

# 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	Green IoT: An Investigation on Energy Saving Practices for 2020 and Beyond. IEEE Access, 2017, 5, 15667-15681.	2.6	244
2	SAMADroid: A Novel 3-Level Hybrid Malware Detection Model for Android Operating System. IEEE Access, 2018, 6, 4321-4339.	2.6	133
3	Comparative Analysis of Machine Learning Techniques for Predicting Air Quality in Smart Cities. IEEE Access, 2019, 7, 128325-128338.	2.6	131
4	Perception layer security in Internet of Things. Future Generation Computer Systems, 2019, 100, 144-164.	4.9	131
5	Prediction of Diabetes Using Machine Learning Algorithms in Healthcare. , 2018, , .		118
6	A Novel Bio-Inspired Hybrid Algorithm (NBIHA) for Efficient Resource Management in Fog Computing. IEEE Access, 2019, 7, 115760-115773.	2.6	106
7	Effective ways to use Internet of Things in the field of medical and smart health care. , 2016, , .		103
8	A Novel Internet of Things-Enabled Accident Detection and Reporting System for Smart City Environments. Sensors, 2019, 19, 2071.	2.1	101
9	5G Vehicular Network Resource Management for Improving Radio Access Through Machine Learning. IEEE Access, 2020, 8, 6792-6800.	2.6	91
10	IoT security: A layered approach for attacks & defenses. , 2017, , .		73
11	Load balancing algorithms in cloud computing: A survey of modern techniques. , 2015, , .		71
12	Software Defined Network (SDN) Based Internet of Things (IoT). , 2017, , .		64
13	Cascading handcrafted features and Convolutional Neural Network for IoT-enabled brain tumor segmentation. Computer Communications, 2020, 153, 196-207.	3.1	63
14	IoT based smart home: Security challenges, security requirements and solutions. , 2017, , .		61
15	Delay-Aware Accident Detection and Response System Using Fog Computing. IEEE Access, 2019, 7, 70975-70985.	2.6	52
16	Smart Road Traffic Accidents Reduction Strategy Based on Intelligent Transportation Systems (TARS). Sensors, 2018, 18, 1983.	2.1	43
17	Named Data Networking for Efficient IoT-based Disaster Management in a Smart Campus. Sustainability, 2020, 12, 3088.	1.6	41
18	Data mining techniques and applications " A decade review. , 2017, , .		39

#	ARTICLE	IF	CITATIONS
19	Towards greener smart cities and road traffic forecasting using air pollution data. Sustainable Cities and Society, 2021, 72, 103062.	5.1	39
20	Comparison of Machine Learning Algorithms in Data classification. , 2018, , .		37
21	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
22	Multi-tier authentication schemes for fog computing: Architecture, security perspective, and challenges. International Journal of Communication Systems, 2022, 35, e4033.	1.6	34
23	ESOT: a new privacy model for preserving location privacy in Internet of Things. Telecommunication Systems, 2018, 67, 553-575.	1.6	31
24	Fog computing: Security issues, solutions and robust practices. , 2017, , .		29
25	A Comprehensive Review of Computing Paradigms, Enabling Computation Offloading and Task Execution in Vehicular Networks. IEEE Access, 2022, 10, 3580-3600.	2.6	28
26	Counter Measuring Conceivable Security Threats on Smart Healthcare Devices. IEEE Access, 2018, 6, 20722-20733.	2.6	27
27	Detection of Parkinson Disease in Brain MRI using Convolutional Neural Network. , 2018, , .		27
28	IoT based ransomware growth rate evaluation and detection using command and control blacklisting. , 2017, , .		26
29	An Attribute-Based Access Control for IoT Using Blockchain and Smart Contracts. Sustainability, 2021, 13, 10556.	1.6	26
30	E-Lithe: A Lightweight Secure DTLS for IoT. , 2017, , .		25
31	Resource allocation in SDN based 5G cellular networks. Peer-to-Peer Networking and Applications, 2019, 12, 514-538.	2.6	25
32	Big data analytics for mitigating broadcast storm in Vehicular Content Centric networks. Future Generation Computer Systems, 2018, 86, 1301-1320.	4.9	24
33	Offensive Security: Towards Proactive Threat Hunting via Adversary Emulation. IEEE Access, 2021, 9, 126023-126033.	2.6	24
34	VBPC: Velocity based pseudonym changing strategy to protect location privacy of vehicles in VANET. , 2017, , .		23
35	iCAFE: Intelligent Congestion Avoidance and Fast Emergency services. Future Generation Computer Systems, 2019, 99, 365-375.	4.9	23
36	Leveraging Named Data Networking for Fragmented Networks in Smart Metropolitan Cities. IEEE Access, 2018, 6, 75899-75911.	2.6	22

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37	Social Internet of Vehicles: Complexity, Adaptivity, Issues and Beyond. IEEE Access, 2018, 6, 62089-62106.	2.6	22
38	A Novel Fog-Based Multi-Level Energy-Efficient Framework for IoT-Enabled Smart Environments. IEEE Access, 2020, 8, 150010-150026.	2.6	22
39	Privacy Preservation in Resource-Constrained IoT Devices Using Blockchain—A Survey. Electronics (Switzerland), 2021, 10, 1732.	1.8	21
40	Machine Learning-based Mist Computing Enabled Internet of Battlefield Things. ACM Transactions on Internet Technology, 2021, 21, 1-26.	3.0	21
41	Holistic approach for coupling privacy with safety in VANETs. Computer Networks, 2019, 148, 214-230.	3.2	19
42	Hybrid AES-ECC Model for the Security of Data over Cloud Storage. Electronics (Switzerland), 2021, 10, 2673.	1.8	19
43	Traffic Flow Prediction: An Intelligent Scheme for Forecasting Traffic Flow Using Air Pollution Data in Smart Cities with Bagging Ensemble. Sustainability, 2022, 14, 4164.	1.6	19
44	Towards Energy Efficient Smart Grids Using Bio-Inspired Scheduling Techniques. IEEE Access, 2020, 8, 158947-158960.	2.6	18
45	Futuristic blockchain based scalable and cost-effective 5G vehicular network architecture. Vehicular Communications, 2021, 31, 100386.	2.7	17
46	A novel model for preserving Location Privacy in Internet of Things. , 2016, , .		16
47	Fog Computing based Automated Accident Detection and Emergency Response System using Android Smartphone. , 2018, , .		16
48	Emotion Classification and Crowd Source Sensing; A Lexicon Based Approach. IEEE Access, 2019, 7, 27124-27134.	2.6	16
49	An IoT based robust healthcare model for continuous health monitoring. , 2017, , .		15
50	Survey on security threats of smartphones in Internet of Things. , 2016, , .		14
51	An enhanced botnet detection technique for mobile devices using log analysis. , 2016, , .		13
52	Fingerprint authentication and security risks in smart devices. , 2016, , .		13
53	5G cellular network integration with SDN: Challenges, issues and beyond. , 2017, , .		12
54	Mitigating broadcast storm in interest/data packet forwarding in vehicular content centric networking. , 2017, , .		12

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55	Exploiting Big Data Analytics for Smart Urban Planning. , 2018, , .		12
56	Volunteer Computing in Connected Vehicles: Opportunities and Challenges. IEEE Network, 2020, 34, 212-218.	4.9	11
57	Location Proof Systems for Smart Internet of Things: Requirements, Taxonomy, and Comparative Analysis. Electronics (Switzerland), 2020, 9, 1776.	1.8	11
58	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
59	Human Bond Communications: Architectures, Challenges, and Possibilities. IEEE Communications Magazine, 2019, 57, 19-25.	4.9	10
60	Vehicle-Life Interaction in Fog-Enabled Smart Connected and Autonomous Vehicles. IEEE Access, 2021, 9, 7402-7420.	2.6	10
61	Energy efficiency in big data complex systems: a comprehensive survey of modern energy saving techniques. Complex Adaptive Systems Modeling, 2015, 3, .	1.6	9
62	DDoS in IoT: A Roadmap Towards Security & Countermeasures. , 2019, , .		9
63	CCN: A novel energy efficient greedy routing protocol for green computing. Concurrency Computation Practice and Experience, 2019, 31, e4461.	1.4	9
64	An infrastructure-assisted job scheduling and task coordination in volunteer computing-based VANET. Complex & Intelligent Systems, 2023, 9, 3613-3633.	4.0	9
65	Privacyâ€preserving multilevel obfuscation scheme for vehicular network. Transactions on Emerging Telecommunications Technologies, 2021, 32, e4204.	2.6	9
66	A Novel Amended Dynamic Round Robin Scheduling Algorithm for Timeshared Systems. International Arab Journal of Information Technology, 2020, 17, 90-98.	0.5	9
67	An Analysis on Decentralized Adaptive MAC Protocols for Cognitive Radio Networks. International Journal of Automation and Computing, 2013, 10, 46-52.	4.5	8
68	Survey on Causes of Motion Sickness in Virtual Reality. , 2018, , .		8
69	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
70	Virtual Pseudonym-Changing and Dynamic Grouping Policy for Privacy Preservation in VANETs. Sensors, 2021, 21, 3077.	2.1	8
71	A survey on resource allocation in software defined networks (SDN). , 2017, , .		7
72	Intelligent Transport System: An Important Aspect of Emergency Management in Smart Cities. , 2018, , .		7

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73	Big Data in Healthcare: A Survey. EAI/Springer Innovations in Communication and Computing, 2019, , 143-152.	0.9	7
74	VANET-Based Volunteer Computing (VBVC): A Computational Paradigm for Future Autonomous Vehicles. IEEE Access, 2020, 8, 71763-71774.	2.6	7
75	Hybrid Task Coordination Using Multi-Hop Communication in Volunteer Computing-Based VANETs. Sensors, 2021, 21, 2718.	2.1	7
76	Cross-Domain Security and Interoperability in Internet of Things. IEEE Internet of Things Journal, 2022, 9, 11993-12000.	5.5	7
77	A Blockchain-Based Authentication Solution for 6G Communication Security in Tactile Networks. Electronics (Switzerland), 2022, 11, 1374.	1.8	7
78	A survey on MAC protocols for complex self-organizing cognitive radio networks. Complex Adaptive Systems Modeling, 2016, 4, .	1.6	6
79	A new cross layer MAC protocol for data forwarding in underwater acoustic sensor networks. , 2017, , .		6
80	Information-centric networking: A review on futuristic networks. , 2017, , .		6
81	Software Cost and Effort Estimation using a New Optimization Algorithm Inspired by Strawberry Plant. , 2018, , .		6
82	Statistical Topic Modeling for Urdu Text Articles. , 2018, , .		6
83	Evaluating Bio-Inspired Optimization Techniques for Utility Price Estimation in Fog Computing. , 2018, , .		6
84	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
85	Evaluation of the Impact of Traffic Congestion Based on SUMO. , 2019, , .		6
86	An intelligent framework to predict socioeconomic impacts of COVID-19 and public sentiments. Computers and Electrical Engineering, 2021, 96, 107526.	3.0	6
87	Self organization based energy management techniques in mobile complex networks: a review. Complex Adaptive Systems Modeling, 2015, 3, .	1.6	5
88	A survey of internet of things, enabling technologies and protocols. , 2017, , .		5
89	Enhanced car number plate recognition (ECNPR) system by improving efficiency in preprocessing steps. , 2017, , .		5
90	Iris recognition system in smartphones using light version (LV) recognition algorithm. , 2017, , .		5

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91	A smart parking system to minimize searching time, fuel consumption and CO2 emission. , 2017, , .		5
92	Real-time opinion mining of Twitter data using spring XD and Hadoop. , 2017, , .		5
93	A VANET based Smart Car Parking System to Minimize Searching Time, Fuel Consumption and CO <sub>2</sub> Emission. , 2018, , .		5
94	Barriers of Requirement Change Management Process in the Context of Global Software Development. , 2019, , .		5
95	Fuzzy Logic-Based Novel Hybrid Fuel Framework for Modern Vehicles. IEEE Access, 2020, 8, 160596-160606.	2.6	5
96	Achieving data privacy for decision support systems in times of massive data sharing. Cluster Computing, 2022, 25, 3037-3049.	3.5	5
97	Multi-Factor Rear-End Collision Avoidance in Connected Autonomous Vehicles. Applied Sciences (Switzerland), 2022, 12, 1049.	1.3	5
98	Energy efficiency in smartphones: A survey on modern tools and techniques. , 2015, , .		4
99	ScreenStealer: Addressing Screenshot attacks on Android devices. , 2016, , .		4
100	Performance evaluation of IoT network infrastructure. , 2016, , .		4
101	Smart city: A roadmap towards implementation. , 2017, , .		4
102	OptiSEC: In search of an optimal sensor cloud architecture. , 2017, , .		4
103	Authentication analysis using input gestures in touch-based mobile devices. , 2017, , .		4
104	Review of model-free gait recognition in biometric systems. , 2017, , .		4
105	A Novel Framework for Plagiarism Detection: A Case Study for Urdu Language. , 2018, , .		4
106	A Novel Authentication and Security Protocol for Wireless Adhoc Networks. , 2018, , .		4
107	LAOD: Link Aware on Demand Routing in Flying Ad-Hoc Networks. , 2019, , .		4
108	FIViz: Forensics Investigation through Visualization for Malware in Internet of Things. Sustainability, 2020, 12, 7262.	1.6	4

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109	A Distributed Mix-Context-Based Method for Location Privacy in Road Networks. Sustainability, 2021, 13, 12513.	1.6	4
110	Adaptive Grouping and Pseudonym Changing Policy for Protection of Vehicles Location Information in VANETs. , 2021, , .		4
111	Towards an effective model for lung disease classification. Applied Soft Computing Journal, 2022, 124, 109077.	4.1	4
112	Analysis of machine learning solutions to detect malware in android. , 2016, , .		3
113	The framework for efficient passphrase-based multifactor authentication in cloud computing. , 2016, , .		3
114	Car Number Plate Recognition (CNPR) system using multiple template matching. , 2016, , .		3
115	Impact of Membership and Non-membership Features on Classification Decision: An Empirical Study for Appraisal of Feature Selection Methods. , 2018, , .		3
116	Network of ECUs Software Update in Future vehicles. , 2019, , .		3
117	Hierarchical Topic Modeling for Urdu Text Articles. , 2019, , .		3
118	A Survey on secure routing strategies in VANETs. , 2019, , .		3
119	Collaborative multi-agents in dynamic industrial internet of things using deep reinforcement learning. Environment, Development and Sustainability, 2022, 24, 9481-9499.	2.7	3
120	Network Performance Optimization: A Case Study of Enterprise Network Simulated in OPNET. , 2011, , .		2
121	Efficient Deployment of Relay Stations in IEEE802.16m for Cost Effective Performance. Procedia Computer Science, 2012, 10, 992-997.	1.2	2
122	Complex and adaptive networks: A survey on performance enhancements attributes. , 2015, , .		2
123	Use of Symmetric Multiprocessor Architecture to achieve high performance computing. , 2016, , .		2
124	Simulation based evaluation of DDH-MAC protocol for Cognitive Radio Networks. , 2016, , .		2
125	Secure login protocols: An analysis on modern attacks and solutions. , 2016, , .		2
126	Online Signature Verification: A Survey on Authentication in Smartphones. Lecture Notes in Electrical Engineering, 2017, , 471-480.	0.3	2



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127	TFS: A reliable routing protocol for Vehicular Content Centric Networks. , 2017, , .		2
128	Integrated Architecture of Data Warehouse with Business Intelligence Technologies. , 2018, , .		2
129	Full Disk Encryption. , 2018, , .		2
130	Analyzing Quality of Software Requirements; A Comparison Study on NLP Tools. , 2019, , .		2
131	A Novel Model for HD video calling in 5G Networks. , 2019, , .		2
132	Big Data Analytics Using Neural Networks for Earlier Cancer Detection. Journal of Medical Imaging and Health Informatics, 2017, 7, 1469-1474.	0.2	2
133	Control channel etiquettes: Implementation and evaluation of a hybrid approach for cognitive radio networks. , 2013, , .		1
134	Organization Based Intelligent Process Scheduling Algorithm (OIPSA). , 2015, , .		1
135	A review: Security challenges in cognitive radio networks. , 2017, , .		1
136	EMCA: Efficient multicasting and collision avoidance in CC-MANETs. , 2017, , .		1
137	The green 2020: Impact of smartphones on the environment in present and future. , 2017, , .		1
138	Enhanced user preference based intelligent scheduling algorithm (E-UPISA). , 2017, , .		1
139	A Novel Delay Constraint Location Privacy Scheme in VANETs. , 2017, , .		1
140	Protection of enterprise resources: A novel security framework. , 2017, , .		1
141	Software defined networks: An analysis on robust security practices. , 2017, , .		1
142	EK-Healthcare: Effectiveness of IoT in the Medical Field with Enhanced Features. , 2018, , .		1
143	A Review of Smartphone's Text Entry for Visually Impaired. , 2018, , .		1
144	AWS Support in Open Source Mano Monitoring Module. , 2018, , .		1

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145	Internet Traffic Flow Analysis in Fog Computing: An Experimental Case Study. EAI/Springer Innovations in Communication and Computing, 2019, , 83-92.	0.9	1
146	Coronary Artery Bypass Grafting (CABG) Anatomy with E-Learning Environment. , 2019, , .		1
147	Smart Cities: Methods, Encounters & Hunt for Future - Survey. , 2019, , .		1
148	An Aspect of Internet of Things Security: Analysis of Digital Fingerprinting of Generic Twitter Sessions by Using Forensic Tool. , 2019, , .		1
149	URL filtering using big data analytics in 5G networks. Computers and Electrical Engineering, 2021, 95, 107379.	3.0	1
150	A Novel Privacy Paradigm for Improving Serial Data Privacy. Sensors, 2022, 22, 2811.	2.1	1
151	Enhanced micro-TCB approach for smartphone security. , 2014, , .		0
152	Vdroid: A lightweight virtualization architecture for smartphones. , 2016, , .		0
153	Towards 3-level hybrid security model for Android Operating Systems. , 2017, , .		0
154	Inter-process communication, MPI and MPICH in microkernel environment: A comparative analysis. , 2017, , .		0
155	Adaptive Transmission Power - Geographical and Energy Aware Routing Algorithm for Wireless Sensor Networks. , 2018, , .		0
156	Internet of Things " Security threats and challenges in M2M Devices. , 2018, , .		0
157	Performance Analysis of Snort using Network Function Virtualization. , 2018, , .		0
158	A methodology to characterize and compute correlation between traffic congestion and health issues via social media. , 2018, , .		0
159	NDN Based Communication for Fragmented Network: The Case of Smart Metropolitan (MAN). , 2018, , .		0
160	Complex Adaptive Systems. , 2018, , .		0
161	A Novel Technique of Dynamic Resource Allocation in Software Defined Network. , 2019, , .		0
162	A reliability aware protocol for cooperative communication in cognitive radio networks. International Journal of Automation and Computing, 2019, 16, 84-92.	4.5	0

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163	On Efficiency of Scrambled Image Forensics Service Using Support Vector Machine. Lecture Notes in Computer Science, 2019, , 16-30.	1.0	0