Hafiz Tayyab Rauf

List of Publications by Year
in descending order

68 papers	1,657 citations	257450 24 h-index	345221 36 g-index
71 all docs	71 docs citations	71 times ranked	995 citing authors

#	Article	IF	Citations
1	Time series forecasting of COVID-19 transmission in Asia Pacific countries using deep neural networks. Personal and Ubiquitous Computing, 2023, 27, 733-750.	2.8	52
2	Cognitive population initialization for swarm intelligence and evolutionary computing. Journal of Ambient Intelligence and Humanized Computing, 2022, 13, 5847-5860.	4.9	3
3	5G based Blockchain network for authentic and ethical keyword search engine. IET Communications, 2022, 16, 442-448.	2.2	28
4	Planning a secure and reliable IoT-enabled FOG-assisted computing infrastructure for healthcare. Cluster Computing, 2022, 25, 2143-2161.	5.0	25
5	A Lightweight Approach for Skin Lesion Detection Through Optimal Features Fusion. Computers, Materials and Continua, 2022, 70, 1617-1630.	1.9	11
6	DeepResGRU: Residual gated recurrent neural network-augmented Kalman filtering for speech enhancement and recognition. Knowledge-Based Systems, 2022, 238, 107914.	7.1	19
7	Design of Metaheuristic Optimization-Based Vascular Segmentation Techniques for Photoacoustic Images. Contrast Media and Molecular Imaging, 2022, 2022, 1-12.	0.8	4
8	Achieving data privacy for decision support systems in times of massive data sharing. Cluster Computing, 2022, 25, 3037-3049.	5.0	5
9	Multi-Factor Rear-End Collision Avoidance in Connected Autonomous Vehicles. Applied Sciences (Switzerland), 2022, 12, 1049.	2.5	5
10	Gulf Countries' Citizens' Acceptance of COVID-19 Vaccines—A Machine Learning Approach. Mathematics, 2022, 10, 467.	2.2	14
11	Guava Disease Detection Using Deep Convolutional Neural Networks: A Case Study of Guava Plants. Applied Sciences (Switzerland), 2022, 12, 239.	2.5	30
12	A Novel Hybrid Approach Based on Deep CNN to Detect Glaucoma Using Fundus Imaging. Electronics (Switzerland), 2022, 11, 26.	3.1	44
13	Collaborative multi-agents in dynamic industrial internet of things using deep reinforcement learning. Environment, Development and Sustainability, 2022, 24, 9481-9499.	5.0	3
14	A Novel text2IMG Mechanism of Credit Card Fraud Detection: A Deep Learning Approach. Electronics (Switzerland), 2022, 11, 756.	3.1	27
15	Service Recommendations Using a Hybrid Approach in Knowledge Graph with Keyword Acceptance Criteria. Applied Sciences (Switzerland), 2022, 12, 3544.	2.5	1
16	A novel CAPTCHA solver framework using deep skipping Convolutional Neural Networks. PeerJ Computer Science, 2022, 8, e879.	4.5	5
17	Hybrid Deep Learning Model for Endoscopic Lesion Detection and Classification Using Endoscopy Videos. Diagnostics, 2022, 12, 43.	2.6	12
18	Notice of Violation of IEEE Publication Principles: Secured Wireless Energy Transfer for the Internet of Everything in Ambient Intelligent Environments. IEEE Internet of Things Magazine, 2022, 5, 62-66.	2.6	4

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19	Detecting Malignant Leukemia Cells Using Microscopic Blood Smear Images: A Deep Learning Approach. Applied Sciences (Switzerland), 2022, 12, 6317.	2.5	13
20	Improved Fitness-Dependent Optimizer for Solving Economic Load Dispatch Problem. Computational Intelligence and Neuroscience, 2022, 2022, 1-16.	1.7	0
21	Lung nodules detection using semantic segmentation and classification with optimal features. Neural Computing and Applications, 2021, 33, 10737-10750.	5.6	55
22	Predicting the Type of Crime: Intelligence Gathering and Crime Analysis. Computers, Materials and Continua, 2021, 66, 2317-2341.	1.9	8
23	Proactive Scheduling and Resource Management for Connected Autonomous Vehicles: A Data Science Perspective. IEEE Sensors Journal, 2021, 21, 25151-25160.	4.7	20
24	The Recent Technologies to Curb the Second-Wave of COVID-19 Pandemic. IEEE Access, 2021, 9, 97906-97928.	4.2	17
25	Identification of Thoracic Diseases by Exploiting Deep Neural Networks. Computers, Materials and Continua, 2021, 66, 3139-3149.	1.9	16
26	COVID-19 Public Sentiment Insights: A Text Mining Approach to the Gulf Countries. Computers, Materials and Continua, 2021, 67, 1613-1627.	1.9	29
27	Comparison of Different Bat Initialization Techniques for Global Optimization Problems. International Journal of Applied Metaheuristic Computing, 2021, 12, 157-184.	0.7	2
28	A hybrid algorithm (BAPSO) for capacity configuration optimization in a distributed solar PV based microgrid. Energy Reports, 2021, 7, 7906-7912.	5.1	35
29	Breast-Cancer Detection using Thermal Images with Marine-Predators-Algorithm Selected Features. , 2021, , .		26
30	Automated Detection of Brain Abnormality using Deep-Learning-Scheme: A Study. , 2021, , .		14
31	Machine-Learning-Scheme to Detect Choroidal-Neovascularization in Retinal OCT Image. , 2021, , .		15
32	AI-driven deep CNN approach for multi-label pathology classification using chest X-Rays. PeerJ Computer Science, 2021, 7, e495.	4.5	45
33	Botnet Attack Detection Using Local Global Best Bat Algorithm for Industrial Internet of Things. Electronics (Switzerland), 2021, 10, 1341.	3.1	62
34	Deep CNN-based autonomous system for safety measures in logistics transportation. Soft Computing, 2021, 25, 12357-12370.	3.6	10
35	AI-Driven Framework for Recognition of Guava Plant Diseases through Machine Learning from DSLR Camera Sensor Based High Resolution Imagery. Sensors, 2021, 21, 3830.	3.8	78
36	Adversarial Attack and Defence through Adversarial Training and Feature Fusion for Diabetic Retinopathy Recognition. Sensors, 2021, 21, 3922.	3.8	57

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37	An adaptive hybrid differential evolution algorithm for continuous optimization and classification problems. Neural Computing and Applications, 2021, 33, 10841-10867.	5.6	24
38	Dilated Semantic Segmentation for Breast Ultrasonic Lesion Detection Using Parallel Feature Fusion. Diagnostics, 2021, 11, 1212.	2.6	59
39	An Attribute-Based Access Control for IoT Using Blockchain and Smart Contracts. Sustainability, 2021, 13, 10556.	3.2	26
40	A Self-Activated CNN Approach for Multi-Class Chest-Related COVID-19 Detection. Applied Sciences (Switzerland), 2021, 11, 9023.	2.5	44
41	A Deep Learning Based Approach for Patient Pulmonary CT Image Screening to Predict Coronavirus (SARS-CoV-2) Infection. Diagnostics, 2021, 11, 1735.	2.6	11
42	A Novel Hybrid Approach Based on Deep CNN Features to Detect Knee Osteoarthritis. Sensors, 2021, 21, 6189.	3.8	52
43	Intelligent scaling for 6G IoE services for resource provisioning. PeerJ Computer Science, 2021, 7, e755.	4.5	5
44	Comparison of Probability Distributions for Evolving Artificial Neural Networks Using Bat Algorithm. Advances in Intelligent Systems and Computing, 2021, , 97-104.	0.6	0
45	MMDD-Ensemble: A Multimodal Data–Driven Ensemble Approach for Parkinson's Disease Detection. Frontiers in Neuroscience, 2021, 15, 754058.	2.8	29
46	Trust-Based Petri Net Model for Fault Detection and Treatment in Automated Manufacturing Systems. IEEE Access, 2021, 9, 157997-158009.	4.2	7
47	Federated Transfer Learning for Authentication and Privacy Preservation Using Novel Supportive Twin Delayed DDPG (S-TD3) Algorithm for IIoT. Sensors, 2021, 21, 7793.	3.8	29
48	Abnormal Respiratory Sounds Classification Using Deep CNN Through Artificial Noise Addition. Frontiers in Medicine, 2021, 8, 714811.	2.6	19
49	A quantization assisted U-Net study with ICA and deep features fusion for breast cancer identification using ultrasonic data. PeerJ Computer Science, 2021, 7, e805.	4.5	22
50	A Novel Security Mechanism of 6G for IMD using Authentication and Key Agreement Scheme. , 2021, , .		31
51	Bat algorithm with Weibull walk for solving global optimisation and classification problems. International Journal of Bio-Inspired Computation, 2020, 15, 159.	0.9	7
52	Training of Artificial Neural Network Using New Initialization Approach of Particle Swarm Optimization for Data Classification. , 2020, , .		4
53	Particle Swarm Optimization With Probability Sequence for Global Optimization. IEEE Access, 2020, 8, 110535-110549.	4.2	35
54	Adaptive inertia weight Bat algorithm with Sugeno-Function fuzzy search. Applied Soft Computing Journal, 2020, 90, 106159.	7.2	52

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55	A modified bat algorithm with torus walk for solving global optimisation problems. International Journal of Bio-Inspired Computation, 2020, 15, 1.	0.9	28
56	Bat algorithm with Weibull walk for solving global optimisation and classification problems. International Journal of Bio-Inspired Computation, 2020, 15, 159.	0.9	0
57	An Overview of Mutation Strategies in Particle Swarm Optimization. International Journal of Applied Metaheuristic Computing, 2020, 11, 16-37.	0.7	1
58	Fish-Pak: Fish species dataset from Pakistan for visual features based classification. Data in Brief, 2019, 27, 104565.	1.0	23
59	A citrus fruits and leaves dataset for detection and classification of citrus diseases through machine learning. Data in Brief, 2019, 26, 104340.	1.0	129
60	Visual features based automated identification of fish species using deep convolutional neural networks. Computers and Electronics in Agriculture, 2019, 167, 105075.	7.7	92
61	Bat Algorithm with Different Initialization Approaches for Numerical Optimization. , 2019, , .		1
62	Optimization of Neural Network Using Improved Bat Algorithm for Data Classification. Journal of Medical Imaging and Health Informatics, 2019, 9, 670-681.	0.3	45
63	An Improved Particle Swarm Optimization Algorithm with Chi-Square Mutation Strategy. International Journal of Advanced Computer Science and Applications, 2019, 10, .	0.7	9
64	Evolving Artificial Neural Networks Using Opposition Based Particle Swarm Optimization Neural Network for Data Classification. , 2018, , .		6
65	Training of Artificial Neural Network Using PSO With Novel Initialization Technique. , 2018, , .		8
66	An Improved Bat Algorithm based on Novel Initialization Technique for Global Optimization Problem. International Journal of Advanced Computer Science and Applications, 2018, 9, .	0.7	11
67	An Overview of Mutation Strategies in Bat Algorithm. International Journal of Advanced Computer Science and Applications, 2018, 9, .	0.7	10
68	An On-Chip Auto-Tuning Method for Continuous-time Filters with Improved Speed and Accuracy. IETE Journal of Research, 0, , 1-9.	2.6	0