Babu A V

List of Publications by Year
in descending order

84	695	687335 13	677123 22
papers	citations	h-index	g-index

85	85	85	695
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fairness Analysis of IEEE 802.11 Multirate Wireless LANs. IEEE Transactions on Vehicular Technology, 2007, 56, 3073-3088.	6.3	63
2	Full/Half Duplex Cooperative NOMA Under Imperfect Successive Interference Cancellation and Channel State Estimation Errors. IEEE Access, 2019, 7, 179961-179984.	4.2	48
3	Performance Analysis of NOMA-Based Underlay Cognitive Radio Networks With Partial <?brk?>Relay Selection. IEEE Transactions on Vehicular Technology, 2021, 70, 4615-4630.	6.3	37
4	Improving energy efficiency of incremental relay based cooperative communications in wireless body area networks. International Journal of Communication Systems, 2015, 28, 91-111.	2.5	36
5	Link Reliability Based Greedy Perimeter Stateless Routing for Vehicular Ad Hoc Networks. International Journal of Vehicular Technology, 2015, 2015, 1-16.	1.1	25
6	Analytical model for connectivity of vehicular ad hoc networks in the presence of channel randomness. International Journal of Communication Systems, 2013, 26, 927-946.	2.5	24
7	Outage and Throughput Analysis of Full-Duplex Cooperative NOMA System With Energy Harvesting. IEEE Transactions on Vehicular Technology, 2021, 70, 11648-11664.	6.3	24
8	Throughput Analysis of Energy Harvesting Enabled Incremental Relaying NOMA System. IEEE Communications Letters, 2020, 24, 1419-1423.	4.1	22
9	Link residual lifetime-based next hop selection scheme for vehicular ad hoc networks. Eurasip Journal on Wireless Communications and Networking, 2017, 2017, .	2.4	21
10	Proportional fair resource allocation in vehicle-to-infrastructure networks for drive-thru Internet applications. Computer Communications, 2014, 40, 33-50.	5.1	20
11	Maximizing the data transmission rate of a cooperative relay system in an underwater acoustic channel. International Journal of Communication Systems, 2012, 25, 231-253.	2.5	19
12	Packet size optimization for energy efficient cooperative Wireless Body Area Networks. , 2012, , .		18
13	Network connectivity of one-dimensional Vehicular Ad hoc Network. , 2011, , .		17
14	Optimal packet size for energy efficient WBAN under m-periodic scheduled access mode. , 2014, , .		17
15	Fair and efficient resource allocation in IEEE 802.11ah WLAN with heterogeneous data rates. Computer Communications, 2020, 151, 154-164.	5.1	16
16	Connectivity Analysis of Vehicular Ad Hoc Networks from a Physical Layer Perspective. Wireless Personal Communications, 2013, 71, 45-70.	2.7	15
17	Performance Analysis of IEEE 802.11 Multirate WLANs: Time Based Fairness Vs Throughput Based Fairness. , 0, , .		13
18	A Hybrid ARQ scheme combining erasure codes and selective retransmissions for reliable data transfer in underwater acoustic sensor networks. Eurasip Journal on Wireless Communications and Networking, 2017, 2017, .	2.4	11

#	Article	IF	Citations
19	Power Adaptation for Improving the Performance of Time Switching SWIPT-Based Full-Duplex Cooperative NOMA Network. IEEE Communications Letters, 2020, 24, 2956-2960.	4.1	11
20	Analysis of Link Life Time in Vehicular Ad Hoc Networks for Free-Flow Traffic State. Wireless Personal Communications, 2014, 75, 81-102.	2.7	10
21	Energy consumption analysis of modulation schemes in IEEE 802.15.6-based wireless body area networks. Eurasip Journal on Wireless Communications and Networking, 2016, 2016, .	2.4	10
22	Optimal power allocation for energyâ€efficient fullâ€duplex cognitive relay networks under primary interference. IET Communications, 2019, 13, 3317-3325.	2.2	9
23	Network Connectivity Probability of Linear Vehicular Ad Hoc Networks on Two-Way Street. Communications and Network, 2012, 04, 332-341.	0.8	9
24	Energy efficiency of IEEE 802.15.6 based wireless body area networks in scheduled access mode. , 2013, , .		8
25	Energy efficiency analysis of IEEE 802.15.6 based wireless body area networks in scheduled access mode. Wireless Networks, 2016, 22, 1441-1459.	3.0	8
26	Outage analysis of underlay cognitive NOMA system with cooperative full duplex relaying. Transactions on Emerging Telecommunications Technologies, 2019, 30, e3701.	3.9	8
27	Performance analysis of IEEE 802.11ah wireless local area network under the restricted access windowâ€based mechanism. International Journal of Communication Systems, 2019, 32, e3888.	2.5	8
28	Ensuring equal outage performance for downâ€link secondary users in full/half duplex cognitive NOMA systems. IET Communications, 2020, 14, 63-75.	2.2	8
29	Probability distribution of link life time in vehicular ad hoc networks. , 2013, , .		7
30	Computation of minimum transmit power for network connectivity in vehicular ad hoc networks formed by vehicles with random communication range. International Journal of Communication Systems, 2014, 27, 931-955.	2.5	7
31	Cooperative NOMA system with incremental relaying and energy harvesting: Performance analysis and optimization. Transactions on Emerging Telecommunications Technologies, 2020, 31, e4075.	3.9	7
32	Non-orthogonal multiple access in full-duplex-based coordinated direct and relay transmission (CDRT) system: performance analysis and optimization. Eurasip Journal on Wireless Communications and Networking, 2020, 2020, .	2.4	7
33	Saturation throughput analysis of IEEE 802.11ad wireless LAN in the contention based access period(CBAP). , 2016, , .		6
34	Theoretical maximum throughput of IEEE 802.11ad millimeter wave wireless LAN in the contention based access period: With two level aggregation. , 2017, , .		6
35	Performance analysis of energy harvesting cognitive relay networks with primary interference. Telecommunication Systems, 2018, 68, 445-459.	2.5	6
36	Model for Path Duration in Vehicular Ad Hoc Networks under Greedy Forwarding Strategy. Procedia Computer Science, 2015, 48, 394-400.	2.0	5

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37	Improving energy efficiency performance of ALOHA based underwater acoustic sensor networks. , 2016, , .		5
38	Enhancing Reliability of IEEE 802.15.6 Wireless Body Area Networks in Scheduled Access Mode and Error Prone Channels. Wireless Personal Communications, 2016, 89, 93-118.	2.7	5
39	Power Adaptation for Enhancing Spectral Efficiency and Energy Efficiency in Multi-Hop Full Duplex Cognitive Wireless Relay Networks. IEEE Transactions on Mobile Computing, 2022, 21, 2143-2157.	5.8	5
40	Tuning transmission opportunity (TXOP) limits for providing bit-based fairness in IEEE 802.11p V2I networks. , 2012, , .		4
41	Selection of minimum transmit power for network connectivity in Vehicular Ad Hoc Networks. , 2012, , .		4
42	An improved least square channel estimation technique for OFDM systems in sparse underwater acoustic channel. , 2014, , .		4
43	A Probabilistic Model for Link Duration in Vehicular Ad Hoc Networks under Rayleigh Fading Channel Conditions. , 2015, , .		4
44	Minimizing the Total Energy Consumption in Multi-hop UWASNs. Wireless Personal Communications, 2015, 83, 2693-2709.	2.7	4
45	Performance analysis of erasure coding based data transfer in Underwater Acoustic Sensor Networks. , 2015, , .		4
46	Improving aggregate utility in IEEE 802.11p based vehicle-to-infrastructure networks. Telecommunication Systems, 2016, 61, 359-385.	2.5	4
47	Erasure Codes Based Adaptive Multi-hop Reliable Data Transfer for Underwater Acoustic Sensor Networks. Wireless Personal Communications, 2017, 94, 579-604.	2.7	4
48	Dual-hop full duplex relay networks over composite fading channels: Power and location optimization. Physical Communication, 2018, 30, 1-14.	2.1	4
49	Outage Probability Analysis and Optimization of Cognitive Full-Duplex Relay Networks. Wireless Personal Communications, 2019, 105, 1329-1352.	2.7	4
50	Node Isolation Probability of Wireless Adhoc Networks in Nagakami Fading Channel. International Journal of Computer Networks and Communications, 2010, 2, 21-36.	0.3	4
51	Frame length optimization in IEEE 802.15.6 UWB cooperative body area networks. , 2015, , .		3
52	Outage performance of multihop full duplex relaying system over Nakagami-m fading channels. , 2016, , .		3
53	Energy optimal channel attempt rate and packet size for ALOHA based underwater acoustic sensor networks. Telecommunication Systems, 2017, 65, 429-442.	2.5	3
54	Outage probability analysis and optimal transmit power allocation for multi-hop full duplex relay network over Nakagami-m fading channels. Eurasip Journal on Wireless Communications and Networking, 2018, 2018, .	2.4	3

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55	Performance analysis of power splitting SWIPTâ€enabled full duplex cooperative NOMA system with direct link. IET Communications, 2021, 15, 1028-1044.	2.2	3
56	Full/half duplex cooperative relaying NOMA network under power splitting based SWIPT: Performance analysis and optimization. Physical Communication, 2021, 46, 101335.	2.1	3
57	Maximizing Aggregate Saturation Throughput in IEEE 802.11 Wireless LAN with Service Differentiation. , 2007, , 503-514.		3
58	A Novel Scheme for Achieving Time Based Fairness in IEEE 802.11 Multirate Wireless LANs. , 0, , .		2
59	Meeting QoS-assured multi-hop connectivity requirements in vehicular ad hoc networks. , 2013, , .		2
60	A probabilistic model for communication link reliability in vehicular ad hoc networks. , 2014, , .		2
61	Optimal hop positionâ€based minimum energy routing protocol for underwater acoustic sensor networks. Journal of Engineering, 2015, 2015, 187-196.	1.1	2
62	Performance evaluation of cooperative communication in WBANs with maximal ratio combining. , 2015, , .		2
63	Modeling and Analysis of Link Duration in Vehicular Ad Hoc Networks Under Different Fading Channel Conditions. International Journal of Wireless Information Networks, 2015, 22, 157-170.	2.7	2
64	Variable Beam Width Selection for Improving the Throughput of IEEE 802.11ad Wireless LAN in the Contention Based Access Period. International Journal of Wireless Information Networks, 2018, 25, 57-71.	2.7	2
65	Improving the performance of hybrid multiple access scheme in millimeter wave wireless personal area networks. Computer Communications, 2018, 127, 158-171.	5.1	2
66	Performance analysis of nonorthogonal multiple accessâ€based underlay cognitive relay network. International Journal of Communication Systems, 2019, 32, e3976.	2.5	2
67	Combining contention-based access and dynamic service period allocation for performance improvement in IEEE 802.11ad mmWave WLAN. International Journal of Communication Systems, 2020, 33, e4304.	2.5	2
68	Optimal power allocation for nonâ€orthogonal multiple access enabled fullâ€duplex underlay cognitive relay networks under partial relay selection. Transactions on Emerging Telecommunications Technologies, 2022, 33, .	3.9	2
69	Service Differentiation Schemes in IEEE 802.11 Wireless LANs with Variable Frame Size. International Journal of Computers and Applications, 2007, 29, 187-195.	1.3	1
70	Prediction of link residual lifetime using Kalman filter in vehicular ad hoc networks. , 2015, , .		1
71	Performance Modeling of Link Duration in Vehicular Ad Hoc Networks Under Weibull Fading Channel Conditions. Wireless Personal Communications, 2017, 96, 6047-6068.	2.7	1
72	Relay Placement for Coverage Extension in Cellular Wireless Networks Under Composite Fading Model. International Journal of Wireless Information Networks, 2017, 24, 329-343.	2.7	1

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73	Relay location optimization in cognitive full-duplex relay networks. , 2017, , .		1
74	Optimization of decode-and-forward multihop full duplex relay networks under residual-self-interference. Ad Hoc Networks, 2018, 80, 81-94.	5.5	1
75	Multihop full duplex relaying with coherent signaling: Outage probability analysis and power optimization. Ad Hoc Networks, 2020, 97, 102027.	5.5	1
76	Nonintrusive Estimation of Link Characteristics in IEEE 802.11 Wireless LANs. , 0, , .		0
77	Resolving rate anomaly in IEEE 802.11p multi-rate vehicle-to-infrastructure networks using TXOP differentiation. , 2012, , .		0
78	Performance evaluation of regular cycle non-binary LDPC codes in AWGN channel. , 2012, , .		0
79	Downlink outage probability analysis in two-hop relay-assisted cellular network. , 2015, , .		0
80	Modified harvest-then-cooperate protocol for relay-assisted cellular networks. , 2017, , .		0
81	Selection of optimal transmit power in multi-hop underlay cognitive full-duplex relay networks. Eurasip Journal on Wireless Communications and Networking, 2018, 2018, .	2.4	0
82	Outage Performance Comparison of Dual-Hop Full Duplex Underlay Cognitive Relay Networks. Wireless Personal Communications, 2019, 106, 1135-1160.	2.7	0
83	SERVICE DIFFERENTIATION SCHEMES IN IEEE 802.11 WIRELESS LANS WITH VARIABLE FRAME SIZE. International Journal of Computers and Applications, 2007, 29, .	1.3	0
84	Bit-Based Fairness in IEEE802.11p MAC for Vehicle-to-Infrastructure Networks. Lecture Notes in Computer Science, 2012, , 328-337.	1.3	0