

# Hafiz Tayyab Rauf

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3120914/publications.pdf>

Version: 2024-02-01

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	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
2	Visual features based automated identification of fish species using deep convolutional neural networks. Computers and Electronics in Agriculture, 2019, 167, 105075.	7.7	92
3	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
4	Botnet Attack Detection Using Local Global Best Bat Algorithm for Industrial Internet of Things. Electronics (Switzerland), 2021, 10, 1341.	3.1	62
5	Dilated Semantic Segmentation for Breast Ultrasonic Lesion Detection Using Parallel Feature Fusion. Diagnostics, 2021, 11, 1212.	2.6	59
6	Adversarial Attack and Defence through Adversarial Training and Feature Fusion for Diabetic Retinopathy Recognition. Sensors, 2021, 21, 3922.	3.8	57
7	Lung nodules detection using semantic segmentation and classification with optimal features. Neural Computing and Applications, 2021, 33, 10737-10750.	5.6	55
8	Adaptive inertia weight Bat algorithm with Sugeno-Function fuzzy search. Applied Soft Computing Journal, 2020, 90, 106159.	7.2	52
9	A Novel Hybrid Approach Based on Deep CNN Features to Detect Knee Osteoarthritis. Sensors, 2021, 21, 6189.	3.8	52
10	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
11	AI-driven deep CNN approach for multi-label pathology classification using chest X-Rays. PeerJ Computer Science, 2021, 7, e495.	4.5	45
12	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
13	A Self-Activated CNN Approach for Multi-Class Chest-Related COVID-19 Detection. Applied Sciences (Switzerland), 2021, 11, 9023.	2.5	44
14	A Novel Hybrid Approach Based on Deep CNN to Detect Glaucoma Using Fundus Imaging. Electronics (Switzerland), 2022, 11, 26.	3.1	44
15	Particle Swarm Optimization With Probability Sequence for Global Optimization. IEEE Access, 2020, 8, 110535-110549.	4.2	35
16	A hybrid algorithm (BAPSO) for capacity configuration optimization in a distributed solar PV based microgrid. Energy Reports, 2021, 7, 7906-7912.	5.1	35
17	A Novel Security Mechanism of 6G for IMD using Authentication and Key Agreement Scheme. , 2021, , .		31
18	Guava Disease Detection Using Deep Convolutional Neural Networks: A Case Study of Guava Plants. Applied Sciences (Switzerland), 2022, 12, 239.	2.5	30

#	ARTICLE	IF	CITATIONS
19	COVID-19 Public Sentiment Insights: A Text Mining Approach to the Gulf Countries. Computers, Materials and Continua, 2021, 67, 1613-1627.	1.9	29
20	MMDD-Ensemble: A Multimodal Data-Driven Ensemble Approach for Parkinson's Disease Detection. Frontiers in Neuroscience, 2021, 15, 754058.	2.8	29
21	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
22	5G based Blockchain network for authentic and ethical keyword search engine. IET Communications, 2022, 16, 442-448.	2.2	28
23	A modified bat algorithm with torus walk for solving global optimisation problems. International Journal of Bio-Inspired Computation, 2020, 15, 1.	0.9	28
24	A Novel text2IMG Mechanism of Credit Card Fraud Detection: A Deep Learning Approach. Electronics (Switzerland), 2022, 11, 756.	3.1	27
25	Breast-Cancer Detection using Thermal Images with Marine-Predators-Algorithm Selected Features. , 2021, , .		26
26	An Attribute-Based Access Control for IoT Using Blockchain and Smart Contracts. Sustainability, 2021, 13, 10556.	3.2	26
27	Planning a secure and reliable IoT-enabled FOG-assisted computing infrastructure for healthcare. Cluster Computing, 2022, 25, 2143-2161.	5.0	25
28	An adaptive hybrid differential evolution algorithm for continuous optimization and classification problems. Neural Computing and Applications, 2021, 33, 10841-10867.	5.6	24
29	Fish-Pak: Fish species dataset from Pakistan for visual features based classification. Data in Brief, 2019, 27, 104565.	1.0	23
30	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
31	Proactive Scheduling and Resource Management for Connected Autonomous Vehicles: A Data Science Perspective. IEEE Sensors Journal, 2021, 21, 25151-25160.	4.7	20
32	Abnormal Respiratory Sounds Classification Using Deep CNN Through Artificial Noise Addition. Frontiers in Medicine, 2021, 8, 714811.	2.6	19
33	DeepResGRU: Residual gated recurrent neural network-augmented Kalman filtering for speech enhancement and recognition. Knowledge-Based Systems, 2022, 238, 107914.	7.1	19
34	The Recent Technologies to Curb the Second-Wave of COVID-19 Pandemic. IEEE Access, 2021, 9, 97906-97928.	4.2	17
35	Identification of Thoracic Diseases by Exploiting Deep Neural Networks. Computers, Materials and Continua, 2021, 66, 3139-3149.	1.9	16
36	Machine-Learning-Scheme to Detect Choroidal-Neovascularization in Retinal OCT Image. , 2021, , .		15

#	ARTICLE	IF	CITATIONS
37	Automated Detection of Brain Abnormality using Deep-Learning-Scheme: A Study. , 2021, , .		14
38	Gulf Countriesâ€™ Citizensâ€™ Acceptance of COVID-19 Vaccinesâ€™”A Machine Learning Approach. Mathematics, 2022, 10, 467.	2.2	14
39	Detecting Malignant Leukemia Cells Using Microscopic Blood Smear Images: A Deep Learning Approach. Applied Sciences (Switzerland), 2022, 12, 6317.	2.5	13
40	Hybrid Deep Learning Model for Endoscopic Lesion Detection and Classification Using Endoscopy Videos. Diagnostics, 2022, 12, 43.	2.6	12
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 Lightweight Approach for Skin Lesion Detection Through Optimal Features Fusion. Computers, Materials and Continua, 2022, 70, 1617-1630.	1.9	11
43	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
44	Deep CNN-based autonomous system for safety measures in logistics transportation. Soft Computing, 2021, 25, 12357-12370.	3.6	10
45	An Overview of Mutation Strategies in Bat Algorithm. International Journal of Advanced Computer Science and Applications, 2018, 9, .	0.7	10
46	An Improved Particle Swarm Optimization Algorithm with Chi-Square Mutation Strategy. International Journal of Advanced Computer Science and Applications, 2019, 10, .	0.7	9
47	Training of Artificial Neural Network Using PSO With Novel Initialization Technique. , 2018, , .		8
48	Predicting the Type of Crime: Intelligence Gathering and Crime Analysis. Computers, Materials and Continua, 2021, 66, 2317-2341.	1.9	8
49	Bat algorithm with Weibull walk for solving global optimisation and classification problems. International Journal of Bio-Inspired Computation, 2020, 15, 159.	0.9	7
50	Trust-Based Petri Net Model for Fault Detection and Treatment in Automated Manufacturing Systems. IEEE Access, 2021, 9, 157997-158009.	4.2	7
51	Evolving Artificial Neural Networks Using Opposition Based Particle Swarm Optimization Neural Network for Data Classification. , 2018, , .		6
52	Intelligent scaling for 6G IoE services for resource provisioning. PeerJ Computer Science, 2021, 7, e755.	4.5	5
53	Achieving data privacy for decision support systems in times of massive data sharing. Cluster Computing, 2022, 25, 3037-3049.	5.0	5
54	Multi-Factor Rear-End Collision Avoidance in Connected Autonomous Vehicles. Applied Sciences (Switzerland), 2022, 12, 1049.	2.5	5

#	ARTICLE	IF	CITATIONS
55	A novel CAPTCHA solver framework using deep skipping Convolutional Neural Networks. PeerJ Computer Science, 2022, 8, e879.	4.5	5
56	Training of Artificial Neural Network Using New Initialization Approach of Particle Swarm Optimization for Data Classification. , 2020, , .		4
57	Design of Metaheuristic Optimization-Based Vascular Segmentation Techniques for Photoacoustic Images. Contrast Media and Molecular Imaging, 2022, 2022, 1-12.	0.8	4
58	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
59	Cognitive population initialization for swarm intelligence and evolutionary computing. Journal of Ambient Intelligence and Humanized Computing, 2022, 13, 5847-5860.	4.9	3
60	Collaborative multi-agents in dynamic industrial internet of things using deep reinforcement learning. Environment, Development and Sustainability, 2022, 24, 9481-9499.	5.0	3
61	Comparison of Different Bat Initialization Techniques for Global Optimization Problems. International Journal of Applied Metaheuristic Computing, 2021, 12, 157-184.	0.7	2
62	Bat Algorithm with Different Initialization Approaches for Numerical Optimization. , 2019, , .		1
63	An Overview of Mutation Strategies in Particle Swarm Optimization. International Journal of Applied Metaheuristic Computing, 2020, 11, 16-37.	0.7	1
64	Service Recommendations Using a Hybrid Approach in Knowledge Graph with Keyword Acceptance Criteria. Applied Sciences (Switzerland), 2022, 12, 3544.	2.5	1
65	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
66	Comparison of Probability Distributions for Evolving Artificial Neural Networks Using Bat Algorithm. Advances in Intelligent Systems and Computing, 2021, , 97-104.	0.6	0
67	Bat algorithm with Weibull walk for solving global optimisation and classification problems. International Journal of Bio-Inspired Computation, 2020, 15, 159.	0.9	0
68	Improved Fitness-Dependent Optimizer for Solving Economic Load Dispatch Problem. Computational Intelligence and Neuroscience, 2022, 2022, 1-16.	1.7	0