

Yousaf Bin Zikria

List of Publications by Year in descending order

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93
papers

3,109
citations

186209

28
h-index

175177

52
g-index

97
all docs

97
docs citations

97
times ranked

2506
citing authors

#	ARTICLE	IF	CITATIONS
1	The Future of Healthcare Internet of Things: A Survey of Emerging Technologies. IEEE Communications Surveys and Tutorials, 2020, 22, 1121-1167.	24.8	475
2	Role of IoT Technology in Agriculture: A Systematic Literature Review. Electronics (Switzerland), 2020, 9, 319.	1.8	211
3	Multimedia Internet of Things: A Comprehensive Survey. IEEE Access, 2020, 8, 8202-8250.	2.6	194
4	Future smart cities: requirements, emerging technologies, applications, challenges, and future aspects. Cities, 2022, 129, 103794.	2.7	175
5	A Survey on Resource Management in IoT Operating Systems. IEEE Access, 2018, 6, 8459-8482.	2.6	152
6	A survey on routing protocols supported by the Contiki Internet of things operating system. Future Generation Computer Systems, 2018, 82, 200-219.	4.9	92
7	Internet of Things (IoT) Operating Systems Management: Opportunities, Challenges, and Solution. Sensors, 2019, 19, 1793.	2.1	82
8	Next-Generation Internet of Things (IoT): Opportunities, Challenges, and Solutions. Sensors, 2021, 21, 1174.	2.1	69
9	5G Mobile Services and Scenarios: Challenges and Solutions. Sustainability, 2018, 10, 3626.	1.6	65
10	Impact of Feature Selection Algorithm on Speech Emotion Recognition Using Deep Convolutional Neural Network. Sensors, 2020, 20, 6008.	2.1	64
11	Deep Reinforcement Learning Paradigm for Performance Optimization of Channel Observation-Based MAC Protocols in Dense WLANs. IEEE Access, 2019, 7, 3500-3511.	2.6	62
12	Routing protocol for Low-Power and Lossy Networks for heterogeneous traffic network. Eurasip Journal on Wireless Communications and Networking, 2020, 2020, .	1.5	59
13	URLLC for 5G and Beyond: Requirements, Enabling Incumbent Technologies and Network Intelligence. IEEE Access, 2021, 9, 67064-67095.	2.6	57
14	Unlocking 5G Spectrum Potential for Intelligent IoT: Opportunities, Challenges, and Solutions. IEEE Communications Magazine, 2018, 56, 92-93.	4.9	53
15	Blockchain-based Initiatives: Current state and challenges. Computer Networks, 2021, 198, 108395.	3.2	49
16	Internet of Multimedia Things (IoMT): Opportunities, Challenges and Solutions. Sensors, 2020, 20, 2334.	2.1	47
17	An Intelligent, Secure, and Smart Home Automation System. Scientific Programming, 2020, 2020, 1-14.	0.5	45
18	Trust Mechanisms to Secure Routing in Wireless Sensor Networks: Current State of the Research and Open Research Issues. Journal of Sensors, 2017, 2017, 1-16.	0.6	44

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19	A clogging resistant secure authentication scheme for fog computing services. Computer Networks, 2021, 185, 107731.	3.2	42
20	GCACS-IoD: A certificate based generic access control scheme for Internet of drones. Computer Networks, 2021, 191, 107999.	3.2	40
21	Rotating behind Privacy: An Improved Lightweight Authentication Scheme for Cloud-based IoT Environment. ACM Transactions on Internet Technology, 2021, 21, 1-19.	3.0	35
22	Intelligent learning automata-based objective function in RPL for IoT. Sustainable Cities and Society, 2020, 59, 102234.	5.1	33
23	Cognitive Radio Networks for Internet of Things and Wireless Sensor Networks. Sensors, 2020, 20, 5288.	2.1	31
24	Incorporating Noise Robustness in Speech Command Recognition by Noise Augmentation of Training Data. Sensors, 2020, 20, 2326.	2.1	31
25	Enabling the content dissemination through caching in the state-of-the-art sustainable information and communication technologies. Sustainable Cities and Society, 2020, 61, 102291.	5.1	28
26	A secure and lightweight authentication scheme for next generation IoT infrastructure. Computer Communications, 2021, 165, 85-96.	3.1	28
27	An anonymous device to device access control based on secure certificate for internet of medical things systems. Sustainable Cities and Society, 2021, 75, 103322.	5.1	27
28	A Federated Reinforcement Learning Framework for Incumbent Technologies in Beyond 5G Networks. IEEE Network, 2021, 35, 152-159.	4.9	26
29	Q-learning based energy-efficient and void avoidance routing protocol for underwater acoustic sensor networks. Computer Networks, 2021, 197, 108309.	3.2	26
30	A Lightweight Authentication Scheme for 6G-IoT Enabled Maritime Transport System. IEEE Transactions on Intelligent Transportation Systems, 2021, , 1-10.	4.7	26
31	Optimization of Resource Allocation Model With Energy-Efficient Cooperative Sensing in Green Cognitive Radio Networks. IEEE Access, 2020, 8, 141594-141610.	2.6	25
32	Improving Mispronunciation Detection of Arabic Words for Non-Native Learners Using Deep Convolutional Neural Network Features. Electronics (Switzerland), 2020, 9, 963.	1.8	25
33	LTE in the Unlicensed Spectrum: A Survey. IETE Technical Review (Institution of Electronics and) Tj ETQq1 1 0.784314 rgBT /Overlock 10	2.1	24
34	Q-learning-enabled channel access in next-generation dense wireless networks for IoT-based eHealth systems. Eurasip Journal on Wireless Communications and Networking, 2019, 2019, .	1.5	23
35	REAS-TMIS: Resource-Efficient Authentication Scheme for Telecare Medical Information System. IEEE Access, 2022, 10, 23008-23021.	2.6	23
36	A Survey on Cyber Security Threats in IoT-Enabled Maritime Industry. IEEE Transactions on Intelligent Transportation Systems, 2022, , 1-14.	4.7	23

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37	LAS-SG: An Elliptic Curve-Based Lightweight Authentication Scheme for Smart Grid Environments. IEEE Transactions on Industrial Informatics, 2023, 19, 1504-1511.	7.2	21
38	Opportunistic channel selection MAC protocol for cognitive radio ad hoc sensor networks in the internet of things. Sustainable Computing: Informatics and Systems, 2018, 18, 112-120.	1.6	20
39	DCS: Distributed Caching Strategy at the Edge of Vehicular Sensor Networks in Information-Centric Networking. Sensors, 2019, 19, 4407.	2.1	18
40	Social media intention mining for sustainable information systems: categories, taxonomy, datasets and challenges. Complex & Intelligent Systems, 2023, 9, 2773-2799.	4.0	18
41	Energy-Aware Adaptive Trickle Timer Algorithm for RPL-based Routing in the Internet of Things. , 2018, , .		16
42	Congestion avoidance and fault detection in WSNs using data science techniques. Transactions on Emerging Telecommunications Technologies, 2022, 33, e3756.	2.6	16
43	Application Mapping Using Cuckoo Search Optimization With LÃ©vy Flight for NoC-Based System. IEEE Access, 2021, 9, 141778-141789.	2.6	16
44	A Secure and Lightweight Drones-Access Protocol for Smart City Surveillance. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 19634-19643.	4.7	16
45	Artificial neural network-based cardiovascular disease prediction using spectral features. Computers and Electrical Engineering, 2022, 101, 108094.	3.0	16
46	A Comprehensive Analysis of Magnetic Field Based Indoor Positioning With Smartphones: Opportunities, Challenges and Practical Limitations. IEEE Access, 2020, 8, 228548-228571.	2.6	15
47	An Intelligent Deterministic D2D Communication in Narrow-band Internet of Things. , 2019, , .		14
48	Deep Learning (DL) Based Joint Resource Allocation and RRH Association in 5G-Multi-Tier Networks. IEEE Access, 2021, 9, 118357-118366.	2.6	14
49	Evading Virus Detection Using Code Obfuscation. Lecture Notes in Computer Science, 2010, , 394-401.	1.0	13
50	A review of wireless access vehicular environment multichannel operational medium access control protocols: Quality-of-service analysis and other related issues. International Journal of Distributed Sensor Networks, 2017, 13, 155014771771017.	1.3	13
51	Prediction Models for COVID-19 Integrating Age Groups, Gender, and Underlying Conditions. Computers, Materials and Continua, 2021, 67, 3009-3044.	1.5	13
52	Reinforcement-Learning-Enabled Massive Internet of Things for 6G Wireless Communications. IEEE Communications Standards Magazine, 2021, 5, 126-131.	3.6	13
53	Opportunistic Hybrid Transport Protocol (OHTP) for Cognitive Radio Ad Hoc Sensor Networks. Sensors, 2015, 15, 31672-31686.	2.1	12
54	SAHCI: Scheduling Approach for Heterogeneous Content-Centric IoT Applications. IEEE Access, 2019, 7, 80342-80349.	2.6	12

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55	Performance optimization of QoS-supported dense WLANs using machine-learning-enabled enhanced distributed channel access (MEDCA) mechanism. <i>Neural Computing and Applications</i> , 2020, 32, 13107-13115.	3.2	12
56	NoCGuard: A Reliable Network-on-Chip Router Architecture. <i>Electronics (Switzerland)</i> , 2020, 9, 342.	1.8	11
57	Internet of Things (IoT)-Based Wireless Health: Enabling Technologies and Applications. <i>Electronics (Switzerland)</i> , 2021, 10, 148.	1.8	11
58	TrustWalker: An Efficient Trust Assessment in Vehicular Internet of Things (VIoT) with Security Consideration. <i>Sensors</i> , 2020, 20, 3945.	2.1	10
59	Localizing pedestrians in indoor environments using magnetic field data with term frequency paradigm and deep neural networks. <i>International Journal of Machine Learning and Cybernetics</i> , 2021, 12, 3203-3219.	2.3	10
60	Performance Evaluation of DCCP and SCTP for MPEG4 Video over Wireless Networks. , 2007, , .		9
61	An energy efficient and low overhead fault mitigation technique for internet of thing edge devices reliable on-chip communication. <i>Software - Practice and Experience</i> , 2021, 51, 2393-2410.	2.5	9
62	An Optimized Nature-Inspired Metaheuristic Algorithm for Application Mapping in 2D-NoC. <i>Sensors</i> , 2021, 21, 5102.	2.1	9
63	SCTP vs. TCP Delay and Packet Loss. , 2007, , .		7
64	Fault-Tolerant Network-On-Chip Router Architecture Design for Heterogeneous Computing Systems in the Context of Internet of Things. <i>Sensors</i> , 2020, 20, 5355.	2.1	7
65	An efficient and cost effective application mapping for network-on-chip using Andean condor algorithm. <i>Journal of Network and Computer Applications</i> , 2022, 200, 103319.	5.8	7
66	Heuristic Approach to Select Opportunistic Routing Forwarders (HASORF) to Enhance Throughput for Wireless Sensor Networks. <i>Journal of Sensors</i> , 2015, 2015, 1-10.	0.6	6
67	Deep Reinforcement Learning Paradigm for Dense Wireless Networks in Smart Cities. <i>EAI/Springer Innovations in Communication and Computing</i> , 2020, , 43-70.	0.9	6
68	Blockchain-based green big data visualization: BGV. <i>Complex & Intelligent Systems</i> , 2022, 8, 3707-3718.	4.0	6
69	A secure demand response management authentication scheme for smart grid. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 48, 101571.	1.7	6
70	A Blockchain Model for Trustworthiness in the Internet of Things (IoT)-Based Smart-Cities. <i>EAI/Springer Innovations in Communication and Computing</i> , 2020, , 1-19.	0.9	6
71	LTE or LAA: Choosing Network Mode for My Mobile Phone in 5G Network. , 2017, , .		5
72	Video Transport over Heterogeneous Networks Using SCTP and DCCP. <i>Communications in Computer and Information Science</i> , 2008, , 180-190.	0.4	5

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73	Aircraft Classification Based on PCA and Feature Fusion Techniques in Convolutional Neural Network. IEEE Access, 2021, 9, 161683-161694.	2.6	5
74	Elastic caching solutions for content dissemination services of ip-based internet technologies prospective. Multimedia Tools and Applications, 2021, 80, 16997-17022.	2.6	4
75	MagWi: Benchmark Dataset for Long Term Magnetic Field and Wi-Fi Data Involving Heterogeneous Smartphones, Multiple Orientations, Spatial Diversity and Multi-Floor Buildings. IEEE Access, 2021, 9, 77976-77996.	2.6	4
76	Extended Kalman Filter-Based Power Line Interference Canceller for Electrocardiogram Signal. Big Data, 2022, 10, 34-53.	2.1	4
77	An Improved Authentication Scheme for Digital Rights Management System. Wireless Communications and Mobile Computing, 2022, 2022, 1-11.	0.8	4
78	Quality of service analysis for multimedia traffic using DSR, AODV and TORA over Wi-Media ultra wide band. , 2015, , .		3
79	Data-driven intelligence in wireless networks: Issues, challenges, and solution. Transactions on Emerging Telecommunications Technologies, 2019, 30, e3722.	2.6	3
80	A three-dimensional clustered peer-to-peer overlay protocol for mobile ad hoc networks. Computers and Electrical Engineering, 2021, 94, 107364.	3.0	3
81	Efficient Neighbour Feedback Based Trusted Multi Authenticated Node Routing Model for Secure Data Transmission. Sustainability, 2021, 13, 13296.	1.6	3
82	System-Level Performance Analysis of Cooperative Multiple Unmanned Aerial Vehicles for Wildfire Surveillance Using Agent-Based Modeling. Sustainability, 2022, 14, 5927.	1.6	3
83	Congestion control routing using optimal channel assignment mechanism in wireless mesh network. , 2017, , .		2
84	I-DTMC: An Integrated-Discrete Time Markov Chain Model for Performance Analysis in Future WLANs. , 2017, , .		2
85	Improvement of spectrum utilization with retransmission in cognitive radio networks: Analytical approach. , 2017, , .		2
86	Ensembling Neural Networks for User's Indoor Localization Using Magnetic Field Data from Smartphones. Computers, Materials and Continua, 2021, 68, 2597-2620.	1.5	2
87	An Analytical Approach to Opportunistic Transmission under Rayleigh Fading Channels. International Journal of Distributed Sensor Networks, 2015, 11, 725198.	1.3	2
88	IoT THEORETICAL TO PRACTICAL: CONTIKI-OS AND ZOLERTIA REMOTE. Far East Journal of Electronics and Communications, 2017, 17, 915-921.	0.2	2
89	Contiki-OS IoT data analytics. , 2020, , 83-103.		1
90	A new opportunistic routing forwarders selection scheme to enhance throughput for wireless networks. , 2015, , .		0

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91	COLLISION MITIGATION SCHEME FOR NDN-RIOT-OS BASED INTERNET OF THINGS. Far East Journal of Electronics and Communications, 2017, 17, 863-876.	0.2	0
92	RIOT-OS: FIRMWARE FOR FUTURISTIC INTERNET OF THINGS. Far East Journal of Electronics and Communications, 2017, 17, 877-887.	0.2	0
93	Artificial Intelligence and Tactile Healthcare for Mitigating the Impact of COVID-19. , 2021, 6, 1-7.		0