Usman Tariq

List of Publications by Year
in descending order

116 papers	2,507 citations	270111 25 h-index	274796 44 g-index
116 all docs	116 docs citations	116 times ranked	1773 citing authors

#	Article	IF	Citations
1	Multi-modal secure healthcare data dissemination framework using blockchain in IoMT. Personal and Ubiquitous Computing, 2024, 28, 3-15.	1.9	26
2	IoT-enabled healthcare systems using block chain-dependent adaptable services. Personal and Ubiquitous Computing, 2024, 28, 43-57.	1.9	13
3	Predicting humans future motion trajectories in video streams using generative adversarial network. Multimedia Tools and Applications, 2024, 83, 15289-15311.	2.6	5
4	M3BTCNet: multi model brain tumor classification using metaheuristic deep neural network features optimization. Neural Computing and Applications, 2024, 36, 95-110.	3.2	7
5	A novel category detection of social media reviews in the restaurant industry. Multimedia Systems, 2023, 29, 1825-1838.	3.0	16
6	Antlion re-sampling based deep neural network model for classification of imbalanced multimodal stroke dataset. Multimedia Tools and Applications, 2022, 81, 41429-41453.	2.6	24
7	Investigating the Prospect of Leveraging Blockchain and Machine Learning to Secure Vehicular Networks: A Survey. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 683-700.	4.7	56
8	A novel IoT–fog–cloud-based healthcare system for monitoring and predicting COVID-19 outspread. Journal of Supercomputing, 2022, 78, 1783-1806.	2.4	18
9	Human Gait Recognition Using Deep Learning and Improved Ant Colony Optimization. Computers, Materials and Continua, 2022, 70, 2113-2130.	1.5	13
10	Multiclass Cucumber Leaf Diseases Recognition Using Best Feature Selection. Computers, Materials and Continua, 2022, 70, 3281-3294.	1.5	27
11	Malaria Blood Smear Classification Using Deep Learning and Best Features Selection. Computers, Materials and Continua, 2022, 70, 1875-1891.	1.5	4
12	Human Gait Recognition: A Deep Learning and Best Feature Selection Framework. Computers, Materials and Continua, 2022, 70, 343-360.	1.5	3
13	<scp>Computer–aided</scp> deep learning model for identification of lymphoblast cell using microscopic leukocyte images. Expert Systems, 2022, 39, e12894.	2.9	5
14	Digital Twin Consensus for Blockchain-Enabled Intelligent Transportation Systems in Smart Cities. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 22619-22629.	4.7	27
15	Multiclass Skin Lesion Classification Using Hybrid Deep Features Selection and Extreme Learning Machine. Sensors, 2022, 22, 799.	2.1	78
16	Breast Cancer Classification from Ultrasound Images Using Probability-Based Optimal Deep Learning Feature Fusion. Sensors, 2022, 22, 807.	2.1	119
17	Tracking of a Fixed-Shape Moving Object Based on the Gradient Descent Method. Sensors, 2022, 22, 1098.	2.1	13
18	Analytical Study of Deep Learning-Based Preventive Measures of COVID-19 for Decision Making and Aggregation via the RISTECB Model. Scientific Programming, 2022, 2022, 1-17.	0.5	4

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19	An Efficient Deep Learning Approach to Automatic Glaucoma Detection Using Optic Disc and Optic Cup Localization. Sensors, 2022, 22, 434.	2.1	59
20	Scalable offloading using machine learning methods for distributed multi-controller architecture of SDN networks. Journal of Supercomputing, 2022, 78, 10191-10210.	2.4	3
21	Securing Radio Resources Allocation With Deep Reinforcement Learning for IoE Services in Next-Generation Wireless Networks. IEEE Transactions on Network Science and Engineering, 2022, 9, 2991-3003.	4.1	3
22	HAREDNet: A deep learning based architecture for autonomous video surveillance by recognizing human actions. Computers and Electrical Engineering, 2022, 99, 107805.	3.0	11
23	A Long Short-Term Memory Biomarker-Based Prediction Framework for Alzheimer's Disease. Sensors, 2022, 22, 1475.	2.1	20
24	AI-assisted bio-inspired algorithm for secure IoT communication networks. Cluster Computing, 2022, 25, 1805-1816.	3.5	6
25	Low-Space Bit-Parallel Systolic Structure for AOP-Based Multiplier Suitable for Resource-Constrained IoT Edge Devices. Mathematics, 2022, 10, 815.	1.1	0
26	A review on federated learning towards image processing. Computers and Electrical Engineering, 2022, 99, 107818.	3.0	23
27	A Large-Scale Benchmark Dataset for Anomaly Detection and Rare Event Classification for Audio Forensics. IEEE Access, 2022, 10, 38885-38894.	2.6	13
28	Securing IoT-Empowered Fog Computing Systems: Machine Learning Perspective. Mathematics, 2022, 10, 1298.	1.1	7
29	Security-Aware Malicious Event Detection using Multivariate Deep Regression Setup for Vehicular Ad hoc Network Aimed at Autonomous Transportation System. , 2022, , .		0
30	Social Networking Security during COVID-19: A Systematic Literature Review. Wireless Communications and Mobile Computing, 2022, 2022, 1-21.	0.8	3
31	Disturbance Observer-Based Tracking Controller for Uncertain Marine Surface Vessel. Actuators, 2022, 11, 128.	1.2	3
32	Gray-Level Image Transformation of Paved Road Cracks with Metaphorical and Computational Analysis. Mathematical Problems in Engineering, 2022, 2022, 1-14.	0.6	2
33	Melanoma segmentation: A framework of improved <scp>DenseNet77</scp> and <scp>UNET</scp> convolutional neural network. International Journal of Imaging Systems and Technology, 2022, 32, 2137-2153.	2.7	32
34	Rampant Smoothing (RTS) Algorithm: an optimized consensus mechanism for private Blockchain enabled technologies. Eurasip Journal on Wireless Communications and Networking, 2022, 2022, .	1.5	2
35	Improving Recognition of Overlapping Activities with Less Interclass Variations in Smart Homes through Clustering-Based Classification. Computational Intelligence and Neuroscience, 2022, 2022, 1-16.	1.1	2
36	A Hybrid Data-Driven Approach for Multistep Ahead Prediction of State of Health and Remaining Useful Life of Lithium-Ion Batteries. Computational Intelligence and Neuroscience, 2022, 2022, 1-14.	1.1	8

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37	An AI-based intelligent system for healthcare analysis using Ridge-Adaline Stochastic Gradient Descent Classifier. Journal of Supercomputing, 2021, 77, 1998-2017.	2.4	84
38	Trustworthy Edge Storage Orchestration in Intelligent Transportation Systems Using Reinforcement Learning. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 4443-4456.	4.7	39
39	Microscopic brain tumor detection and classification using <scp>3D CNN</scp> and feature selection architecture. Microscopy Research and Technique, 2021, 84, 133-149.	1.2	177
40	A Realistic Image Generation of Face From Text Description Using the Fully Trained Generative Adversarial Networks. IEEE Access, 2021, 9, 1250-1260.	2.6	37
41	Multi-Images Encryption Scheme Based on 3D Chaotic Map and Substitution Box. IEEE Access, 2021, 9, 73924-73937.	2.6	20
42	GCORP: Geographic and Cooperative Opportunistic Routing Protocol for Underwater Sensor Networks. IEEE Access, 2021, 9, 27650-27667.	2.6	28
43	Brain tumor detection and multiâ€classification using advanced deep learning techniques. Microscopy Research and Technique, 2021, 84, 1296-1308.	1.2	104
44	Multi-Layered Deep Learning Features Fusion for Human Action Recognition. Computers, Materials and Continua, 2021, 69, 4061-4075.	1.5	26
45	Video Analytics Framework for Human Action Recognition. Computers, Materials and Continua, 2021, 68, 3841-3859.	1.5	9
46	Prostate Cancer Detection Using Deep Learning and Traditional Techniques. IEEE Access, 2021, 9, 27085-27100.	2.6	49
47	Segmentation and Classification of Stomach Abnormalities Using Deep Learning. Computers, Materials and Continua, 2021, 69, 607-625.	1.5	9
48	An opportunistic data dissemination for autonomous vehicles communication. Soft Computing, 2021, 25, 11899-11912.	2.1	9
49	Internet of medical things embedding deep learning with data augmentation for mammogram density classification. Microscopy Research and Technique, 2021, 84, 2186-2194.	1.2	15
50	Deep CNN and Deep GAN in Computational Visual Perception-Driven Image Analysis. Complexity, 2021, 2021, 1-30.	0.9	36
51	Authentication through gender classification from iris images using support vector machine. Microscopy Research and Technique, 2021, 84, 2666-2676.	1.2	15
52	Secured Big Data Analytics for Decision-Oriented Medical System Using Internet of Things. Electronics (Switzerland), 2021, 10, 1273.	1.8	20
53	An intelligence design for detection and classification of COVID19 using fusion of classical and convolutional neural network and improved microscopic features selection approach. Microscopy Research and Technique, 2021, 84, 2254-2267.	1.2	14
54	A Machine-Learning-Based Approach for Autonomous IoT Security. IT Professional, 2021, 23, 69-75.	1.4	28

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55	Dynamic Scheduling Algorithm in Cyber Mimic Defense Architecture of Volunteer Computing. ACM Transactions on Internet Technology, 2021, 21, 1-33.	3.0	15
56	Intelligent data analytics in energy optimization for the internet of underwater things. Soft Computing, 2021, 25, 12507-12519.	2.1	10
57	Optimization of Correlation Filters Using Extended Particle Swarm Optimization Technique. Computational and Mathematical Methods in Medicine, 2021, 2021, 1-13.	0.7	1
58	Real-Time Diagnosis System of COVID-19 Using X-Ray Images and Deep Learning. IT Professional, 2021, 23, 57-62.	1.4	29
59	Perceptions of spatial patterns of visitors in urban green spaces for the sustainability of smart city. International Journal of Distributed Sensor Networks, 2021, 17, 155014772110340.	1.3	8
60	Machine-Learning-Based Efficient and Secure RSU Placement Mechanism for Software-Defined-IoV. IEEE Internet of Things Journal, 2021, 8, 13950-13957.	5.5	39
61	COVID19 Classification Using CT Images via Ensembles of Deep Learning Models. Computers, Materials and Continua, 2021, 69, 319-337.	1.5	20
62	Corrections to â€œGCORP: Geographic and Cooperative Opportunistic Routing Protocol for Underwater Sensor Networksâ€. IEEE Access, 2021, 9, 67734-67735.	2.6	2
63	An Ensemble of Optimal Deep Learning Features for Brain Tumor Classification. Computers, Materials and Continua, 2021, 69, 2653-2670.	1.5	19
64	Compact Bit-Parallel Systolic Multiplier Over GF(2 m). Canadian Journal of Electrical and Computer Engineering, 2021, 44, 199-205.	1.5	2
65	A Lightweight Secure and Energy-Efficient Fog-Based Routing Protocol for Constraint Sensors Network. Energies, 2021, 14, 89.	1.6	14
66	COVID-19 Case Recognition from Chest CT Images by Deep Learning, Entropy-Controlled Firefly Optimization, and Parallel Feature Fusion. Sensors, 2021, 21, 7286.	2.1	63
67	Human Gait Recognition: A Single Stream Optimal Deep Learning Features Fusion. Sensors, 2021, 21, 7584.	2.1	23
68	VGG19 Network Assisted Joint Segmentation and Classification of Lung Nodules in CT Images. Diagnostics, 2021, 11, 2208.	1.3	63
69	Improved Text Summarization of News Articles Using GA-HC and PSO-HC. Applied Sciences (Switzerland), 2021, 11, 10511.	1.3	4
70	Human Action Recognition: A Paradigm of Best Deep Learning Features Selection and Serial Based Extended Fusion. Sensors, 2021, 21, 7941.	2.1	40
71	A Rapid Artificial Intelligence-Based Computer-Aided Diagnosis System for COVID-19 Classification from CT Images. Behavioural Neurology, 2021, 2021, 1-13.	1.1	22
72	A Computer-Aided Diagnosis System Using Deep Learning for Multiclass Skin Lesion Classification. Computational Intelligence and Neuroscience, 2021, 2021, 1-15.	1.1	38

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73	IoT Based Health—Related Topic Recognition from Emerging Online Health Community (Med Help) Using Machine Learning Technique. Electronics (Switzerland), 2020, 9, 1469.	1.8	16
74	Recruitment algorithms for vehicular sensor networks. Computer Communications, 2020, 159, 9-14.	3.1	1
75	Fuzzy Logic-Based Novel Hybrid Fuel Framework for Modern Vehicles. IEEE Access, 2020, 8, 160596-160606.	2.6	5
76	A Novel Fog-Based Multi-Level Energy-Efficient Framework for IoT-Enabled Smart Environments. IEEE Access, 2020, 8, 150010-150026.	2.6	22
77	Advancing an in-memory computing for a multi-accent real-time voice frequency recognition modeling: a comprehensive study of models & mechanism. Multimedia Tools and Applications, 2020, 79, 27705-27720.	2.6	2
78	Context-Aware Autonomous Security Assertion for Industrial IoT. IEEE Access, 2020, 8, 191785-191794.	2.6	10
79	Energy and Materials-Saving Management via Deep Learning for Wastewater Treatment Plants. IEEE Access, 2020, 8, 191694-191705.	2.6	22
80	ANFIS-Inspired Smart Framework for Education Quality Assessment. IEEE Access, 2020, 8, 175306-175318.	2.6	8
81	Toward Blockchain-Enabled Privacy-Preserving Data Transmission in Cluster-Based Vehicular Networks. Electronics (Switzerland), 2020, 9, 1358.	1.8	28
82	Secure and Energy-Aware Heuristic Routing Protocol for Wireless Sensor Network. IEEE Access, 2020, 8, 163962-163974.	2.6	37
83	IoT-Inspired Framework of Intruder Detection for Smart Home Security Systems. Electronics (Switzerland), 2020, 9, 1361.	1.8	11
84	Protecting Private Attributes in App Based Mobile User Profiling. IEEE Access, 2020, 8, 143818-143836.	2.6	7
85	Multi-modal prediction of breast cancer using particle swarm optimization with non-dominating sorting. International Journal of Distributed Sensor Networks, 2020, 16, 155014772097150.	1.3	11
86	ECMCRR-MPDNL for Cellular Network Traffic Prediction With Big Data. IEEE Access, 2020, 8, 113419-113428.	2.6	8
87	Indoor temperature monitoring using wireless sensor networks: A SMAC application in smart cities. Sustainable Cities and Society, 2020, 61, 102333.	5.1	36
88	A Novel PCA-Firefly Based XGBoost Classification Model for Intrusion Detection in Networks Using GPU. Electronics (Switzerland), 2020, 9, 219.	1.8	229
89	Classification of stomach infections: A paradigm of convolutional neural network along with classical features fusion and selection. Microscopy Research and Technique, 2020, 83, 562-576.	1.2	106
90	Efficient parallel semi-systolic array structure for multiplication and squaring in $GF(2^m)$. IEICE Electronics Express, 2019, 16, 20190268-20190268.	0.3	1

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91	Real-Time Methodology for Improving Cyber Security in Internet of Things Using Edge Computing During Attack Threats. , 2019, , .		2
92	Blockchain in internetâ€of-â€things: a necessity framework for security, reliability, transparency, immutability and liability. IET Communications, 2019, 13, 3187-3192.	1.5	22
93	IoT in 5G Aeon: An Inevitable Fortuity of Next Generation Healthcare. , 2018, , .		3
94	Outlook of Coordinated Transmission Control in 5G Networks for IoTs. International Journal of Computers, Communications and Control, 2018, 13, 280-293.	1.2	1
95	A Review of Scenarios and Enabling Technology Directions for 5g Wireless Communications. Indian Journal of Science and Technology, 2016, 9, .	0.5	3
96	A Heterogeneous Framework to Detect Intruder Attacks in Wireless Sensor Networks. International Journal of Advanced Computer Science and Applications, 2016, 7, .	0.5	0
97	End-to-End Route Reliability in Pervasive Multi-Channel Multi-Radio (PMCMR) Scheme for MANETS. Journal of Applied Sciences, 2015, 15, 703-708.	0.1	0
98	Sinkhole Vulnerabilities in Wireless Sensor Networks. International Journal of Security and Its Applications, 2014, 8, 401-410.	0.5	9
99	Reliable communication protocol for inter-vehicular network. , 2013, , .		2
100	Polynomial-based key management for secure intra-group and inter-group communication. Computers and Mathematics With Applications, 2013, 65, 1300-1309.	1.4	47
101	Dealing with Sinkhole Attacks in Wireless Sensor Networks. , 2013, , .		9
102	Defense and Monitoring Model for Distributed Denial of Service Attacks. Procedia Computer Science, 2012, 10, 1052-1056.	1.2	3
103	Collaborative Peer to Peer Defense Mechanism for DDoS Attacks. Procedia Computer Science, 2011, 5, 157-164.	1.2	11
104	Mobile Node Localization in Cellular Networks. International Journal of Wireless and Mobile Networks, 2011, 3, 91-100.	0.1	5
105	Light Weight Majority Voting Based Data Accuracy Assurance Scheme for Wireless Sensor Networks Using Quadtree Topology. Intelligent Automation and Soft Computing, 2009, 15, 105-115.	1.6	0
106	Binding Update Authentication Scheme for Mobile IPv6. , 2007, , .		0
107	A Quadtree Based Data Accuracy Scheme for Wireless Sensor Networks. , 2007, , .		1
108	Binding Update Authentication Scheme for Mobile IPv6. , 2007, , .		3

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109	A Quadtree Based Data Accuracy Scheme for Wireless Sensor Networks. , 2007, , .		0
110	A Comprehensive Categorization of DDoS Attack and DDoS Defense Techniques. Lecture Notes in Computer Science, 2006, , 1025-1036.	1.0	24
111	PMS an expeditious marking scheme to combat with the DDoS attack. , 2005, , .		3
112	Quick Fix, an expeditious approach to diminish SPAM. , 2005, , .		0
113	NACS: Non-Overlapping AP's Caching Scheme to Reduce Handoff in 802.11 Wireless LAN. , 0, , .		0
114	Intrusion Detection and Anticipation System (IDAS) for IEEE 802.15.4 Devices. Intelligent Automation and Soft Computing, 0, , 1-13.	1.6	4
115	Energy-efficient dynamic channel allocation algorithm in wireless body area network. Environment, Development and Sustainability, 0, , 1.	2.7	9
116	The Industrial Internet of Things (IIoT): An Anomaly Identification and Countermeasure Method. Journal of Circuits, Systems and Computers, 0, , .	1.0	0