

Dushantha Nalin K Jayakody

List of Publications by Citations

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131
papers

1,806
citations

19
h-index

38
g-index

159
ext. papers

2,522
ext. citations

4.6
avg, IF

5.85
L-index

#	Paper	IF	Citations
131	Simultaneous Wireless Information and Power Transfer (SWIPT): Recent Advances and Future Challenges. <i>IEEE Communications Surveys and Tutorials</i> , 2018 , 20, 264-302	37.1	359
130	. <i>IEEE Communications Surveys and Tutorials</i> , 2020 , 22, 196-248	37.1	162
129	A Blockchain-Based Framework for Lightweight Data Sharing and Energy Trading in V2G Network. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 5799-5812	6.8	83
128	. <i>IEEE Transactions on Vehicular Technology</i> , 2019 , 68, 8421-8434	6.8	68
127	Secure and Energy-Efficient Handover in Fog Networks Using Blockchain-Based DMM 2018 , 56, 22-31		61
126	. <i>IEEE Transactions on Industrial Informatics</i> , 2019 , 15, 5723-5736	11.9	57
125	Communication and networking technologies for UAVs: A survey. <i>Journal of Network and Computer Applications</i> , 2020 , 168, 102739	7.9	55
124	On-Demand Ultra-Dense Cloud Drone Networks: Opportunities, Challenges and Benefits. <i>IEEE Communications Magazine</i> , 2018 , 56, 85-91	9.1	48
123	Recent Advances and Future Directions on Underwater Wireless Communications. <i>Archives of Computational Methods in Engineering</i> , 2020 , 27, 1379-1412	7.8	42
122	Cooperative trust relaying and privacy preservation via edge-crowdsourcing in social Internet of Things. <i>Future Generation Computer Systems</i> , 2019 , 92, 758-776	7.5	37
121	Self-Energized UAV-Assisted Scheme for Cooperative Wireless Relay Networks. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 578-592	6.8	33
120	Wireless Energy Harvesting Assisted Two-Way Cognitive Relay Networks: Protocol Design and Performance Analysis. <i>IEEE Access</i> , 2017 , 5, 21447-21460	3.5	32
119	Design of Hybrid Wireless and Power Line Sensor Networks With Dual-Interface Relay in IoT. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 239-249	10.7	30
118	On Social-Aware Content Caching for D2D-Enabled Cellular Networks With Matching Theory. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 297-310	10.7	27
117	Contract-Based Small-Cell Caching for Data Disseminations in Ultra-Dense Cellular Networks. <i>IEEE Transactions on Mobile Computing</i> , 2019 , 18, 1042-1053	4.6	24
116	Secure and Efficient Context-Aware Localization of Drones in Urban Scenarios. <i>IEEE Communications Magazine</i> , 2018 , 56, 120-128	9.1	23
115	. <i>IEEE Access</i> , 2017 , 5, 2489-2502	3.5	20

114	Opportunistic-Harvesting: RF Wireless Power Transfer Scheme for Multiple Access Relays System. <i>IEEE Access</i> , 2017 , 5, 16084-16099	3.5	20
113	Analysis of time-switching and power-splitting protocols in wireless-powered cooperative communication system. <i>Physical Communication</i> , 2018 , 31, 141-151	2.2	20
112	On the Incentive Mechanisms for Commercial Edge Caching in 5G Wireless Networks. <i>IEEE Wireless Communications</i> , 2018 , 25, 72-78	13.4	18
111	Novel SWIPT Schemes for 5G Wireless Networks. <i>Sensors</i> , 2019 , 19,	3.8	17
110	Wireless Social Networks: A Survey of Recent Advances, Applications and Challenges. <i>IEEE Access</i> , 2018 , 6, 59589-59617	3.5	17
109	Downlink capacity of OFDMA-CR based 5G femtocell networks. <i>Physical Communication</i> , 2018 , 29, 329-335		17
108	On the positioning likelihood of UAVs in 5G networks. <i>Physical Communication</i> , 2018 , 31, 1-9	2.2	16
107	Efficient Nonorthogonal Multiple Access: Cooperative Use of Distributed Space-Time Block Coding. <i>IEEE Vehicular Technology Magazine</i> , 2018 , 13, 70-77	9.9	15
106	Divide-and-allocate: An uplink successive bandwidth division NOMA system. <i>Transactions on Emerging Telecommunications Technologies</i> , 2018 , 29, e3216	1.9	14
105	On secrecy performance of industrial Internet of things. <i>Internet Technology Letters</i> , 2018 , 1, e32	1.3	13
104	Performance based user-centric dynamic mode switching and mobility management scheme for 5G networks. <i>Journal of Network and Computer Applications</i> , 2018 , 116, 24-34	7.9	13
103	A Super Base Station Architecture for Future Ultra-Dense Cellular Networks: Toward Low Latency and High Energy Efficiency 2018 , 56, 35-41		13
102	Intelligent UAV Deployment for a Disaster-Resilient Wireless Network. <i>Sensors</i> , 2020 , 20,	3.8	12
101	. <i>IEEE Access</i> , 2020 , 8, 49509-49522	3.5	12
100	Age of Information in SWIPT-Enabled Wireless Communication System for 5GB. <i>IEEE Wireless Communications</i> , 2020 , 27, 162-167	13.4	12
99	2019 ,		12
98	Osmotic computing-based service migration and resource scheduling in Mobile Augmented Reality Networks (MARN). <i>Future Generation Computer Systems</i> , 2020 , 102, 723-737	7.5	12
97	Dynamic Virtual Resource Allocation for 5G and Beyond Network Slicing. <i>IEEE Open Journal of Vehicular Technology</i> , 2020 , 1, 215-226	5.3	11

96	Recent Trends in Underwater Visible Light Communication (UVLC) Systems. <i>IEEE Access</i> , 2022 , 1-1	3.5	11
95	A Data Security Enhanced Access Control Mechanism in Mobile Edge Computing. <i>IEEE Access</i> , 2020 , 8, 136119-136130	3.5	11
94	. <i>IEEE Transactions on Vehicular Technology</i> , 2016 , 65, 3033-3041	6.8	11
93	ANN Assisted-IoT Enabled COVID-19 Patient Monitoring. <i>IEEE Access</i> , 2021 , 9, 42483-42492	3.5	11
92	Multi-user detection for the downlink of NOMA systems with multi-antenna schemes and power-efficient amplifiers. <i>Physical Communication</i> , 2019 , 33, 199-205	2.2	10
91	A New Green Prospective of Non-orthogonal Multiple Access (NOMA) for 5G. <i>Information (Switzerland)</i> , 2020 , 11, 89	2.6	10
90	Recent Advances and Future Research Challenges in Non-Orthogonal Multiple Access for 5G Networks 2018 ,		9
89	An Analytical View of ASE for Multicell OFDMA Networks Based on Frequency-Reuse Scheme. <i>IEEE Systems Journal</i> , 2020 , 14, 645-648	4.3	9
88	A WPT-Enabled UAV-Assisted Condition Monitoring Scheme for Wireless Sensor Networks. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021 , 22, 5112-5126	6.1	9
87	En-OsCo 2019 ,		8
86	Performance Analysis of an Opportunistic Relaying Power Line Communication Systems. <i>IEEE Systems Journal</i> , 2018 , 12, 3865-3868	4.3	8
85	Game theoretic frequency reuse approach in OFDMA femtocell networks. <i>Transactions on Emerging Telecommunications Technologies</i> , 2018 , 29, e3440	1.9	8
84	Wireless Information and Power Transfer: Issues, Advances, and Challenges 2017 ,		8
83	Cache-Enabled MIMO Power Line Communications With Precoding Design in Smart Grid. <i>IEEE Transactions on Green Communications and Networking</i> , 2020 , 4, 315-325	4	8
82	. <i>IEEE Access</i> , 2019 , 7, 133342-133350	3.5	7
81	An ultra-reliable and low latency communications assisted modulation based non-orthogonal multiple access scheme. <i>Physical Communication</i> , 2020 , 43, 101035	2.2	7
80	. <i>IEEE Transactions on Vehicular Technology</i> , 2016 , 65, 3430-3439	6.8	7
79	Successive bandwidth division NOMA systems: Uplink power allocation with proportional fairness 2017 ,		7

78	LDPC coding with soft information relaying in cooperative wireless networks 2013 ,		7
77	Propagation Modeling in Large-Scale Cooperative Multi-Hop Ad Hoc Networks. <i>IEEE Access</i> , 2016 , 4, 8925-8937		7
76	Receiver Design to Employ Simultaneous Wireless Information and Power Transmission with Joint CFO and Channel Estimation. <i>IEEE Access</i> , 2019 , 7, 9678-9687	3.5	7
75	A new approach to cooperative NOMA using distributed space time block coding 2017 ,		6
74	Low-Density Lattice Coded Relaying With Joint Iterative Decoding. <i>IEEE Transactions on Communications</i> , 2015 , 63, 4824-4837	6.9	6
73	Self-energized Full-Duplex UAV-assisted Cooperative Communication Systems 2019 ,		5
72	Store-then-cooperate: Energy harvesting scheme in cooperative relay networks 2016 ,		5
71	Distributed Low-Density Lattice Codes. <i>IEEE Communications Letters</i> , 2016 , 20, 77-80	3.8	5
70	Secure communication for separated and integrated receiver architectures in SWIPT 2018 ,		5
69	A soft decode-compress-forward relaying scheme for cooperative wireless networks 2013 ,		5
68	A cooperative modulation recognition: New paradigm for power line networks in smart grid. <i>Physical Communication</i> , 2017 , 25, 268-276	2.2	5
67	Outage Performance Comparison of Dual-Hop Half/Full Duplex Wireless UAV System over Weibull Fading Channel 2020 ,		5
66	UAV-assisted Data Collection in Wireless Powered Sensor Networks over Multiple Fading Channels 2020 ,		5
65	Outage and Throughput Performance of Half/Full-Duplex UAV-Assisted Co-Operative Relay Networks Over Weibull Fading Channel. <i>Wireless Personal Communications</i> , 2021 , 120, 2389-2407	1.9	5
64	A Novel Precoding and Impulsive Noise Mitigation Scheme for MIMO Power Line Communication Systems. <i>IEEE Systems Journal</i> , 2019 , 13, 6-17	4.3	5
63	An Efficient Hybrid Fuzzy-Clustering Driven 3D-Modeling of Magnetic Resonance Imagery for Enhanced Brain Tumor Diagnosis. <i>Electronics (Switzerland)</i> , 2020 , 9, 475	2.6	4
62	Cognitive-femtocell based resource allocation in macrocell network 2017 ,		4
61	A multilevel soft quantize-and-forward scheme for multiple access relay systems 2014 ,		4

60	. <i>IEEE Transactions on Green Communications and Networking</i> , 2020 , 4, 542-555	4	4
59	UAV Trajectory optimization for Data-Gathering from Backscattering Sensor Networks 2020 ,		4
58	LDPC coded lossy forwarding scheme for cooperative wireless networks. <i>Electronics Letters</i> , 2016 , 52, 2070-2072	1.1	4
57	LiSA: A Lightweight and Secure Authentication Mechanism for Smart Metering Infrastructure 2019 ,		4
56	Modulation-Based Simultaneous Wireless Information and Power Transfer. <i>IEEE Communications Letters</i> , 2020 , 24, 136-140	3.8	4
55	. <i>IEEE Access</i> , 2021 , 9, 4223-4232	3.5	4
54	A Fog Computing-Based Device-Driven Mobility Management Scheme for 5G Networks. <i>Sensors</i> , 2020 , 20,	3.8	3
53	Secure Information Transmission with Self Jamming SWIPT. <i>Electronics (Switzerland)</i> , 2020 , 9, 587	2.6	3
52	A New Construction of High Performance LDPC Matrices for Mobile Networks. <i>Sensors</i> , 2020 , 20,	3.8	3
51	Spatially coupled LDPC coding in cooperative wireless networks. <i>Eurasip Journal on Advances in Signal Processing</i> , 2016 , 2016,	1.9	3
50	Sum-MSE Gain of DFT-Based Channel Estimator Over Frequency-Domain LS One in Full-Duplex OFDM Systems. <i>IEEE Systems Journal</i> , 2019 , 13, 1231-1240	4.3	3
49	Resource Allocation for Edge Computing-Based Blockchain: A Game Theoretic Approach 2020 ,		3
48	A SLIPT-assisted Visible Light Communication Scheme 2020 ,		3
47	UAV-assited Wireless Powered Sensor Network over Rician Shadowed Fading Channels 2019 ,		3
46	Energy-Efficient Design of MI Communication-Based 3-D Non-Conventional WSNs. <i>IEEE Systems Journal</i> , 2020 , 14, 2585-2588	4.3	3
45	Pay-As-You-Go: A Wireless Power Transfer-Enabled Beamforming for Cooperative Communication Systems. <i>IEEE Wireless Communications Letters</i> , 2021 , 10, 11-15	5.9	3
44	3-D Trajectory Optimization for Fixed-Wing UAV-Enabled Wireless Network. <i>IEEE Access</i> , 2021 , 9, 35045-35056	3.5	3
43	Soft-Decision Decoding of Permutation-Based Optical Codes for a Multiple Access System. <i>IEEE Communications Letters</i> , 2021 , 25, 2824-2828	3.8	3

42	Physical Layer Security of Energy Harvesting Machine-to-Machine Communication System 2019 , 123-153		2
41	Visible Light Communication System Employing Space Time Coded Relay Nodes and Imaging Receivers. <i>SAIEE Africa Research Journal</i> , 2020 , 111, 56-64	0.7	2
40	Energy-efficient node-to-node communication scheme for fog-based cellular networks. <i>IET Communications</i> , 2020 , 14, 1595-1602	1.3	2
39	A network performance-based device driven communication scheme for 5G networks. <i>Internet Technology Letters</i> , 2018 , 1, e27	1.3	2
38	An energy aware user-centric cooperative mode switching scheme for 5G networks. <i>Internet Technology Letters</i> , 2018 , 1, e55	1.3	2
37	Impact of CFO on Low Latency-Enabled UAV Using "Better Than Nyquist" Pulse Shaping in GFDM 2019 ,		2
36	Performance of M-QAM Scheme over TWDP Fading for Multiple Receive Antennas System 2019 ,		2
35	. <i>IEEE Access</i> , 2019 , 7, 148265-148277	3.5	2
34	2014 ,		2
33	Soft information relaying with transceiver hardware impairments in cognitive networks 2015 ,		2
32	Coded QPSK-OFDM for data transmission over fading channels 2010 ,		2
31	. <i>IEEE Internet of Things Magazine</i> , 2020 , 3, 20-28	3.5	2
30	An Efficient Scheme for Path Planning in Internet of Drones 2019 ,		2
29	A Dipole Sub-Array With Reduced Mutual Coupling for Large Antenna Array Applications. <i>IEEE Access</i> , 2019 , 7, 171495-171502	3.5	2
28	Cumulant-based blind cooperative spectrum sensing method for cognitive radio. <i>Physical Communication</i> , 2018 , 29, 343-349	2.2	2
27	Universal Access in 5G Networks: Potential Challenges and Opportunities for Urban and Rural Environments 2018 , 299-326		2
26	Wireless-Powered Hybrid Terrestrial and Underwater Cooperative Communication System 2019 ,		1
25	2018 ,		1

24	Performance Analysis of UAV-Aided Wireless Communication Systems with Ubiquitous Coverage 2019,		1
23	Optimum Power Allocation for LDPC Coded Soft Forwarding Scheme in Wireless Networks 2015,		1
22	Cooperative relaying with low-density lattice coding and joint iterative decoding 2014,		1
21	MBMQA: A Multicriteria-Aware Routing Approach for the IoT 5G Network Based on D2D Communication. <i>Electronics (Switzerland)</i> , 2021 , 10, 2937	2.6	1
20	Age of Information Based URLLC-enabled UAV Wireless Communications System. <i>IEEE Internet of Things Journal</i> , 2021 , 1-1	10.7	1
19	Blockchain-Aided Edge Computing Market: Smart Contract and Consensus Mechanisms. <i>IEEE Transactions on Mobile Computing</i> , 2022 , 1-1	4.6	1
18	Joint Channel and Information Estimation on Symbol Decomposition-Based Secure Point-to-Point Communications. <i>IFIP Advances in Information and Communication Technology</i> , 2020 , 137-146	0.5	1
17	Introduction, Recent Results, and Challenges in Wireless Information and Power Transfer 2018 , 3-28		1
16	Full Duplex Component-Forward Cooperative Communication for a Secure Wireless Communication System. <i>Electronics (Switzerland)</i> , 2020 , 9, 2102	2.6	1
15	Age of Information in an URLLC-enabled Decode-and-Forward Wireless Communication System 2021,		1
14	Self-Energized Bidirectional Sensor Networks over Hoyt Fading Channels under Hardware Impairments 2019,		1
13	Age of Information in an URLLC-enabled Decode-and-Forward Wireless Communication System. <i>SSRN Electronic Journal</i> ,	1	1
12	Energy Efficient Secure Communication Model against Cooperative Eavesdropper. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 1563	2.6	1
11	Modulation Based Non-Orthogonal Multiple Access for 5G Resilient Networks 2018,		1
10	Secure NOMA Assisted Multi-LED Underwater Visible Light Communication. <i>IEEE Transactions on Vehicular Technology</i> , 2022 , 1-1	6.8	1
9	Recent Trends in AI-Based Intelligent Sensing. <i>Electronics (Switzerland)</i> , 2022 , 11, 1661	2.6	1
8	O2O: An Underwater VLC Approach in Baltic and North Sea. <i>Electronics (Switzerland)</i> , 2022 , 11, 321	2.6	0
7	An IoT-Based Secure Vaccine Distribution System through a Blockchain Network. <i>IEEE Internet of Things Magazine</i> , 2021 , 4, 10-15	3.5	0

6	Coverage Analysis and Scaling Laws in Ultra-Dense Networks. <i>IEEE Transactions on Communications</i> , 2021 , 69, 4158-4171	6.9	o
5	Hybrid RF/visible light communication in downlink wireless system. <i>International Journal of Engineering and Technology(UAE)</i> , 2018 , 7, 272	0.8	o
4	Harvest-on-Sky: An Aol-Driven UAV-Assisted Wireless Communication System. <i>IEEE Internet of Things Magazine</i> , 2022 , 5, 142-146	3.5	o
3	SWIPT-PS Enabled Cache-Aided Self-Energized UAV for Cooperative Communication 2021 , 73-96		
2	3D-multilayer magneto-inductive transceiver coil structure and optimal placement of relays for non-conventional media. <i>Wireless Networks</i> ,1	2.5	
1	Self-energising of Full-Duplex UAV-Assisted Wireless Networks. <i>Unmanned System Technologies</i> , 2023 , 39-60	0.4	