Fazirulhisyam Hashim

List of Publications by Year
in descending order

82 papers	955 citations	623734 14 h-index	552781 26 g-index
84 all docs	84 docs citations	84 times ranked	902 citing authors

#	Article	IF	Citations
1	6G Wireless Communications Networks: A Comprehensive Survey. IEEE Access, 2021, 9, 148191-148243.	4.2	157
2	Detecting sybil attacks in clustered wireless sensor networks based on energy trust system (ETS). Computer Communications, 2017, 110, 75-82.	5.1	51
3	Totally opportunistic routing algorithm (TORA) for underwater wireless sensor network. PLoS ONE, 2018, 13, e0197087.	2.5	42
4	Analysis on Target Detection and Classification in LTE Based Passive Forward Scattering Radar. Sensors, 2016, 16, 1607.	3.8	38
5	A Survey and Taxonomy on Medium Access Control Strategies for Cooperative Communication in Wireless Networks: Research Issues and Challenges. IEEE Communications Surveys and Tutorials, 2016, 18, 2493-2521.	39.4	38
6	A New Super Wideband Fractal Monopole-Dielectric Resonator Antenna. IEEE Antennas and Wireless Propagation Letters, 2013, 12, 1014-1016.	4.0	36
7	An efficient authentication and key agreement protocol for 4G (LTE) networks. , 2014, , .		36
8	Channel Coding Scheme for 5G Mobile Communication System for Short Length Message Transmission. Wireless Personal Communications, 2019, 106, 377-400.	2.7	29
9	An effective approach for managing power consumption in cloud computing infrastructure. Journal of Computational Science, 2017, 21, 349-360.	2.9	22
10	Protection of smart substation based on WLAN complies with IEC 61850 using traveling wave analysis. Electric Power Systems Research, 2016, 140, 20-26.	3.6	21
11	Fair Energy-Efficient Resource Allocation for Downlink NOMA Heterogeneous Networks. IEEE Access, 2020, 8, 200129-200145.	4.2	21
12	SELAMAT: A New Secure and Lightweight Multi-Factor Authentication Scheme for Cross-Platform Industrial IoT Systems. Sensors, 2021, 21, 1428.	3.8	20
13	A Multi-Objective Routing Mechanism for Energy Management Optimization in SDN Multi-Control Architecture. IEEE Access, 2022, 10, 20312-20327.	4.2	19
14	Biologically Inspired Anomaly Detection and Security Control Frameworks for Complex Heterogeneous Networks. IEEE Transactions on Network and Service Management, 2010, 7, 268-281.	4.9	18
15	Novel Resource Allocation Techniques for Downlink Non-Orthogonal Multiple Access Systems. Applied Sciences (Switzerland), 2020, 10, 5892.	2.5	17
16	Robust 3D Indoor Positioning System Based on Radio Map Using Bayesian Network. , 2019, , .		16
17	Characterizing energy efficiency for heterogeneous cellular networks. , 2012, , .		15
18	Node Replication Attacks in Mobile Wireless Sensor Network: A Survey. International Journal of Distributed Sensor Networks, 2014, 10, 402541.	2.2	15

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19	Hybrid Multi-Level Detection and Mitigation of Clone Attacks in Mobile Wireless Sensor Network (MWSN). Sensors, 2020, 20, 2283.	3.8	15
20	Lightweight decentralized multicast–unicast key management method in wireless IPv6 networks. Journal of Network and Computer Applications, 2014, 42, 59-69.	9.1	14
21	An overview of spectrum sensing techniques for cognitive LTE and LTE-A radio systems. Telecommunication Systems, 2017, 65, 215-228.	2.5	14
22	Normalized Advancement Based Totally Opportunistic Routing Algorithm With Void Detection and Avoiding Mechanism for Underwater Wireless Sensor Network. IEEE Access, 2020, 8, 67484-67500.	4.2	14
23	Heuristic Resource Allocation Algorithm for Controller Placement in Multi-Control 5G Based on SDN/NFV Architecture. IEEE Access, 2021, 9, 2602-2617.	4.2	14
24	Design and evaluation of distributed and dynamic mobility management approach based on PMIPv6 and MIH protocols. Wireless Networks, 2015, 21, 2747-2763.	3.0	13
25	Cross-SN: A Lightweight Authentication Scheme for a Multi-Server Platform Using IoT-Based Wireless Medical Sensor Network. Electronics (Switzerland), 2021, 10, 790.	3.1	12
26	Network Calculus-Based Latency for Time-Triggered Traffic under Flexible Window-Overlapping Scheduling (FWOS) in a Time-Sensitive Network (TSN). Applied Sciences (Switzerland), 2021, 11, 3896.	2.5	12
27	Survey of Channel Assignment Algorithms for Multi-radio Multi-channel Wireless Mesh Networks. IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India), 2015, 32, 164-182.	3.2	11
28	A three-dimensional pattern recognition localization system based on a Bayesian graphical model. International Journal of Distributed Sensor Networks, 2020, 16, 155014771988489.	2.2	11
29	Malware analysis performance enhancement using cloud computing. Journal of Computer Virology and Hacking Techniques, 2014, 10, 1-10.	2.2	10
30	Review of Adaptive Cell Selection Techniques in LTE-Advanced Heterogeneous Networks. Journal of Computer Networks and Communications, 2016, 2016, 1-12.	1.6	10
31	LTE-Based Passive Bistatic Radar System for Detection of Ground-Moving Targets. ETRI Journal, 2016, 38, 302-313.	2.0	10
32	A new tunnelled EAP based authentication method for WiMAX networks. , 2013, , .		8
33	Reliable and energy efficient routing protocol (REEP) for underwater wireless sensor networks (UWSNs). , 2015, , .		8
34	An architecture of 5G based on SDN NV wireless network. Indonesian Journal of Electrical Engineering and Computer Science, 2019, 14, 725.	0.8	8
35	Securing the next generation mobile network. Security and Communication Networks, 2008, 1, 25-43.	1.5	7
36	Multicast-Unicast Data Delivery Method in Wireless IPv6 Networks. Journal of Network and Systems Management, 2014, 22, 583-608.	4.9	7

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37	Energy trust system for detecting sybil attack in clustered wireless sensor networks. , 2015, , .		7
38	Hybrid channel gain prioritized access‐aware cell association with interference mitigation in LTE‐Advanced HetNets. International Journal of Communication Systems, 2016, 29, 2650-2668.	2.5	7
39	QoE-Driven Cross-Layer Downlink Scheduling for Heterogeneous Traffics Over 4G Networks. Wireless Personal Communications, 2017, 96, 4755-4780.	2.7	7
40	Design and simulation analysis of network-based fully distributed mobility management in flattened network architecture. Telecommunication Systems, 2017, 65, 253-267.	2.5	7
41	Probability-based opportunity dynamic adaptation (PODA) of contention window for home M2M networks. Journal of Network and Computer Applications, 2019, 144, 1-12.	9.1	7
42	Reliable Key Management and Data Delivery Method in Multicast Over Wireless IPv6 Networks. Wireless Personal Communications, 2013, 73, 967-991.	2.7	5
43	6LoWPAN Route-Over with End-to-End Fragmentation and Reassembly Using Cross-Layer Adaptive Backoff Exponent. Wireless Personal Communications, 2018, 98, 1029-1053.	2.7	5
44	A Review of EMF Radiation for 5G Mobile Communication Systems. , 2021, , .		5
45	The effect of fragmentation and header compression on IP-based sensor networks (6LoWPAN). , 2011, , .		4
46	A review of cloud security based on cryptographic mechanisms. , 2014, , .		4
47	The adaptive Cognitive Radio Sensor Network: A perspective towards the feasibility. , 2015, , .		4
48	A new cooperative spectrum sensing scheme based on discrete cosine transform. , 2016, , .		4
49	Efficient beamforming and spectral efficiency maximization in a joint transmission system using an adaptive particle swarm optimization algorithm. Applied Soft Computing Journal, 2016, 49, 759-769.	7.2	4
50	Feasibility of Green Network Deployment for Heterogeneous Networks. Wireless Personal Communications, 2017, 94, 1443-1476.	2.7	4
51	Pseudorandom sequence contention algorithm for IEEE 802.11ah based internet of things network. PLoS ONE, 2020, 15, e0237386.	2.5	4
52	Critical Offset Optimizations for Overlapping-Based Time-Triggered Windows in Time-Sensitive Network. IEEE Access, 2021, 9, 130484-130501.	4.2	4
53	Pliable Cognitive MAC for Heterogeneous Adaptive Cognitive Radio Sensor Networks. PLoS ONE, 2016, 11, e0156880.	2.5	4
54	Robust Multi-Gateway Authentication Scheme for Agriculture Wireless Sensor Network in Society 5.0 Smart Communities. Agriculture (Switzerland), 2021, 11, 1020.	3.1	4

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55	Worst-Case Latency Analysis for AVB Traffic Under Overlapping-Based Time-Triggered Windows in Time-Sensitive Networks. IEEE Access, 2022, 10, 43187-43208.	4.2	4
56	An intrusion tolerant system for improving availability in smart grid control centers. , 2012, , .		3
57	MWSN Modeling Using OMNET++ Simulator. , 2014, , .		3
58	Performance analysis of Coordinated MultiPoint (CoMP) in long term evolution-advanced. , 2014, , .		3
59	An Adaptive Rate Allocation System to Mitigate Starvation Dilemma in Multi-Radio Multi-Hop Wireless Mesh Networks. Wireless Personal Communications, 2015, 84, 2881-2912.	2.7	3
60	On the authentication and reâ€authentication protocols in LTEâ€WLAN interworking architecture. Transactions on Emerging Telecommunications Technologies, 2017, 28, e3031.	3.9	3
61	An Analysis of Periodogram Based on a Discrete Cosine Transform for Spectrum Sensing. Wireless Personal Communications, 2018, 101, 1261-1279.	2.7	3
62	A New Hybrid Online and Offline Multi-Factor Cross-Domain Authentication Method for IoT Applications in the Automotive Industry. Energies, 2021, 14, 7437.	3.1	3
63	A Modified Genetic Algorithm for Controller Placement Problem in SDN Distributed Network. , 2021, , .		3
64	A lightweight and secure online/offline cross-domain authentication scheme for VANET systems in Industrial IoT. PeerJ Computer Science, 2021, 7, e714.	4.5	3
65	Multi-hop wireless network modelling using OMNET++ simulator. , 2015, , .		2
66	A performance analysis of a new periodogram for spectrum sensing. , 2016, , .		2
67	Detection and mitigation of ARP storm attacks using software defined networks. , 2017, , .		2
68	Impact of Packet Size in Adaptive Cognitive Radio Sensor Network. Wireless Communications and Mobile Computing, 2018, 2018, 1-9.	1.2	2
69	Low Complexity Iterative-QR (IQR) Precoder Design Based on Structure Blocks for Massive MIMO System. Wireless Personal Communications, 2018, 102, 19-30.	2.7	2
70	Collaborative Adaptive Filtering Approach for the Identification of Complex-Valued Improper Signals. Circuits, Systems, and Signal Processing, 2019, 38, 3860-3879.	2.0	2
71	Temporal Changes Analysis of Soil Properties Associated with Ganoderma boninense Pat. Infection in Oil Palm Seedlings in a Controlled Environment. Agronomy, 2021, 11, 2279.	3.0	2
72	Secure group communication scheme in wireless IPv6 networks: An experimental test-bed. , 2012, , .		1

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73	Modeling of efficient key management method in multicast networks. , 2012, , .		1
74	Distributed power control and beamforming for cognitive two-way relay networks using a game-theoretic approach. , 2016, , .		1
75	Clustering Transmission Opportunity Length (CTOL) Model over Cognitive Radio Network. Sensors, 2018, 18, 4351.	3.8	1
76	An energy saving scheme for key management protocol in IEEE802.16e. , 2013, , .		0
77	Backhaul and performance optimality of joint processing schemes over the cluster area. , 2014, , .		0
78	Distributed channel assignment based on congestion information in wireless mesh network. , 2014, , .		0
79	On spectral efficiency maximization in a partial joint processing system using a multi-start particle swarm optimization algorithm. , 2015, , .		0
80	Temporal evaluation of secondary user interference to primary user in cognitive radio networks. , 2015, , .		0
81	Internet utility evaluation of a multi-start particle swarm optimization beamformer in a partial joint processing cellular network. , 2016, , .		0
82	Medium access prioritizing in the heterogeneous low-rate wireless PANs. , 2016, , .		0