boosted Whale Optimization Algorithm With Natural Selection Operators for Software Fault Prediction. IEEE Access, 2021, 9, 14239-14258.	2.6	39
18	Laplacian Nelder-Mead spherical evolution for parameter estimation of photovoltaic models. Energy Conversion and Management, 2021, 243, 114223.	4.4	37

#	ARTICLE	IF	CITATIONS
19	Enhanced Harris Hawks optimization as a feature selection for the prediction of student performance. Computing (Vienna/New York), 2021, 103, 1417-1438.	3.2	37
20	Diagnosis of Obstructive Sleep Apnea from ECG Signals Using Machine Learning and Deep Learning Classifiers. Applied Sciences (Switzerland), 2021, 11, 6622.	1.3	36
21	Gaussian Barebone Salp Swarm Algorithm with Stochastic Fractal Search for medical image segmentation: A COVID-19 case study. Computers in Biology and Medicine, 2021, 139, 104941.	3.9	36
22	Evolving fuzzy k-nearest neighbors using an enhanced sine cosine algorithm: Case study of lupus nephritis. Computers in Biology and Medicine, 2021, 135, 104582.	3.9	34
23	Evolutionary shuffled frog leaping with memory pool for parameter optimization. Energy Reports, 2021, 7, 584-606.	2.5	32
24	Metaphor-free dynamic spherical evolution for parameter estimation of photovoltaic modules. Energy Reports, 2021, 7, 5175-5202.	2.5	32
25	Boolean Particle Swarm Optimization with various Evolutionary Population Dynamics approaches for feature selection problems. Expert Systems With Applications, 2022, 195, 116550.	4.4	32
26	Delayed dynamic step shuffling frog-leaping algorithm for optimal design of photovoltaic models. Energy Reports, 2021, 7, 228-246.	2.5	30
27	Dynamic L-RNN recovery of missing data in IoMT applications. Future Generation Computer Systems, 2018, 89, 575-583.	4.9	29
28	Electromagnetism-like Mechanism with Force Decay Rate Great Deluge for the Course Timetabling Problem. Lecture Notes in Computer Science, 2009, , 497-504.	1.0	28
29	Hybrid Machine Learning Classifiers to Predict Student Performance. , 2019, , .		27
30	Optimal Type-3 Fuzzy System for Solving Singular Multi-Pantograph Equations. IEEE Access, 2020, 8, 225692-225702.	2.6	26
31	Evaluation of constraint in photovoltaic cells using ensemble multi-strategy shuffled frog leading algorithms. Energy Conversion and Management, 2021, 244, 114484.	4.4	25
32	Solar radiation estimation in different climates with meteorological variables using Bayesian model averaging and new soft computing models. Energy Reports, 2021, 7, 8973-8996.	2.5	25
33	Dynamic Adaptive Network-Based Fuzzy Inference System (D-ANFIS) for the Imputation of Missing Data for Internet of Medical Things Applications. IEEE Internet of Things Journal, 2019, 6, 9316-9325.	5.5	24
34	New empirical nonparametric kernels for support vector machine classification. Applied Soft Computing Journal, 2013, 13, 1759-1765.	4.1	21
35	Enhanced binary genetic algorithm as a feature selection to predict student performance. Soft Computing, 2022, 26, 1811-1823.	2.1	21
36	A Hybridization of Electromagnetic-Like Mechanism and Great Deluge for Examination Timetabling Problems. Lecture Notes in Computer Science, 2009, , 60-72.	1.0	20

#	ARTICLE	IF	CITATIONS
37	Incorporating tabu search into memetic approach for enrolment-based course timetabling problems. , 2009, , .		19
38	A novel lifetime scheme for enhancing the convergence performance of salp swarm algorithm. Soft Computing, 2021, 25, 181-206.	2.1	19
39	Intelligent Detection of False Information in Arabic Tweets Utilizing Hybrid Harris Hawks Based Feature Selection and Machine Learning Models. Symmetry, 2021, 13, 556.	1.1	18
40	Optimization of PID Controller to Stabilize Quadcopter Movements Using Meta-Heuristic Search Algorithms. Applied Sciences (Switzerland), 2021, 11, 6492.	1.3	18
41	BHHO-TVS: A Binary Harris Hawks Optimizer with Time-Varying Scheme for Solving Data Classification Problems. Applied Sciences (Switzerland), 2021, 11, 6516.	1.3	17
42	Credal decision tree based novel ensemble models for spatial assessment of gully erosion and sustainable management. Scientific Reports, 2021, 11, 3147.	1.6	15
43	An effective model for predicting serum albumin level in hemodialysis patients. Computers in Biology and Medicine, 2022, 140, 105054.	3.9	15
44	A Hybrid Fish Swarm Optimisation Algorithm for Solving Examination Timetabling Problems. Lecture Notes in Computer Science, 2011, , 539-551.	1.0	14
45	Teaching Learning-Based Optimization With Evolutionary Binarization Schemes for Tackling Feature Selection Problems. IEEE Access, 2021, 9, 41082-41103.	2.6	14
46	Image Retrieval Using Different Distance Methods and Color Difference Histogram Descriptor for Human Healthcare. Journal of Healthcare Engineering, 2022, 2022, 1-10.	1.1	14
47	Predicting the Existence of COVID-19 using Machine Learning Based on Laboratory Findings. , 2021, , .		13
48	Generalized Oppositional Moth Flame Optimization with Crossover Strategy: An Approach for Medical Diagnosis. Journal of Bionic Engineering, 2021, 18, 991-1010.	2.7	12
49	Spiral Motion Enhanced Elite Whale Optimizer for Global Tasks. Complexity, 2021, 2021, 1-33.	0.9	11
50	Enhanced Virtualization-Based Dynamic Bin-Packing Optimized Energy Management Solution for Heterogeneous Clouds. Mathematical Problems in Engineering, 2022, 2022, 1-11.	0.6	11
51	A constructive hyper-heuristics for rough set attribute reduction. , 2010, , .		10
52	An Enhanced Evolutionary Student Performance Prediction Model Using Whale Optimization Algorithm Boosted with Sine-Cosine Mechanism. Applied Sciences (Switzerland), 2021, 11, 10237.	1.3	10
53	Computational Methods for Automated Analysis of Malaria Parasite Using Blood Smear Images: Recent Advances. Computational Intelligence and Neuroscience, 2022, 2022, 1-18.	1.1	10
54	Spiral Motion Mode Embedded Grasshopper Optimization Algorithm: Design and Analysis. IEEE Access, 2021, 9, 71104-71132.	2.6	9

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55	Elite dominance scheme ingrained adaptive salp swarm algorithm: a comprehensive study. Engineering With Computers, 0, , 1.	3.5	9
56	Gaussian bareâ€bones gradientâ€based optimization: Towards mitigating the performance concerns. International Journal of Intelligent Systems, 2022, 37, 3193-3254.	3.3	9
57	SWOT: A Hybrid Hardware-Based Approach for Robust Fault-Tolerant Framework in a Smart Day Care. Security and Communication Networks, 2022, 2022, 1-16.	1.0	9
58	Fish Swarm Intelligent Algorithm for the Course Timetabling Problem. Lecture Notes in Computer Science, 2010, , 588-595.	1.0	8
59	SAS Mobile Application for Diagnosis of Obstructive Sleep Apnea Utilizing Machine Learning Models. , 2020, , .		7
60	Cascaded Layered Recurrent Neural Network for Indoor Localization in Wireless Sensor Networks. , 2019, , .		6
61	Towards Precision Fertilization: Multi-Strategy Grey Wolf Optimizer Based Model Evaluation and Yield Estimation. Electronics (Switzerland), 2021, 10, 2183.	1.8	6
62	A Tabu-Based Memetic Approach for Examination Timetabling Problems. Lecture Notes in Computer Science, 2010, , 574-581.	1.0	6
63	Exploration of Crucial Factors Involved in Plants Development Using the Fuzzy AHP Method. Mathematical Problems in Engineering, 2022, 2022, 1-9.	0.6	6
64	Optimized CNN-Based Recognition of District Names of Punjab State in Gurmukhi Script. Journal of Mathematics, 2022, 2022, 1-10.	0.5	6
65	DIAGNOSIS OF SLEEP APNEA USING ARTIFICIAL NEURAL NETWORK AND BINARY PARTICLE SWARM OPTIMIZATION FOR FEATURE SELECTION. Chest, 2019, 156, A136.	0.4	4
66	A multi-objective post enrolment course timetabling problems: A new case study. , 2010, , .		3
67	Soil Erosion Prediction Based on Moth-Flame Optimizer-Evolved Kernel Extreme Learning Machine. Electronics (Switzerland), 2021, 10, 2115.	1.8	3
68	River Flow Forecasting: A Comparison Between Feedforward and Layered Recurrent Neural Network. Learning and Analytics in Intelligent Systems, 2020, , 523-532.	0.5	3
69	Road Damage Detection Utilizing Convolution Neural Network and Principal Component Analysis. International Journal of Advanced Computer Science and Applications, 2020, 11, .	0.5	3
70	Analysis of COVID-19 severity from the perspective of coagulation index using evolutionary machine learning with enhanced brain storm optimization. Journal of King Saud University - Computer and Information Sciences, 2022, 34, 4874-4887.	2.7	2
71	A Layered Recurrent Neural Network for Imputing Air Pollutants Missing Data and Prediction of NO2, O3, PM10, and PM2.5. , 0, , .		2
72	Diagnosis of Obstructive Sleep Apnea Using Logistic Regression and Artificial Neural Networks Models. Advances in Intelligent Systems and Computing, 2020, , 766-784.	0.5	2

#	ARTICLE	IF	CITATIONS
73	Medical Data Classification Using Binary Brain Storm Optimization Algorithm. , 2019, , .		2
74	Optimization of Mental Health-Related Critical Barriers in IoT-Based Teaching Methodology. Computational Intelligence and Neuroscience, 2022, 2022, 1-8.	1.1	2
75	Computational Intelligence-Based Method for Automated Identification of COVID-19 and Pneumonia by Utilizing CXR Scans. Computational Intelligence and Neuroscience, 2022, 2022, 1-12.	1.1	2
76	University course timetabling problem at Zarqa University. , 2012, , .		1
77	ADABOOSTING MODEL FOR DETECTING OSA. Chest, 2019, 156, A134-A135.	0.4	1
78	Intrusion Detection using Deep Learning Long Short-term Memory with Wrapper Feature Selection Method. International Journal of Advanced Computer Science and Applications, 2021, 12, .	0.5	1
79	Multiple Waypoint Mobile Robot Path Planning Using Neighborhood Search Genetic Algorithms. , 2019, , .		1
80	Pavement Crack Detection Using Convolutional Neural Network. , 0, , .		1
81	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. Engineering Applications of Computational Fluid Mechanics, 2021, 15, 1392-1399.	1.5	0
82	Hybrid Machine Learning Classifiers for Indoor User Localization Problem. International Journal of Innovative Technology and Exploring Engineering, 2021, 10, 49-53.	0.2	0
83	An Efficient Approach for Storage of Big Data Streams in Distributed Stream Processing Systems. International Journal of Advanced Computer Science and Applications, 2020, 11, .	0.5	0