

# Munam Ali Shah

## List of Publications by Year in descending order

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Version: 2024-02-01

163  
papers

2,910  
citations

304368

22  
h-index

276539

41  
g-index

166  
all docs

166  
docs citations

166  
times ranked

2525  
citing authors

#	ARTICLE	IF	CITATIONS
1	An infrastructure-assisted job scheduling and task coordination in volunteer computing-based VANET. <i>Complex &amp; Intelligent Systems</i> , 2023, 9, 3613-3633.	4.0	9
2	Multi-tier authentication schemes for fog computing: Architecture, security perspective, and challenges. <i>International Journal of Communication Systems</i> , 2022, 35, e4033.	1.6	34
3	Cross-Domain Security and Interoperability in Internet of Things. <i>IEEE Internet of Things Journal</i> , 2022, 9, 11993-12000.	5.5	7
4	A Comprehensive Review of Computing Paradigms, Enabling Computation Offloading and Task Execution in Vehicular Networks. <i>IEEE Access</i> , 2022, 10, 3580-3600.	2.6	28
5	Achieving data privacy for decision support systems in times of massive data sharing. <i>Cluster Computing</i> , 2022, 25, 3037-3049.	3.5	5
6	Multi-Factor Rear-End Collision Avoidance in Connected Autonomous Vehicles. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 1049.	1.3	5
7	Collaborative multi-agents in dynamic industrial internet of things using deep reinforcement learning. <i>Environment, Development and Sustainability</i> , 2022, 24, 9481-9499.	2.7	3
8	Traffic Flow Prediction: An Intelligent Scheme for Forecasting Traffic Flow Using Air Pollution Data in Smart Cities with Bagging Ensemble. <i>Sustainability</i> , 2022, 14, 4164.	1.6	19
9	A Novel Privacy Paradigm for Improving Serial Data Privacy. <i>Sensors</i> , 2022, 22, 2811.	2.1	1
10	A Blockchain-Based Authentication Solution for 6G Communication Security in Tactile Networks. <i>Electronics (Switzerland)</i> , 2022, 11, 1374.	1.8	7
11	Towards an effective model for lung disease classification. <i>Applied Soft Computing Journal</i> , 2022, 124, 109077.	4.1	4
12	Vehicle-Life Interaction in Fog-Enabled Smart Connected and Autonomous Vehicles. <i>IEEE Access</i> , 2021, 9, 7402-7420.	2.6	10
13	Virtual Pseudonym-Changing and Dynamic Grouping Policy for Privacy Preservation in VANETs. <i>Sensors</i> , 2021, 21, 3077.	2.1	8
14	Hybrid Task Coordination Using Multi-Hop Communication in Volunteer Computing-Based VANETs. <i>Sensors</i> , 2021, 21, 2718.	2.1	7
15	Privacy Preservation in Resource-Constrained IoT Devices Using Blockchain – A Survey. <i>Electronics (Switzerland)</i> , 2021, 10, 1732.	1.8	21
16	An Attribute-Based Access Control for IoT Using Blockchain and Smart Contracts. <i>Sustainability</i> , 2021, 13, 10556.	1.6	26
17	Towards greener smart cities and road traffic forecasting using air pollution data. <i>Sustainable Cities and Society</i> , 2021, 72, 103062.	5.1	39
18	Futuristic blockchain based scalable and cost-effective 5G vehicular network architecture. <i>Vehicular Communications</i> , 2021, 31, 100386.	2.7	17

#	ARTICLE	IF	CITATIONS
19	URL filtering using big data analytics in 5G networks. Computers and Electrical Engineering, 2021, 95, 107379.	3.0	1
20	Machine Learning-based Mist Computing Enabled Internet of Battlefield Things. ACM Transactions on Internet Technology, 2021, 21, 1-26.	3.0	21
21	Offensive Security: Towards Proactive Threat Hunting via Adversary Emulation. IEEE Access, 2021, 9, 126023-126033.	2.6	24
22	Privacy-preserving multilevel obfuscation scheme for vehicular network. Transactions on Emerging Telecommunications Technologies, 2021, 32, e4204.	2.6	9
23	An intelligent framework to predict socioeconomic impacts of COVID-19 and public sentiments. Computers and Electrical Engineering, 2021, 96, 107526.	3.0	6
24	Hybrid AES-ECC Model for the Security of Data over Cloud Storage. Electronics (Switzerland), 2021, 10, 2673.	1.8	19
25	A Distributed Mix-Context-Based Method for Location Privacy in Road Networks. Sustainability, 2021, 13, 12513.	1.6	4
26	Adaptive Grouping and Pseudonym Changing Policy for Protection of Vehicles Location Information in VANETs. , 2021, , .		4
27	5G Vehicular Network Resource Management for Improving Radio Access Through Machine Learning. IEEE Access, 2020, 8, 6792-6800.	2.6	91
28	Fuzzy Logic-Based Novel Hybrid Fuel Framework for Modern Vehicles. IEEE Access, 2020, 8, 160596-160606.	2.6	5
29	A Novel Fog-Based Multi-Level Energy-Efficient Framework for IoT-Enabled Smart Environments. IEEE Access, 2020, 8, 150010-150026.	2.6	22
30	Proactive Forensics in IoT: Privacy-Aware Log-Preservation Architecture in Fog-Enabled-Cloud Using Holochain and Containerization Technologies. Electronics (Switzerland), 2020, 9, 1172.	1.8	35
31	Towards Energy Efficient Smart Grids Using Bio-Inspired Scheduling Techniques. IEEE Access, 2020, 8, 158947-158960.	2.6	18
32	Volunteer Computing in Connected Vehicles: Opportunities and Challenges. IEEE Network, 2020, 34, 212-218.	4.9	11
33	Location Proof Systems for Smart Internet of Things: Requirements, Taxonomy, and Comparative Analysis. Electronics (Switzerland), 2020, 9, 1776.	1.8	11
34	VANET-Based Volunteer Computing (VBVC): A Computational Paradigm for Future Autonomous Vehicles. IEEE Access, 2020, 8, 71763-71774.	2.6	7
35	Cascading handcrafted features and Convolutional Neural Network for IoT-enabled brain tumor segmentation. Computer Communications, 2020, 153, 196-207.	3.1	63
36	Named Data Networking for Efficient IoT-based Disaster Management in a Smart Campus. Sustainability, 2020, 12, 3088.	1.6	41

#	ARTICLE	IF	CITATIONS
37	FIViz: Forensics Investigation through Visualization for Malware in Internet of Things. Sustainability, 2020, 12, 7262.	1.6	4
38	A Novel Amended Dynamic Round Robin Scheduling Algorithm for Timeshared Systems. International Arab Journal of Information Technology, 2020, 17, 90-98.	0.5	9
39	LAOD: Link Aware on Demand Routing in Flying Ad-Hoc Networks. , 2019, , .		4
40	Comparative Analysis of Machine Learning Techniques for Predicting Air Quality in Smart Cities. IEEE Access, 2019, 7, 128325-128338.	2.6	131
41	A Novel Bio-Inspired Hybrid Algorithm (NBIHA) for Efficient Resource Management in Fog Computing. IEEE Access, 2019, 7, 115760-115773.	2.6	106
42	Analyzing Quality of Software Requirements; A Comparison Study on NLP Tools. , 2019, , .		2
43	Emotion Classification and Crowd Source Sensing; A Lexicon Based Approach. IEEE Access, 2019, 7, 27124-27134.	2.6	16
44	Internet Traffic Flow Analysis in Fog Computing: An Experimental Case Study. EAI/Springer Innovations in Communication and Computing, 2019, , 83-92.	0.9	1
45	Exploring IoT Applications for Disaster Management: Identifying Key Factors and Proposing Future Directions. EAI/Springer Innovations in Communication and Computing, 2019, , 291-309.	0.9	6
46	Seven Pillars to Achieve Energy Efficiency in High-Performance Computing Data Centers. EAI/Springer Innovations in Communication and Computing, 2019, , 93-105.	0.9	8
47	A Novel Internet of Things-Enabled Accident Detection and Reporting System for Smart City Environments. Sensors, 2019, 19, 2071.	2.1	101
48	iCAFE: Intelligent Congestion Avoidance and Fast Emergency services. Future Generation Computer Systems, 2019, 99, 365-375.	4.9	23
49	Delay-Aware Accident Detection and Response System Using Fog Computing. IEEE Access, 2019, 7, 70975-70985.	2.6	52
50	Perception layer security in Internet of Things. Future Generation Computer Systems, 2019, 100, 144-164.	4.9	131
51	Human Bond Communications: Architectures, Challenges, and Possibilities. IEEE Communications Magazine, 2019, 57, 19-25.	4.9	10
52	Coronary Artery Bypass Grafting (CABG) Anatomy with E-Learning Environment. , 2019, , .		1
53	A Novel Model for HD video calling in 5G Networks. , 2019, , .		2
54	A Novel Technique of Dynamic Resource Allocation in Software Defined Network. , 2019, , .		0

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55	Network of ECUs Software Update in Future vehicles. , 2019, , .		3
56	Smart Cities: Methods, Encounters & Hunt for Future - Survey. , 2019, , .		1
57	DDoS in IoT: A Roadmap Towards Security & Countermeasures. , 2019, , .		9
58	Hierarchical Topic Modeling for Urdu Text Articles. , 2019, , .		3
59	Barriers of Requirement Change Management Process in the Context of Global Software Development. , 2019, , .		5
60	Evaluation of the Impact of Traffic Congestion Based on SUMO. , 2019, , .		6
61	An Aspect of Internet of Things Security: Analysis of Digital Fingerprinting of Generic Twitter Sessions by Using Forensic Tool. , 2019, , .		1
62	A Survey on secure routing strategies in VANETs. , 2019, , .		3
63	Holistic approach for coupling privacy with safety in VANETs. Computer Networks, 2019, 148, 214-230.	3.2	19
64	Big Data in Healthcare: A Survey. EAI/Springer Innovations in Communication and Computing, 2019, , 143-152.	0.9	7
65	CCN: A novel energy efficient greedy routing protocol for green computing. Concurrency Computation Practice and Experience, 2019, 31, e4461.	1.4	9
66	Resource allocation in SDN based 5G cellular networks. Peer-to-Peer Networking and Applications, 2019, 12, 514-538.	2.6	25
67	A reliability aware protocol for cooperative communication in cognitive radio networks. International Journal of Automation and Computing, 2019, 16, 84-92.	4.5	0
68	On Efficiency of Scrambled Image Forensics Service Using Support Vector Machine. Lecture Notes in Computer Science, 2019, , 16-30.	1.0	0
69	SAMADroid: A Novel 3-Level Hybrid Malware Detection Model for Android Operating System. IEEE Access, 2018, 6, 4321-4339.	2.6	133
70	Counter Measuring Conceivable Security Threats on Smart Healthcare Devices. IEEE Access, 2018, 6, 20722-20733.	2.6	27
71	ESOT: a new privacy model for preserving location privacy in Internet of Things. Telecommunication Systems, 2018, 67, 553-575.	1.6	31
72	Big data analytics for mitigating broadcast storm in Vehicular Content Centric networks. Future Generation Computer Systems, 2018, 86, 1301-1320.	4.9	24

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73	Exploiting Big Data Analytics for Smart Urban Planning. , 2018, , .		12
74	Adaptive Transmission Power - Geographical and Energy Aware Routing Algorithm for Wireless Sensor Networks. , 2018, , .		0
75	Survey on Causes of Motion Sickness in Virtual Reality. , 2018, , .		8
76	Integrated Architecture of Data Warehouse with Business Intelligence Technologies. , 2018, , .		2
77	Prediction of Diabetes Using Machine Learning Algorithms in Healthcare. , 2018, , .		118
78	Impact of Membership and Non-membership Features on Classification Decision: An Empirical Study for Appraisal of Feature Selection Methods. , 2018, , .		3
79	A Novel Framework for Plagiarism Detection: A Case Study for Urdu Language. , 2018, , .		4
80	Software Cost and Effort Estimation using a New Optimization Algorithm Inspired by Strawberry Plant. , 2018, , .		6
81	Statistical Topic Modeling for Urdu Text Articles. , 2018, , .		6
82	Internet of Things " Security threats and challenges in M2M Devices. , 2018, , .		0
83	EK-Healthcare: Effectiveness of IoT in the Medical Field with Enhanced Features. , 2018, , .		1
84	Intelligent Transport System: An Important Aspect of Emergency Management in Smart Cities. , 2018, , .		7
85	Comparison of Machine Learning Algorithms in Data classification. , 2018, , .		37
86	Performance Analysis of Snort using Network Function Virtualization. , 2018, , .		0
87	A methodology to characterize and compute correlation between traffic congestion and health issues via social media. , 2018, , .		0
88	Fog Computing based Automated Accident Detection and Emergency Response System using Android Smartphone. , 2018, , .		16
89	A VANET based Smart Car Parking System to Minimize Searching Time, Fuel Consumption and CO <sub>2</sub> Emission. , 2018, , .		5
90	A Novel Authentication and Security Protocol for Wireless Adhoc Networks. , 2018, , .		4

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91	Detection of Parkinson Disease in Brain MRI using Convolutional Neural Network. , 2018, , .		27
92	NDN Based Communication for Fragmented Network: The Case of Smart Metropolitan (MAN). , 2018, , .		0
93	A Review of Smartphone's Text Entry for Visually Impaired. , 2018, , .		1
94	Evaluating Bio-Inspired Optimization Techniques for Utility Price Estimation in Fog Computing. , 2018, , .		6
95	Leveraging Named Data Networking for Fragmented Networks in Smart Metropolitan Cities. IEEE Access, 2018, 6, 75899-75911.	2.6	22
96	Social Internet of Vehicles: Complexity, Adaptivity, Issues and Beyond. IEEE Access, 2018, 6, 62089-62106.	2.6	22
97	Complex Adaptive Systems. , 2018, , .		0
98	AWS Support in Open Source Mano Monitoring Module. , 2018, , .		1
99	Full Disk Encryption. , 2018, , .		2
100	Smart Road Traffic Accidents Reduction Strategy Based on Intelligent Transportation Systems (TARS). Sensors, 2018, 18, 1983.	2.1	43
101	5G cellular network integration with SDN: Challenges, issues and beyond. , 2017, , .		12
102	A survey of internet of things, enabling technologies and protocols. , 2017, , .		5
103	IoT based ransomware growth rate evaluation and detection using command and control blacklisting. , 2017, , .		26
104	Smart city: A roadmap towards implementation. , 2017, , .		4
105	OptiSEC: In search of an optimal sensor cloud architecture. , 2017, , .		4
106	Data mining techniques and applications – A decade review. , 2017, , .		39
107	An IoT based robust healthcare model for continuous health monitoring. , 2017, , .		15
108	A review: Security challenges in cognitive radio networks. , 2017, , .		1

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109	IoT based smart home: Security challenges, security requirements and solutions. , 2017, , .		61
110	IoT security: A layered approach for attacks & defenses. , 2017, , .		73
111	VBPC: Velocity based pseudonym changing strategy to protect location privacy of vehicles in VANET. , 2017, , .		23
112	Enhanced car number plate recognition (ECNPR) system by improving efficiency in preprocessing steps. , 2017, , .		5
113	Software Defined Network (SDN) Based Internet of Things (IoT). , 2017, , .		64
114	Green IoT: An Investigation on Energy Saving Practices for 2020 and Beyond. IEEE Access, 2017, 5, 15667-15681.	2.6	244
115	A new cross layer MAC protocol for data forwarding in underwater acoustic sensor networks. , 2017, , .		6
116	Information-centric networking: A review on futuristic networks. , 2017, , .		6
117	Authentication analysis using input gestures in touch-based mobile devices. , 2017, , .		4
118	Online Signature Verification: A Survey on Authentication in Smartphones. Lecture Notes in Electrical Engineering, 2017, , 471-480.	0.3	2
119	Towards 3-level hybrid security model for Android Operating Systems. , 2017, , .		0
120	E-Lithe: A Lightweight Secure DTLS for IoT. , 2017, , .		25
121	Fog computing: Security issues, solutions and robust practices. , 2017, , .		29
122	Iris recognition system in smartphones using light version (LV) recognition algorithm. , 2017, , .		5
123	A survey on resource allocation in software defined networks (SDN). , 2017, , .		7
124	A smart parking system to minimize searching time, fuel consumption and CO2 emission. , 2017, , .		5
125	EMCA: Efficient multicasting and collision avoidance in CC-MANETs. , 2017, , .		1
126	The green 2020: Impact of smartphones on the environment in present and future. , 2017, , .		1



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127	Review of model-free gait recognition in biometric systems. , 2017, , .		4
128	Enhanced user preference based intelligent scheduling algorithm (E-UPISA). , 2017, , .		1
129	Real-time opinion mining of Twitter data using spring XD and Hadoop. , 2017, , .		5
130	TFS: A reliable routing protocol for Vehicular Content Centric Networks. , 2017, , .		2
131	Mitigating broadcast storm in interest/data packet forwarding in vehicular content centric networking. , 2017, , .		12
132	Inter-process communication, MPI and MPICH in microkernel environment: A comparative analysis. , 2017, , .		0
133	A Novel Delay Constraint Location Privacy Scheme in VANETs. , 2017, , .		1
134	Protection of enterprise resources: A novel security framework. , 2017, , .		1
135	Software defined networks: An analysis on robust security practices. , 2017, , .		1
136	Big Data Analytics Using Neural Networks for Earlier Cancer Detection. Journal of Medical Imaging and Health Informatics, 2017, 7, 1469-1474.	0.2	2
137	Analysis of machine learning solutions to detect malware in android. , 2016, , .		3
138	Vdroid: A lightweight virtualization architecture for smartphones. , 2016, , .		0
139	Effective ways to use Internet of Things in the field of medical and smart health care. , 2016, , .		103
140	Conceivable security risks and authentication techniques for smart devices: A comparative evaluation of security practices. International Journal of Automation and Computing, 2016, 13, 350-363.	4.5	10
141	A survey on MAC protocols for complex self-organizing cognitive radio networks. Complex Adaptive Systems Modeling, 2016, 4, .	1.6	6
142	The framework for efficient passphrase-based multifactor authentication in cloud computing. , 2016, , .		3
143	Use of Symmetric Multiprocessor Architecture to achieve high performance computing. , 2016, , .		2
144	Car Number Plate Recognition (CNPR) system using multiple template matching. , 2016, , .		3

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145	ScreenStealer: Addressing Screenshot attacks on Android devices. , 2016, , .		4
146	Performance evaluation of IoT network infrastructure. , 2016, , .		4
147	An enhanced botnet detection technique for mobile devices using log analysis. , 2016, , .		13
148	Simulation based evaluation of DDH-MAC protocol for Cognitive Radio Networks. , 2016, , .		2
149	Secure login protocols: An analysis on modern attacks and solutions. , 2016, , .		2
150	A novel model for preserving Location Privacy in Internet of Things. , 2016, , .		16
151	Fingerprint authentication and security risks in smart devices. , 2016, , .		13
152	Survey on security threats of smartphones in Internet of Things. , 2016, , .		14
153	Energy efficiency in big data complex systems: a comprehensive survey of modern energy saving techniques. Complex Adaptive Systems Modeling, 2015, 3, .	1.6	9
154	Complex and adaptive networks: A survey on performance enhancements attributes. , 2015, , .		2
155	Load balancing algorithms in cloud computing: A survey of modern techniques. , 2015, , .		71
156	Energy efficiency in smartphones: A survey on modern tools and techniques. , 2015, , .		4
157	Self organization based energy management techniques in mobile complex networks: a review. Complex Adaptive Systems Modeling, 2015, 3, .	1.6	5
158	Organization Based Intelligent Process Scheduling Algorithm (OIPSA). , 2015, , .		1
159	Enhanced micro-TCB approach for smartphone security. , 2014, , .		0
160	An Analysis on Decentralized Adaptive MAC Protocols for Cognitive Radio Networks. International Journal of Automation and Computing, 2013, 10, 46-52.	4.5	8
161	Control channel etiquettes: Implementation and evaluation of a hybrid approach for cognitive radio networks. , 2013, , .		1
162	Efficient Deployment of Relay Stations in IEEE802.16m for Cost Effective Performance. Procedia Computer Science, 2012, 10, 992-997.	1.2	2

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163	Network Performance Optimization: A Case Study of Enterprise Network Simulated in OPNET. , 2011, , .		2