

Muhammad Ali Imran

List of Publications by Year in descending order

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533
papers

19,508
citations

19657

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22832

112
g-index

563
all docs

563
docs citations

563
times ranked

15968
citing authors

#	ARTICLE	IF	CITATIONS
1	An overview on smart contracts: Challenges, advances and platforms. Future Generation Computer Systems, 2020, 105, 475-491.	7.5	568
2	Internet-of-Things-Based Smart Cities: Recent Advances and Challenges. , 2017, 55, 16-24.		455
3	Internet of Things Architecture: Recent Advances, Taxonomy, Requirements, and Open Challenges. IEEE Wireless Communications, 2017, 24, 10-16.	9.0	442
4	The role of big data analytics in Internet of Things. Computer Networks, 2017, 129, 459-471.	5.1	439
5	A smart healthcare monitoring system for heart disease prediction based on ensemble deep learning and feature fusion. Information Fusion, 2020, 63, 208-222.	19.1	429
6	A Survey of Machine Learning Techniques Applied to Self-Organizing Cellular Networks. IEEE Communications Surveys and Tutorials, 2017, 19, 2392-2431.	39.4	352
7	Software-Defined Industrial Internet of Things in the Context of Industry 4.0. IEEE Sensors Journal, 2016, , 1-1.	4.7	351
8	A Deep Learning-Based Framework for Automatic Brain Tumors Classification Using Transfer Learning. Circuits, Systems, and Signal Processing, 2020, 39, 757-775.	2.0	323
9	Internet-of-things-based smart environments: state of the art, taxonomy, and open research challenges. IEEE Wireless Communications, 2016, 23, 10-16.	9.0	315
10	5G for Vehicular Communications. , 2018, 56, 111-117.		272
11	Uplink non-orthogonal multiple access for 5G wireless networks. , 2014, , .		270
12	The Role of Edge Computing in Internet of Things. IEEE Communications Magazine, 2018, 56, 110-115.	6.1	260
13	Real-time big data processing for anomaly detection: A Survey. International Journal of Information Management, 2019, 45, 289-307.	17.5	245
14	Techno economic analysis of a wind-photovoltaic-biomass hybrid renewable energy system for rural electrification: A case study of Kallar Kahar. Energy, 2018, 148, 208-234.	8.8	242
15	A Blockchain-Based Solution for Enhancing Security and Privacy in Smart Factory. IEEE Transactions on Industrial Informatics, 2019, 15, 3652-3660.	11.3	242
16	The role of big data analytics in industrial Internet of Things. Future Generation Computer Systems, 2019, 99, 247-259.	7.5	234
17	A Deep Learning Model Based on Concatenation Approach for the Diagnosis of Brain Tumor. IEEE Access, 2020, 8, 55135-55144.	4.2	219
18	An intelligent healthcare monitoring framework using wearable sensors and social networking data. Future Generation Computer Systems, 2021, 114, 23-43.	7.5	215

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19	Deep learning and big data technologies for IoT security. Computer Communications, 2020, 151, 495-517.	5.1	209
20	Complementing IoT Services Through Software Defined Networking and Edge Computing: A Comprehensive Survey. IEEE Communications Surveys and Tutorials, 2020, 22, 1761-1804.	39.4	208
21	Mobile Crowd Sensing for Traffic Prediction in Internet of Vehicles. Sensors, 2016, 16, 88.	3.8	200
22	Adaptive Transmission Optimization in SDN-Based Industrial Internet of Things With Edge Computing. IEEE Internet of Things Journal, 2018, 5, 1351-1360.	8.7	200
23	The rise of ransomware and emerging security challenges in the Internet of Things. Computer Networks, 2017, 129, 444-458.	5.1	197
24	6G Wireless Systems: A Vision, Architectural Elements, and Future Directions. IEEE Access, 2020, 8, 147029-147044.	4.2	193
25	A Scalable Multi-Layer PBFT Consensus for Blockchain. IEEE Transactions on Parallel and Distributed Systems, 2021, 32, 1146-1160.	5.6	184
26	Blockchain-Enabled Wireless Internet of Things: Performance Analysis and Optimal Communication Node Deployment. IEEE Internet of Things Journal, 2019, 6, 5791-5802.	8.7	182
27	Big data analytics for preventive medicine. Neural Computing and Applications, 2020, 32, 4417-4451.	5.6	175
28	Big data analytics for manufacturing internet of things: opportunities, challenges and enabling technologies. Enterprise Information Systems, 2020, 14, 1279-1303.	4.7	169
29	A Hybrid Computing Solution and Resource Scheduling Strategy for Edge Computing in Smart Manufacturing. IEEE Transactions on Industrial Informatics, 2019, 15, 4225-4234.	11.3	155
30	Autonomous Driving Cars in Smart Cities: Recent Advances, Requirements, and Challenges. IEEE Network, 2020, 34, 174-181.	6.9	155
31	Bringing Computation Closer toward the User Network: Is Edge Computing the Solution?. , 2017, 55, 138-144.		152
32	Security in Software-Defined Networking: Threats and Countermeasures. Mobile Networks and Applications, 2016, 21, 764-776.	3.3	147
33	Securing IoTs in distributed blockchain: Analysis, requirements and open issues. Future Generation Computer Systems, 2019, 100, 325-343.	7.5	144
34	Securing software defined networks: taxonomy, requirements, and open issues. , 2015, 53, 36-44.		143
35	Securing Smart Cities through Blockchain Technology: Architecture, Requirements, and Challenges. IEEE Network, 2020, 34, 8-14.	6.9	141
36	Transformer based Deep Intelligent Contextual Embedding for Twitter sentiment analysis. Future Generation Computer Systems, 2020, 113, 58-69.	7.5	139

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37	Unmanned aerial vehicle for internet of everything: Opportunities and challenges. Computer Communications, 2020, 155, 66-83.	5.1	138
38	BeepTrace: Blockchain-Enabled Privacy-Preserving Contact Tracing for COVID-19 Pandemic and Beyond. IEEE Internet of Things Journal, 2021, 8, 3915-3929.	8.7	138
39	Blockchain for Digital Twins: Recent Advances and Future Research Challenges. IEEE Network, 2020, 34, 290-298.	6.9	136
40	Toward Dynamic Resources Management for IoT-Based Manufacturing. , 2018, 56, 52-59.		132
41	Perception layer security in Internet of Things. Future Generation Computer Systems, 2019, 100, 144-164.	7.5	131
42	Mobile Health in the Developing World: Review of Literature and Lessons From a Case Study. IEEE Access, 2017, 5, 11540-11556.	4.2	126
43	Internet of Things (IoT) in 5G Wireless Communications. IEEE Access, 2016, 4, 10310-10314.	4.2	123
44	Efficient Brain Tumor Segmentation With Multiscale Two-Pathway-Group Conventional Neural Networks. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 1911-1919.	6.3	120
45	Radio Resource Management Scheme in NB-IoT Systems. IEEE Access, 2018, 6, 15051-15064.	4.2	115
46	Machine Learning Techniques for 5G and Beyond. IEEE Access, 2021, 9, 23472-23488.	4.2	111
47	iM-SIMPLE: iMproved stable increased-throughput multi-hop link efficient routing protocol for Wireless Body Area Networks. Computers in Human Behavior, 2015, 51, 1003-1011.	8.5	110
48	Robust Spammer Detection Using Collaborative Neural Network in Internet-of-Things Applications. IEEE Internet of Things Journal, 2021, 8, 9549-9558.	8.7	109
49	Self-Powered Implantable Medical Devices: Photovoltaic Energy Harvesting Review. Advanced Healthcare Materials, 2020, 9, e2000779.	7.6	107
50	Refining Parkinson's neurological disorder identification through deep transfer learning. Neural Computing and Applications, 2020, 32, 839-854.	5.6	105
51	Challenges, Applications, and Future of Wireless Sensors in Internet of Things: A Review. IEEE Sensors Journal, 2022, 22, 5482-5494.	4.7	105
52	An Intelligent Non-Invasive Real-Time Human Activity Recognition System for Next-Generation Healthcare. Sensors, 2020, 20, 2653.	3.8	104
53	Big Data Analytics in Industrial IoT Using a Concentric Computing Model. , 2018, 56, 37-43.		101
54	Traffic accident detection and condition analysis based on social networking data. Accident Analysis and Prevention, 2021, 151, 105973.	5.7	99

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55	Co-LAEEBA: Cooperative link aware and energy efficient protocol for wireless body area networks. Computers in Human Behavior, 2015, 51, 1205-1215.	8.5	97
56	Reconfigurable Smart Factory for Drug Packing in Healthcare Industry 4.0. IEEE Transactions on Industrial Informatics, 2019, 15, 507-516.	11.3	97
57	M2M Communications in 5G: State-of-the-Art Architecture, Recent Advances, and Research Challenges. , 2017, 55, 194-201.		92
58	Overcoming the Key Challenges to Establishing Vehicular Communication: Is SDN the Answer?. , 2017, 55, 128-134.		88
59	Mobile ad hoc cloud: A survey. Wireless Communications and Mobile Computing, 2016, 16, 2572-2589.	1.2	87
60	A survey of simulators, emulators and testbeds for wireless sensor networks. , 2010, , .		86
61	Blockchain for cloud exchange: A survey. Computers and Electrical Engineering, 2020, 81, 106526.	4.8	86
62	A Survey of Self-Interference Management Techniques for Single Frequency Full Duplex Systems. IEEE Access, 2018, 6, 30242-30268.	4.2	81
63	Precision Techniques and Agriculture 4.0 Technologies to Promote Sustainability in the Coffee Sector: State of the Art, Challenges and Future Trends. IEEE Access, 2020, 8, 149854-149867.	4.2	81
64	Blockchain-Enabled Internet of Medical Things to Combat COVID-19. IEEE Internet of Things Magazine, 2020, 3, 52-57.	2.6	76
65	Localized motion-based connectivity restoration algorithms for wireless sensor and actor networks. Journal of Network and Computer Applications, 2012, 35, 844-856.	9.1	71
66	A Review on the Role of Nano-Communication in Future Healthcare Systems: A Big Data Analytics Perspective. IEEE Access, 2018, 6, 41903-41920.	4.2	70
67	UAV-enabled healthcare architecture: Issues and challenges. Future Generation Computer Systems, 2019, 97, 425-432.	7.5	69
68	Performance Analysis of Different Types of Machine Learning Classifiers for Non-Technical Loss Detection. IEEE Access, 2020, 8, 16033-16048.	4.2	68
69	Have You Been a Victim of COVID-19-Related Cyber Incidents? Survey, Taxonomy, and Mitigation Strategies. IEEE Access, 2020, 8, 124134-124144.	4.2	67
70	Handwriting dynamics assessment using deep neural network for early identification of Parkinson's disease. Future Generation Computer Systems, 2021, 117, 234-244.	7.5	67
71	Cloud-assisted gamification for education and learning " Recent advances and challenges. Computers and Electrical Engineering, 2019, 74, 22-34.	4.8	66
72	Blending Big Data Analytics: Review on Challenges and a Recent Study. IEEE Access, 2020, 8, 3629-3645.	4.2	66

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73	Data-driven prognosis method using hybrid deep recurrent neural network. Applied Soft Computing Journal, 2020, 93, 106351.	7.2	66
74	Secure Authentication for Remote Patient Monitoring with Wireless Medical Sensor Networks. Sensors, 2016, 16, 424.	3.8	65
75	Exact String Matching Algorithms: Survey, Issues, and Future Research Directions. IEEE Access, 2019, 7, 69614-69637.	4.2	64
76	A Review of the State of the Art in Non-Contact Sensing for COVID-19. Sensors, 2020, 20, 5665.	3.8	64
77	Emergency Message Dissemination Schemes Based on Congestion Avoidance in VANET and Vehicular FoG Computing. IEEE Access, 2019, 7, 1570-1585.	4.2	63
78	Cloud Based Secure Service Providing for IoTs Using Blockchain. , 2019, , .		61
79	Delay and energy consumption analysis of priority guaranteed MAC protocol for wireless body area networks. Wireless Networks, 2017, 23, 1249-1266.	3.0	60
80	Co-EEORS: Cooperative Energy Efficient Optimal Relay Selection Protocol for Underwater Wireless Sensor Networks. IEEE Access, 2018, 6, 28777-28789.	4.2	60
81	Routing Schemes in FANETs: A Survey. Sensors, 2020, 20, 38.	3.8	60
82	An Enhanced Energy Balanced Data Transmission Protocol for Underwater Acoustic Sensor Networks. Sensors, 2016, 16, 487.	3.8	59
83	Blockchain-based data privacy management with Nudge theory in open banking. Future Generation Computer Systems, 2020, 110, 812-823.	7.5	58
84	Improving Cognitive Ability of Edge Intelligent IIoT through Machine Learning. IEEE Network, 2019, 33, 61-67.	6.9	57
85	Machine Learning Driven Approach Towards the Quality Assessment of Fresh Fruits Using Non-Invasive Sensing. IEEE Sensors Journal, 2020, 20, 2075-2083.	4.7	57
86	Mobile crowd sensing " Taxonomy, applications, challenges, and solutions. Computers in Human Behavior, 2019, 101, 352-370.	8.5	56
87	Investigating Smart Home Security: Is Blockchain the Answer?. IEEE Access, 2020, 8, 117802-117816.	4.2	55
88	Full Ground Ultra-Wideband Wearable Textile Antenna for Breast Cancer and Wireless Body Area Network Applications. Micromachines, 2021, 12, 322.	2.9	55
89	Efficient Data Gathering in 3D Linear Underwater Wireless Sensor Networks Using Sink Mobility. Sensors, 2016, 16, 404.	3.8	54
90	An Overview of Post-Disaster Emergency Communication Systems in the Future Networks. IEEE Wireless Communications, 2019, 26, 132-139.	9.0	54

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91	Extending the Technology Acceptance Model for Use of e-Learning Systems by Digital Learners. IEEE Access, 2018, 6, 73395-73404.	4.2	52
92	Securing Internet of Medical Things with Friendly-jamming schemes. Computer Communications, 2020, 160, 431-442.	5.1	51
93	DEKCS: A Dynamic Clustering Protocol to Prolong Underwater Sensor Networks. IEEE Sensors Journal, 2021, 21, 9457-9464.	4.7	51
94	A Blockchain Model for Fair Data Sharing in Deregulated Smart Grids. , 2019, , .		50
95	SDN-Based Load Balancing Service for Cloud Servers. IEEE Communications Magazine, 2018, 56, 106-111.	6.1	49
96	A First Look at Privacy Analysis of COVID-19 Contact-Tracing Mobile Applications. IEEE Internet of Things Journal, 2021, 8, 15796-15806.	8.7	49
97	Lightweight Searchable Encryption Protocol for Industrial Internet of Things. IEEE Transactions on Industrial Informatics, 2021, 17, 4248-4259.	11.3	49
98	Pervasive blood pressure monitoring using Photoplethysmogram (PPG) sensor. Future Generation Computer Systems, 2019, 98, 120-130.	7.5	48
99	A Reconfigurable Method for Intelligent Manufacturing Based on Industrial Cloud and Edge Intelligence. IEEE Internet of Things Journal, 2020, 7, 4248-4259.	8.7	48
100	Recent Advances and Challenges in Mobile Big Data. , 2018, 56, 102-108.		47
101	Computationally Intelligent Techniques for Resource Management in MmWave Small Cell Networks. IEEE Wireless Communications, 2018, 25, 32-39.	9.0	47
102	Hybrid Deep Learning: An Efficient Reconnaissance and Surveillance Detection Mechanism in SDN. IEEE Access, 2020, 8, 134695-134706.	4.2	47
103	Impact of IoT on Manufacturing Industry 4.0: A New Triangular Systematic Review. Sustainability, 2021, 13, 12506.	3.2	47
104	Performance analysis of reactive connectivity restoration algorithms for wireless sensor and actor networks. , 2013, , .		46
105	Blind Detection of Copy-Move Forgery in Digital Audio Forensics. IEEE Access, 2017, 5, 12843-12855.	4.2	45
106	Technology-Assisted Decision Support System for Efficient Water Utilization: A Real-Time Testbed for Irrigation Using Wireless Sensor Networks. IEEE Access, 2018, 6, 25686-25697.	4.2	45
107	Industrial Wastewater Management using Blockchain Technology: Architecture, Requirements, and Future Directions. IEEE Internet of Things Magazine, 2020, 3, 38-43.	2.6	45
108	Cloud robotics in Smart Manufacturing Environments: Challenges and countermeasures. Computers and Electrical Engineering, 2017, 63, 56-65.	4.8	44

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109	Process Migration-Based Computational Offloading Framework for IoT-Supported Mobile Edge/Cloud Computing. <i>IEEE Internet of Things Journal</i> , 2020, 7, 4171-4182.	8.7	44
110	An energy-efficient distributed clustering algorithm for heterogeneous WSNs. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2015, 2015, .	2.4	43
111	Social-Aware Resource Allocation and Optimization for D2D Communication. <i>IEEE Wireless Communications</i> , 2017, 24, 122-129.	9.0	43
112	Toward an optimal solution against Denial of Service attacks in Software Defined Networks. <i>Future Generation Computer Systems</i> , 2019, 92, 444-453.	7.5	43
113	Itâ€™s all about perceptions: A DEMATEL approach to exploring user perceptions of real estate online platforms. <i>Ain Shams Engineering Journal</i> , 2021, 12, 4297-4317.	6.1	43
114	A detection and prevention system against collaborative attacks in Mobile Ad hoc Networks. <i>Future Generation Computer Systems</i> , 2017, 68, 416-427.	7.5	42
115	Cloud-based smart manufacturing for personalized candy packing application. <i>Journal of Supercomputing</i> , 2018, 74, 4339-4357.	3.6	42
116	A Heterogeneous IoV Architecture for Data Forwarding in Vehicle to Infrastructure Communication. <i>Mobile Information Systems</i> , 2019, 2019, 1-12.	0.6	40
117	Service Provisioning Framework for RAN Slicing: User Admissibility, Slice Association and Bandwidth Allocation. <i>IEEE Transactions on Mobile Computing</i> , 2021, 20, 3409-3422.	5.8	40
118	An Application Development Framework for Internet-of-Things Service Orchestration. <i>IEEE Internet of Things Journal</i> , 2020, 7, 4543-4556.	8.7	40
119	An Overview of Neuromorphic Computing for Artificial Intelligence Enabled Hardware-Based Hopfield Neural Network. <i>IEEE Access</i> , 2020, 8, 67085-67099.	4.2	39
120	Ultra-Reliable Communications for Industrial Internet of Things: Design Considerations and Channel Modeling. <i>IEEE Network</i> , 2019, 33, 104-111.	6.9	38
121	Region based cooperative routing in underwater wireless sensor networks. <i>Journal of Network and Computer Applications</i> , 2017, 92, 31-41.	9.1	37
122	Characterizing the role of vehicular cloud computing in road traffic management. <i>International Journal of Distributed Sensor Networks</i> , 2017, 13, 155014771770872.	2.2	37
123	An investigation of the drivers of social commerce and e-word-of-mouth intentions: Elucidating the role of social commerce in E-business. <i>Electronic Markets</i> , 2021, 31, 181-195.	8.1	37
124	A Hybrid and Secure Priority-Guaranteed MAC Protocol for Wireless Body Area Network. <i>International Journal of Distributed Sensor Networks</i> , 2014, 10, 481761.	2.2	36
125	On Connectivity of Wireless Sensor Networks with Directional Antennas. <i>Sensors</i> , 2017, 17, 134.	3.8	36
126	Congestion avoidance through fog computing in internet of vehicles. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2019, 10, 3863-3877.	4.9	36

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127	Flow-Aware Elephant Flow Detection for Software-Defined Networks. IEEE Access, 2020, 8, 72585-72597.	4.2	36
128	Resource Optimized Federated Learning-Enabled Cognitive Internet of Things for Smart Industries. IEEE Access, 2020, 8, 168854-168864.	4.2	36
129	Localized Algorithm for Segregation of Critical/Non-critical Nodes in Mobile Ad Hoc and Sensor Networks. Procedia Computer Science, 2013, 19, 1167-1172.	2.0	35
130	Heterogeneity-Aware Task Allocation in Mobile Ad Hoc Cloud. IEEE Access, 2017, 5, 1779-1795.	4.2	35
131	CRT-BloV: A Cognitive Radio Technique for Blockchain-Enabled Internet of Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 4005-4015.	8.0	35
132	Cloudlet Computing: Recent Advances, Taxonomy, and Challenges. IEEE Access, 2021, 9, 29609-29622.	4.2	35
133	Predictive and Core-Network Efficient RRC Signalling for Active State Handover in RANs With Control/Data Separation. IEEE Transactions on Wireless Communications, 2017, 16, 1423-1436.	9.2	34
134	Mobile Edge Computing-Based Data-Driven Deep Learning Framework for Anomaly Detection. IEEE Access, 2019, 7, 137656-137667.	4.2	34
135	Privacy-Preserving Contact Tracing and Public Risk Assessment Using Blockchain for COVID-19 Pandemic. IEEE Internet of Things Magazine, 2020, 3, 58-63.	2.6	34
136	Software-defined networks for resource allocation in cloud computing: A survey. Computer Networks, 2021, 195, 108151.	5.1	34
137	Volunteer-instigated connectivity restoration algorithm for Wireless Sensor and Actor Networks. , 2010, , .		33
138	Energy Efficient Strategy for Throughput Improvement in Wireless Sensor Networks. Sensors, 2015, 15, 2473-2495.	3.8	33
139	Clustering-based real-time anomaly detection – A breakthrough in big data technologies. Transactions on Emerging Telecommunications Technologies, 2022, 33, e3647.	3.9	33
140	Intelligent IoT Framework for Indoor Healthcare Monitoring of Parkinson’s Disease Patient. IEEE Journal on Selected Areas in Communications, 2021, 39, 593-602.	14.0	33
141	The role of unmanned aerial vehicles and mmWave in 5G: Recent advances and challenges. Transactions on Emerging Telecommunications Technologies, 2021, 32, e4241.	3.9	33
142	6G Opportunities Arising from Internet of Things Use Cases: A Review Paper. Future Internet, 2021, 13, 159.	3.8	33
143	Contactless Small-Scale Movement Monitoring System Using Software Defined Radio for Early Diagnosis of COVID-19. IEEE Sensors Journal, 2021, 21, 17180-17188.	4.7	33
144	A techno-economic analysis for power generation through wind energy: A case study of Pakistan. Energy Reports, 2021, 7, 1424-1443.	5.1	33

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145	Formal Specification and Validation of a Hybrid Connectivity Restoration Algorithm for Wireless Sensor and Actor Networks. <i>Sensors</i> , 2012, 12, 11754-11781.	3.8	32
146	Chain-Based Communication in Cylindrical Underwater Wireless Sensor Networks. <i>Sensors</i> , 2015, 15, 3625-3649.	3.8	32
147	An Efficient Method for Complex Antenna Design Based on a Self Adaptive Surrogate Model-Assisted Optimization Technique. <i>IEEE Transactions on Antennas and Propagation</i> , 2021, 69, 2302-2315.	5.1	32
148	Is blockchain for Internet of Medical Things a panacea for COVID-19 pandemic?. <i>Pervasive and Mobile Computing</i> , 2021, 75, 101434.	3.3	32
149	Energy-Aware Radio Resource Management in D2D-Enabled Multi-Tier HetNets. <i>IEEE Access</i> , 2018, 6, 16610-16622.	4.2	31
150	VANETs' LTE based heterogeneous vehicular clustering for driving assistance and route planning applications. <i>Computer Networks</i> , 2018, 145, 128-140.	5.1	30
151	Cell Fault Management Using Machine Learning Techniques. <i>IEEE Access</i> , 2019, 7, 124514-124539.	4.2	30
152	Network slicing: a next generation 5G perspective. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2021, 2021, .	2.4	30
153	Machine learning empowered COVID-19 patient monitoring using non-contact sensing: An extensive review. <i>Journal of Pharmaceutical Analysis</i> , 2022, 12, 193-204.	5.3	30
154	Formal verification and validation of a movement control actor relocation algorithm for safety-critical applications. <i>Wireless Networks</i> , 2016, 22, 247-265.	3.0	29
155	Managing big RDF data in clouds: Challenges, opportunities, and solutions. <i>Sustainable Cities and Society</i> , 2018, 39, 375-386.	10.4	29
156	Randomized nonlinear one-class support vector machines with bounded loss function to detect of outliers for large scale IoT data. <i>Future Generation Computer Systems</i> , 2020, 112, 715-723.	7.5	29
157	UAV-enabled data acquisition scheme with directional wireless energy transfer for Internet of Things. <i>Computer Communications</i> , 2020, 155, 184-196.	5.1	29
158	Performance analysis of machine learning classifiers for non-technical loss detection. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2023, 14, 15327-15342.	4.9	29
159	Partitioning Detection and Connectivity Restoration Algorithm for Wireless Sensor and Actor Networks. , 2010, , .		28
160	On energy efficiency in underwater wireless sensor networks with cooperative routing. <i>Annales Des Telecommunications/Annals of Telecommunications</i> , 2017, 72, 173-188.	2.5	28
161	Novel QoS-Aware Proactive Spectrum Access Techniques for Cognitive Radio Using Machine Learning. <i>IEEE Access</i> , 2019, 7, 70811-70827.	4.2	28
162	On the Viable Area of Wireless Practical Byzantine Fault Tolerance (PBFT) Blockchain Networks. , 2019, , .		28

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163	Modeling mobility and psychological stress based human postural changes in wireless body area networks. <i>Computers in Human Behavior</i> , 2015, 51, 1042-1053.	8.5	27
164	A zero-watermarking algorithm for privacy protection in biomedical signals. <i>Future Generation Computer Systems</i> , 2018, 82, 290-303.	7.5	27
165	A novel countermeasure technique for reactive jamming attack in internet of things. <i>Multimedia Tools and Applications</i> , 2019, 78, 29899-29920.	3.9	27
166	CNN and GRU based Deep Neural Network for Electricity Theft Detection to Secure Smart Grid. , 2020, , .		27
167	Establishing effective communications in disaster affected areas and artificial intelligence based detection using social media platform. <i>Future Generation Computer Systems</i> , 2020, 112, 1057-1069.	7.5	27
168	Low-Dimensional Subspace Estimation of Continuous-Doppler-Spread Channel in OTFS Systems. <i>IEEE Transactions on Communications</i> , 2021, 69, 4717-4731.	7.8	27
169	A smart healthcare framework for detection and monitoring of COVID-19 using IoT and cloud computing. <i>Neural Computing and Applications</i> , 2023, 35, 13775-13789.	5.6	27
170	Implementing Partitioning Detection and Connectivity Restoration in WSN Using VDM-SL. , 2015, , .		26
171	BEC: A novel routing protocol for balanced energy consumption in Wireless Body Area Networks. , 2015, , .		26
172	Security Risk Assessment for 5G Networks: National Perspective. <i>IEEE Wireless Communications</i> , 2020, 27, 16-22.	9.0	26
173	Analysis of Detection Features for Wormhole Attacks in MANETs. <i>Procedia Computer Science</i> , 2015, 56, 384-390.	2.0	25
174	Process state synchronization-based application execution management for mobile edge/cloud computing. <i>Future Generation Computer Systems</i> , 2019, 91, 579-589.	7.5	25
175	Big data management in participatory sensing: Issues, trends and future directions. <i>Future Generation Computer Systems</i> , 2020, 107, 942-955.	7.5	25
176	Model Compression for IoT Applications in Industry 4.0 via Multiscale Knowledge Transfer. <i>IEEE Transactions on Industrial Informatics</i> , 2020, 16, 6013-6022.	11.3	25
177	Formal Specification and Validation of a Localized Algorithm for Segregation of Critical/Noncritical Nodes in MAHSNs. <i>International Journal of Distributed Sensor Networks</i> , 2014, 10, 140973.	2.2	25
178	Channel Clustering and QoS Level Identification Scheme for Multi-Channel Cognitive Radio Networks. <i>IEEE Communications Magazine</i> , 2018, 56, 164-171.	6.1	24
179	Non-Invasive Hydration Level Estimation in Human Body Using Galvanic Skin Response. <i>IEEE Sensors Journal</i> , 2020, 20, 4891-4900.	4.7	24
180	Grand Challenges in IoT and Sensor Networks. <i>Frontiers in Communications and Networks</i> , 2020, 1, .	3.0	24

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181	Designing a Wind Energy Harvester for Connected Vehicles in Green Cities. <i>Energies</i> , 2021, 14, 5408.	3.1	24
182	Intelligent energy prediction techniques for fog computing networks. <i>Applied Soft Computing Journal</i> , 2021, 111, 107682.	7.2	24
183	Bio-Inspired Network Security for 5G-Enabled IoT Applications. <i>IEEE Access</i> , 2020, 8, 229152-229160.	4.2	24
184	An Efficient Network Intrusion Detection and Classification System. <i>Mathematics</i> , 2022, 10, 530.	2.2	24
185	Internet of Vehicles for E-Health Applications: A Potential Game for Optimal Network Capacity. <i>IEEE Systems Journal</i> , 2017, 11, 1888-1896.	4.6	23
186	A Multivariant Stream Analysis Approach to Detect and Mitigate DDoS Attacks in Vehicular Ad Hoc Networks. <i>Wireless Communications and Mobile Computing</i> , 2018, 2018, 1-13.	1.2	23
187	WiFreeze: Multiresolution Scalograms for Freezing of Gait Detection in Parkinson's Leveraging 5G Spectrum with Deep Learning. <i>Electronics (Switzerland)</i> , 2019, 8, 1433.	3.1	23
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