Mubashir Husain Rehmani

List of Publications by Year
in descending order

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126 papers	7,827 citations	71102 41 h-index	53230 85 g-index
154 all docs	154 docs citations	154 times ranked	8079 citing authors

#	Article	IF	Citations
1	Applications of wireless sensor networks for urban areas: A survey. Journal of Network and Computer Applications, 2016, 60, 192-219.	9.1	624
2	Applications of Blockchains in the Internet of Things: A Comprehensive Survey. IEEE Communications Surveys and Tutorials, 2019, 21, 1676-1717.	39.4	504
3	Privacy preservation in blockchain based IoT systems: Integration issues, prospects, challenges, and future research directions. Future Generation Computer Systems, 2019, 97, 512-529.	7.5	370
4	Cognitive-Radio-Based Internet of Things: Applications, Architectures, Spectrum Related Functionalities, and Future Research Directions. IEEE Wireless Communications, 2017, 24, 17-25.	9.0	360
5	Differential Privacy Techniques for Cyber Physical Systems: A Survey. IEEE Communications Surveys and Tutorials, 2020, 22, 746-789.	39.4	335
6	Internet of Things-Aided Smart Grid: Technologies, Architectures, Applications, Prototypes, and Future Research Directions. IEEE Access, 2019, 7, 62962-63003.	4.2	316
7	Cognitive Radio for Smart Grids: Survey of Architectures, Spectrum Sensing Mechanisms, and Networking Protocols. IEEE Communications Surveys and Tutorials, 2016, 18, 860-898.	39.4	285
8	Primary radio user activity models for cognitive radio networks: A survey. Journal of Network and Computer Applications, 2014, 43, 1-16.	9.1	282
9	Energy replenishment using renewable and traditional energy resources for sustainable wireless sensor networks: A review. Renewable and Sustainable Energy Reviews, 2015, 45, 769-784.	16.4	260
10	Integrating Renewable Energy Resources Into the Smart Grid: Recent Developments in Information and Communication Technologies. IEEE Transactions on Industrial Informatics, 2018, 14, 2814-2825.	11.3	255
11	A Survey on Radio Resource Allocation in Cognitive Radio Sensor Networks. IEEE Communications Surveys and Tutorials, 2015, 17, 888-917.	39.4	224
12	SURF: A distributed channel selection strategy for data dissemination in multi-hop cognitive radio networks. Computer Communications, 2013, 36, 1172-1185.	5.1	203
13	Integration of Cognitive Radio Technology with unmanned aerial vehicles: Issues, opportunities, and future research challenges. Journal of Network and Computer Applications, 2015, 50, 15-31.	9.1	174
14	Recent Advances in Information-Centric Networking-Based Internet of Things (ICN-IoT). IEEE Internet of Things Journal, 2019, 6, 2128-2158.	8.7	162
15	Full-Duplex Communication in Cognitive Radio Networks: A Survey. IEEE Communications Surveys and Tutorials, 2017, 19, 2158-2191.	39.4	159
16	Wireless Multimedia Cognitive Radio Networks: A Comprehensive Survey. IEEE Communications Surveys and Tutorials, 2018, 20, 1056-1103.	39.4	141
17	Software Defined Networks-Based Smart Grid Communication: A Comprehensive Survey. IEEE Communications Surveys and Tutorials, 2019, 21, 2637-2670.	39.4	141
18	A review of EVs charging: From the perspective of energy optimization, optimization approaches, and charging techniques. Transportation Research, Part D: Transport and Environment, 2018, 62, 386-417.	6.8	125

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19	A Survey of Channel Bonding for Wireless Networks and Guidelines of Channel Bonding for Futuristic Cognitive Radio Sensor Networks. IEEE Communications Surveys and Tutorials, 2016, 18, 924-948.	39.4	119
20	White space: Definitional perspectives and their role in exploiting spectrum opportunities. Telecommunications Policy, 2016, 40, 319-331.	5.3	109
21	When Cognitive Radio meets the Internet of Things?. , 2016, , .		82
22	MAC Protocols for Terahertz Communication: A Comprehensive Survey. IEEE Communications Surveys and Tutorials, 2020, 22, 2236-2282.	39.4	75
23	Energy Harvesting for Self-Sustainable Wireless Body Area Networks. IT Professional, 2017, 19, 32-40.	1.5	72
24	An efficient trajectory design for mobile sink in a wireless sensor network. Computers and Electrical Engineering, 2014, 40, 2089-2100.	4.8	71
25	Amateur Drone Monitoring: State-of-the-Art Architectures, Key Enabling Technologies, and Future Research Directions. IEEE Wireless Communications, 2018, 25, 150-159.	9.0	71
26	Security, Privacy and Trust for Smart Mobile- Internet of Things (M-IoT): A Survey. IEEE Access, 2020, 8, 167123-167163.	4.2	70
27	Network Coding in Cognitive Radio Networks: A Comprehensive Survey. IEEE Communications Surveys and Tutorials, 2017, 19, 1945-1973.	39.4	69
28	5G Mobile Services and Scenarios: Challenges and Solutions. Sustainability, 2018, 10, 3626.	3.2	65
29	IEEE Access Special Section Editorial: Body Area Networks For Interdisciplinary Research. IEEE Access, 2016, 4, 2989-2992.	4.2	64
30	DEAL: Differentially Private Auction for Blockchain based Microgrids Energy Trading. IEEE Transactions on Services Computing, 2019, , 1-1.	4.6	63
31	A survey on network coding: From traditional wireless networks to emerging cognitive radio networks. Journal of Network and Computer Applications, 2014, 46, 166-181.	9.1	59
32	Effective Capacity in Wireless Networks: A Comprehensive Survey. IEEE Communications Surveys and Tutorials, 2019, 21, 3007-3038.	39.4	58
33	Differential privacy in blockchain technology: A futuristic approach. Journal of Parallel and Distributed Computing, 2020, 145, 50-74.	4.1	58
34	Privacy Preservation in Big Data From the Communication Perspectiveâ€"A Survey. IEEE Communications Surveys and Tutorials, 2019, 21, 753-778.	39.4	57
35	Clustering and Reinforcement-Learning-Based Routing for Cognitive Radio Networks. IEEE Wireless Communications, 2017, 24, 146-151.	9.0	54
36	Exploitation of social IoT for recommendation services. , 2016, , .		49

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37	A comprehensive survey of network coding in vehicular ad-hoc networks. Wireless Networks, 2017, 23, 2395-2414.	3.0	47
38	Differential privacy for renewable energy resources based smart metering. Journal of Parallel and Distributed Computing, 2019, 131, 69-80.	4.1	46
39	Mobility-aware medium access control protocols for wireless sensor networks: A survey. Journal of Network and Computer Applications, 2018, 104, 21-37.	9.1	44
40	A comprehensive survey on multichannel routing in wireless sensor networks. Journal of Network and Computer Applications, 2017, 95, 1-25.	9.1	43
41	Routing and channel selection from cognitive radio networkâ€™s perspective: A survey. Computers and Electrical Engineering, 2015, 42, 117-134.	4.8	42
42	IEEE Access Special Section Editorial Smart Grids: a Hub of Interdisciplinary Research. IEEE Access, 2015, 3, 3114-3118.	4.2	41
43	SMART: A SpectruM-Aware ClusteR-based rouTing scheme for distributed cognitive radio networks. Computer Networks, 2015, 91, 196-224.	5.1	40
44	Requirements, Design Challenges, and Review of Routing and MAC Protocols for CR-Based Smart Grid Systems. , 2017, 55, 206-215.		40
45	Enhancing secure routing in Mobile Ad Hoc Networks using a Dynamic Bayesian Signalling Game model. Computers and Electrical Engineering, 2015, 41, 301-313.	4.8	38
46	Network Simulator NS-2. Advances in Information Quality and Management, 2014, , 6249-6258.	0.2	37
47	IEEE <italic>Access</italic> Special Section Editorial: Optimization for Emerging Wireless Networks: IoT, 5G, and Smart Grid Communication Networks. IEEE Access, 2017, 5, 2096-2100.	4.2	36
48	Amateur Drone Surveillance: Applications, Architectures, Enabling Technologies, and Public Safety Issues: Part 2. IEEE Communications Magazine, 2018, 56, 66-67.	6.1	34
49	A survey of feature extraction and fusion of deep learning for detection of abnormalities in video endoscopy of gastrointestinal-tract. Artificial Intelligence Review, 2020, 53, 2635-2707.	15.7	34
50	IEEE Access Special Section Editorial: The Plethora of Research in Internet of Things (IoT). IEEE Access, 2016, 4, 9575-9579.	4.2	33
51	Computer assisted gastric abnormalities detection using hybrid texture descriptors for chromoendoscopy images. Computer Methods and Programs in Biomedicine, 2018, 157, 39-47.	4.7	33
52	A distributed fuzzy logic-based root selection algorithm for wireless sensor networks. Computers and Electrical Engineering, 2015, 41, 216-225.	4.8	27
53	Computer-based classification of chromoendoscopy images using homogeneous texture descriptors. Computers in Biology and Medicine, 2017, 88, 84-92.	7.0	27
54	Neighbor discovery in traditional wireless networks and cognitive radio networks: Basics, taxonomy, challenges and future research directions. Journal of Network and Computer Applications, 2015, 52, 173-190.	9.1	26

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55	Fairness in Cognitive Radio Networks: Models, measurement methods, applications, and future research directions. Journal of Network and Computer Applications, 2016, 73, 12-26.	9.1	25
56	A Survey of Decision-Theoretic Models for Cognitive Internet of Things (CIoT). IEEE Access, 2018, 6, 22489-22512.	4.2	25
57	The Green Internet of Things (G-IoT). Wireless Communications and Mobile Computing, 2019, 2019, 1-2.	1.2	23
58	The effects of an Adaptive and Distributed Transmission Power Control on the performance of energy harvesting sensor networks. Computer Networks, 2018, 137, 69-82.	5.1	22
59	PRACB: A Novel Channel Bonding Algorithm for Cognitive Radio Sensor Networks. IEEE Access, 2016, 4, 6950-6963.	4.2	21
60	Activity pattern impact of primary radio nodes on channel selection strategies. , 2011, , .		20
61	Channel bonding in cognitive radio wireless sensor networks. , 2012, , .		20
62	NS-2 based simulation framework for cognitive radio sensor networks. Wireless Networks, 2018, 24, 1543-1559.	3.0	19
63	Broadcasting strategies for cognitive radio networks: Taxonomy, issues, and open challenges. Computers and Electrical Engineering, 2016, 52, 349-361.	4.8	18
64	Guest Editorial Special Section on Smart Grid and Renewable Energy Resources: Information and Communication Technologies With Industry Perspective. IEEE Transactions on Industrial Informatics, 2017, 13, 3119-3123.	11.3	18
65	Achieving Resilience in SDN-Based Smart Grid: A Multi-Armed Bandit Approach. , 2018, , .		18
66	Intelligent antenna selection decision in IEEE 802.15.4 wireless sensor networks: An experimental analysis. Computers and Electrical Engineering, 2014, 40, 443-455.	4.8	17
67	Throwboxes in delay tolerant networks: A survey of placement strategies, buffering capacity, and mobility models. Journal of Network and Computer Applications, 2017, 91, 89-103.	9.1	17
68	A cognitive radio based Internet access framework for disaster response network deployment. , 2010, , .		13
69	Amateur Drone Surveillance: Applications, Architectures, Enabling Technologies, and Public Safety Issues: Part 1. IEEE Communications Magazine, 2018, 56, 14-15.	6.1	13
70	Optimizing Blockchain Based Smart Grid Auctions: A Green Revolution. IEEE Transactions on Green Communications and Networking, 2022, 6, 462-471.	5.5	13
71	Neighborsâ€™ interference situation-aware power control scheme for dense 5G mobile communication system. Telecommunication Systems, 2018, 67, 443-450.	2.5	12
72	IEEE Access Special Section Editorial: The New Era of Smart Cities: Sensors, Communication Technologies, and Applications. IEEE Access, 2017, 5, 27836-27840.	4.2	11

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73	Color-based template selection for detection of gastric abnormalities in video endoscopy. Biomedical Signal Processing and Control, 2020, 56, 101668.	5.7	11
74	Software-Defined Networking (SDN) and Network Function Virtualization (NFV) for a Hyperconnected World: Challenges, Applications, and Major Advancements. Journal of Network and Systems Management, 2020, 28, 433-435.	4.9	11
75	Parking recommender system privacy preservation through anonymization and differential privacy. Engineering Reports, 2021, 3, e12297.	1.7	11
76	Improving Data Dissemination in Multi-hop Cognitive Radio Ad-Hoc Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2012, , 117-130.	0.3	11
77	Integration of Cognitive Radio Sensor Networks and Cloud Computing. Advances in Wireless Technologies and Telecommunication Book Series, 2014, , 288-312.	0.4	11
78	ZGLS: a novel flat quorum-based and reliable location management protocol for VANETs. Wireless Networks, 2018, 24, 1885-1903.	3.0	10
79	Towards intelligent antenna selection in IEEE 802.15.4 wireless sensor networks. , 2012, , .		9
80	Considerations for packet delivery reliability over polling-based wireless networks in smart grids. Computers and Electrical Engineering, 2015, 41, 368-382.	4.8	9
81	Towards Low Cost Prototyping of Mobile Opportunistic Disconnection Tolerant Networks and Systems. IEEE Access, 2016, 4, 5309-5321.	4.2	9
82	DQR: Deep Q-Routing in Software Defined Networks. , 2020, , .		9
83	Cyber Security Framework for Vehicular Network Based on a Hierarchical Game. IEEE Transactions on Emerging Topics in Computing, 2021, 9, 429-440.	4.6	9
84	Resource Management in Mobile Sink Based Wireless Sensor Networks through Cloud Computing. Modeling and Optimization in Science and Technologies, 2014, , 439-459.	0.7	9
85	IEEE Access Special Section Editorial: Health Informatics for the Developing World. IEEE Access, 2017, 5, 27818-27823.	4.2	8
86	Differentially Private Dynamic Pricing for Efficient Demand Response in Smart Grid. , 2020, , .		7
87	A cooperative mobile throwbox-based routing protocol for social-aware delay tolerant networks. Wireless Networks, 2020, 26, 3997-4009.	3.0	6
88	Blockchain Systems and Communication Networks: From Concepts to Implementation. Textbooks in Telecommunication Engineering, 2021, , .	0.2	6
89	Differential Privacy in Cognitive Radio Networks: A Comprehensive Survey. Cognitive Computation, 2022, 14, 475-510.	5.2	6
90	IEEE Access Special Section Editorial: Mission Critical Public-Safety Communications: Architectures, Enabling Technologies, and Future Applications. IEEE Access, 2018, 6, 79258-79262.	4.2	5

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91	Remaining idle time aware intelligent channel bonding schemes for cognitive radio sensor networks. Wireless Networks, 2019, 25, 4523-4539.	3.0	5
92	Channel assortment strategy for reliable communication in multi-hop cognitive radio networks. , 2010, , .		4
93	Performance evaluation of broadcasting strategies in cognitive radio networks. Wireless Networks, 2019, 25, 999-1016.	3.0	4
94	AI-Driven Cybersecurity Threats to Future Networks [From the Guest Editors]. IEEE Vehicular Technology Magazine, 2020, 15, 5-6.	3.4	4
95	DPNCT: A Differential Private Noise Cancellation Scheme for Load Monitoring and Billing for Smart Meters. , 2021, , .		4
96	Cognitive Radio Spectrum Sensing and Prediction Using Deep Reinforcement Learning. , 2021, , .		4
97	IEEE Access Special Section Editorial: Flying Ad Hoc Networks: Challenges, Potentials, Future Applications, and Way Forward. IEEE Access, 2021, 9, 74189-74193.	4.2	4
98	A shallow extraction of texture features for classification of abnormal video endoscopy frames. Biomedical Signal Processing and Control, 2022, 77, 103733.	5.7	4
99	On the feasibility of making intelligent antenna selection decision in IEEE 802.15.4 wireless sensor networks. , 2013, , .		3
100	Pilot-Based Time Domain SNR Estimation for Broadcasting OFDM Systems. Journal of Computer Networks and Communications, 2018, 2018, 1-8.	1.6	3
101	Dataâ€driven intelligence in wireless networks: Issues, challenges, and solution. Transactions on Emerging Telecommunications Technologies, 2019, 30, e3722.	3.9	3
102	Data broadcasting strategies for cognitive radio based AMI networks. Wireless Networks, 2020, 26, 145-164.	3.0	3
103	Differential Privacy-Based Permissioned Blockchain for Private Data Sharing in Industrial IoT. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2022, , 77-91.	0.3	3
104	Joint channel selection and cluster-based routing scheme based on reinforcement learning for cognitive radio networks. , 2015, , .		2
105	Editorial to a Special Section on Information Fusion in Internet of Things. Information Systems, 2017, 69, 194.	3.6	2
106	IEEE <italic>Access</italic> Special Section Editorial: Resource Management in Vehicular Adhoc Networks: Energy Management, Communication Protocol and Future Applications. IEEE Access, 2017, 5, 7839-7842.	4.2	2
107	Threats to critical infrastructure from AI and human intelligence. Journal of Supercomputing, 2018, 74, 4865-4866.	3.6	2
108	Routing through Efficient Channel Assignment in Cognitive Radio Networks. Advances in Wireless Technologies and Telecommunication Book Series, 2015, , 275-299.	0.4	2

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109	Cognitive Radio Sensor Networks. , 2015, , 6152-6159.		2
110	Transparency-privacy Trade-off in Blockchain-Based Supply Chain in Industrial Internet of Things. , 2021, , .		2
111	Role of Wireless Sensor Networks in Emerging Communication Technologies: A Review. , 2016, , 3-26.		1
112	IEEE ACCESS Special Section Editorial: Energy Harvesting and Scavenging: Technologies, Algorithms, and Communication Protocols. IEEE Access, 2018, 6, 13461-13465.	4.2	1
113	Pricing strategies and categories for LTE networks. Telecommunication Systems, 2018, 68, 183-192.	2.5	1
114	SDN, NFV, and Mobile Edge Computing with QoE Support for 5G. Transactions on Emerging Telecommunications Technologies, 2018, 29, e3536.	3.9	1
115	A Network Coding Approach to In-Band Control Traffic Sharing in Software Defined Networks. , 2018, , .		1
116	Network Coding-Based Broadcasting Schemes for Cognitive Radio Networks. EAI/Springer Innovations in Communication and Computing, 2019, , 65-114.	1.1	1
117	Control Over Skies: Survivability, Coverage, and Mobility Laws for Hierarchical Aerial Base Stations. IEEE Pervasive Computing, 2021, 20, 51-59.	1.3	1
118	Data Dissemination and Channel Selection in Cognitive Radio Networks. Advances in Wireless Technologies and Telecommunication Book Series, 2013, , 30-49.	0.4	1
119	A Smart Meter Firmware Update Strategy Through Network Coding for AMI Network. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2019, , 68-77.	0.3	1
120	IEEE Access Special Section Editorial: Software-Defined Networks for Energy Internet and Smart Grid Communication. IEEE Access, 2021, 9, 69139-69142.	4.2	0
121	Channel Bonding in Cognitive Radio Sensor Networks. Advances in Wireless Technologies and Telecommunication Book Series, 2014, , 99-126.	0.4	0
122	Integration of Cognitive Radio Sensor Networks and Cloud Computing. , 2015, , 1025-1048.		0
123	Cognitive Relay Networks: A Comprehensive Survey. EAI Endorsed Transactions on Wireless Spectrum, 2015, 1, e5.	0.5	0
124	A Review on Renewable Energy Sources, Battery Replenishment Strategies, and Application-Specific Energy Challenges of Wireless Sensor Networks. , 2016, , 27-56.		0
125	A Deep Reinforcement Learning Approach to Fair Distributed Dynamic Spectrum Access. , 2020, , .		0
126	Differential privacy for edge computing-based smart grid operating over blockchain. , 2020, , 245-294.		0