Navrati Saxena

List of Publications by Year
in descending order

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100 papers	3,824 citations	331670 21 h-index	128289 60 g-index
101 all docs	101 docs citations	101 times ranked	4690 citing authors

#	Article	IF	Citations
1	Next Generation 5G Wireless Networks: A Comprehensive Survey. IEEE Communications Surveys and Tutorials, 2016, 18, 1617-1655.	39.4	2,413
2	Dynamic duty cycle and adaptive contention window based QoS-MAC protocol for wireless multimedia sensor networks. Computer Networks, 2008, 52, 2532-2542.	5.1	120
3	Towards Connected Living: 5G Enabled Internet of Things (IoT). IETE Technical Review (Institution of) Tj ETQq1 1 0.784314 rgBT /Overlo	3.2	83
4	Efficient IoT Gateway over 5G Wireless: A New Design with Prototype and Implementation Results. , 2017, 55, 97-105.		72
5	Traffic-Aware Cloud RAN: A Key for Green 5G Networks. IEEE Journal on Selected Areas in Communications, 2016, 34, 1010-1021.	14.0	59
6	Backscatter Communications: Inception of the Battery-Free Eraâ€"A Comprehensive Survey. Electronics (Switzerland), 2019, 8, 129.	3.1	50
7	Efficient 5G Small Cell Planning With eMBMS for Optimal Demand Response in Smart Grids. IEEE Transactions on Industrial Informatics, 2017, 13, 1471-1481.	11.3	49
8	MDP-IoT: MDP based interest forwarding for heterogeneous traffic in IoT-NDN environment. Future Generation Computer Systems, 2018, 79, 892-908.	7.5	46
9	Narrowband Internet of Things: A Comprehensive Study. Computer Networks, 2020, 173, 107209.	5.1	41
10	Hybrid Directional Discontinuous Reception (HD-DRX) for 5G Communication. IEEE Communications Letters, 2017, 21, 1421-1424.	4.1	40
11	Efficient Cell Outage Detection in 5G HetNets Using Hidden Markov Model. IEEE Communications Letters, 2016, 20, 562-565.	4.1	37
12	Traffic-Aware Energy Optimization in Green LTE Cellular Systems. IEEE Communications Letters, 2014, 18, 38-41.	4.1	33
13	Directional Discontinuous Reception (DDRX) for mmWave Enabled 5G Communications. IEEE Transactions on Mobile Computing, 2019, 18, 2330-2343.	5.8	33
14	Exploiting Social Relationships for Trustworthy D2D Relay in 5G Cellular Networks. IEEE Communications Magazine, 2020, 58, 48-53.	6.1	33
15	Efficient Monitoring and Contact Tracing for COVID-19: A Smart IoT-Based Framework. IEEE Internet of Things Magazine, 2020, 3, 17-23.	2.6	32
16	A Survey on 5G Network Technologies from Social Perspective. IETE Technical Review (Institution of) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	3.2	31
17	Energy-Efficient BBU Allocation for Green C-RAN. IEEE Communications Letters, 2017, 21, 1637-1640.	4.1	31
18	Hybrid Artificial Bee Colony Algorithm for an Energy Efficient Internet of Things based on Wireless Sensor Network. IETE Technical Review (Institution of Electronics and Telecommunication Engineers,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	3.2	30

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19	Multi-objective handover in LTE macro/femto-cell networks. Journal of Communications and Networks, 2012, 14, 578-587.	2.6	27
20	DRX over LAA-LTE-A New Design and Analysis Based on Semi-Markov Model. IEEE Transactions on Mobile Computing, 2019, 18, 276-289.	5.8	26
21	Dynamic Reservation Scheme of Physical Cell Identity for 3GPP LTE Femtocell Systems. Journal of Information Processing Systems, 2009, 5, 207-220.	0.9	26
22	Mobility Management Survey for Home-eNB Based 3GPP LTE Systems. Journal of Information Processing Systems, 2008, 4, 145-152.	0.9	25
23	Reliable Relay: Autonomous Social D2D Paradigm for 5G LoS Communications. IEEE Communications Letters, 2017, 21, 1593-1596.	4.1	22
24	PPT: A Push Pull Traffic Algorithm to Improve QoS Provisioning in IoT-NDN Environment. IEEE Communications Letters, 2017, 21, 1417-1420.	4.1	21
25	Location-based social video sharing over next generation cellular networks. , 2015, 53, 136-143.		20
26	A QoS-Based Energy-Aware MAC Protocol for Wireless Multimedia Sensor Networks. IEEE Vehicular Technology Conference, 2008, , .	0.4	18
27	QuESt: a QoSâ€based energy efficient sensor routing protocol. Wireless Communications and Mobile Computing, 2009, 9, 417-426.	1.2	18
28	Ten Commandments of Emerging 5G Networks. Wireless Personal Communications, 2018, 98, 2591-2621.	2.7	18
29	D-TCP: Dynamic TCP congestion control algorithm for next generation mobile networks. , 2018, , .		16
30	NexGen D-TCP: Next Generation Dynamic TCP Congestion Control Algorithm. IEEE Access, 2020, 8, 164482-164496.	4.2	16
31	A new predictive dynamic priority scheduling in Ethernet passive optical networks (EPONs). Optical Switching and Networking, 2010, 7, 215-223.	2.0	15
32	MDP-Based Model for Interest Scheduling in IoT-NDN Environment. IEEE Communications Letters, 2018, 22, 232-235.	4.1	15
33	Artificial Intelligence-Based Discontinuous Reception for Energy Saving in 5G Networks. Electronics (Switzerland), 2019, 8, 778.	3.1	15
34	Energy Efficiency in Wireless Networks â€“ a Composite Review. IETE Technical Review (Institution of) Tj ETQq0 0 0 rgBT /Overlock 10 T	3.2	14
35	DRX in New Radio Unlicensed: A Step Beyond 5G Wireless. IEEE Communications Magazine, 2021, 59, 82-88.	6.1	14
36	An Exhaustive Review on Internet of Things from Koreaâ€™s Perspective. Wireless Personal Communications, 2016, 90, 1463-1486.	2.7	13

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37	Flexible Beamforming in 5G Wireless for Internet of Things. IETE Technical Review (Institution of) Tj ETQq1 1 0.784314 rgBT /Overlock	3.2	13
38	Discount Interference Pricing Mechanism for Data Offloading in D2D Communications. IEEE Communications Letters, 2018, 22, 1688-1691.	4.1	12
39	Deepâ€DRX: A framework for deep learningâ€“based discontinuous reception in 5G wireless networks. Transactions on Emerging Telecommunications Technologies, 2019, 30, e3579.	3.9	12
40	Ambient Backscatter Communications to Energize IoT Devices. IETE Technical Review (Institution of) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	3.2	11
41	LTE multicast communication for demand response in smart grids. , 2014, , .		10
42	Analytical modeling of DRX with flexible TTI for 5G communications. Transactions on Emerging Telecommunications Technologies, 2018, 29, e3275.	3.9	10
43	Exploiting multicast in LTE networks for smart grids demand response. , 2015, , .		9
44	Convergence of WSN and cognitive cellular network using maximum frequency reuse. IET Communications, 2017, 11, 664-672.	2.2	9
45	Device-to-Device Communication from Control and Frequency Perspective: A Composite Review. IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India), 2017, 34, 286-297.	3.2	8
46	A Review on Game-Theoretic Incentive Mechanisms for Mobile Data Offloading in Heterogeneous Networks. IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India), 2017, 34, 15-26.	3.2	8
47	D2D-based Survival on Sharing for critical communications. Wireless Networks, 2018, 24, 2283-2295.	3.0	8
48	A New Design and Analysis of Power Saving for IoT Gateway. IETE Technical Review (Institution of) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	3.2	8
49	Flooding Control in Named Data Networking. IETE Technical Review (Institution of Electronics and) Tj ETQq1 1 0.784314 rgBT /Overlock	3.2	7
50	An efficient hybrid scheduling scheme for impatience user in eMBMS over LTE. , 2013, , .		6
51	Social Reliable D2D Relay for Trustworthy Paradigm in 5G Wireless Networks. Peer-to-Peer Networking and Applications, 2020, 13, 1526-1538.	3.9	6
52	Smart M2M Uplink Scheduling Algorithm over LTE. Elektronika Ir Elektrotechnika, 2013, 19, .	0.8	6
53	Social Network Aware Caching for 5G Radio Access Network. IETE Technical Review (Institution of) Tj ETQq1 1 0.784314 rgBT /Overlock	3.2	5
54	Mobile assisted directional paging for 5G communications. Transactions on Emerging Telecommunications Technologies, 2018, 29, e3270.	3.9	5

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55	Battery-aware rate adaptation for extending video streaming playback time. Multimedia Tools and Applications, 2018, 77, 23877-23908.	3.9	5
56	Mobile Assisted Directional Paging (MADP) in Emerging 5G Wireless Networks. IEEE Wireless Communications Letters, 2018, 7, 416-419.	5.0	5
57	BiSON: A Bioinspired Self-Organizing Network for Dynamic Auto-Configuration in 5G Wireless. Wireless Communications and Mobile Computing, 2018, 2018, 1-13.	1.2	5
58	Energy efficiency analysis of narrowband Internet of Things with auxiliary active cycles for small data transmission. Transactions on Emerging Telecommunications Technologies, 2022, 33, e4376.	3.9	5
59	Improved Cluster Heads Selection Method in Wireless Sensor Networks. , 2010, , .		4
60	Greedy Forwarding with Virtual Destination Strategy for Geographic Routing in Wireless Sensor Networks. , 2010, , .		4
61	An intelligent wavelet transform-based framework to detect subsurface fires with NOAAâ€“AVHRR images. International Journal of Remote Sensing, 2012, 33, 1276-1295.	2.9	4
62	Stochastic hourly load forecasting for smart grids in Korea using NARX model. , 2014, , .		4
63	An outdoor assessment of scene analysis for Wi-Fi based positioning. , 2014, , .		4
64	Auto-configuration of Physical Cell ID in LTE femtocellular systems using Self Organizing Networks. Wireless Networks, 2014, 20, 1107-1120.	3.0	4
65	Extending Video Playback Time With Limited Residual Battery. IEEE Communications Letters, 2016, 20, 1659-1662.	4.1	4
66	Mobile Network Operator and Mobile User Cooperation for Customized D2D Data Services. Journal of Network and Systems Management, 2018, 26, 878-903.	4.9	4
67	A novel safety message dissemination framework in LTEâ€V2X system. Transactions on Emerging Telecommunications Technologies, 2021, 32, e4275.	3.9	4
68	CARP: Context-Aware Resource Provisioning for Multimedia over 4G Wireless Networks. Lecture Notes in Computer Science, 2007, , 652-659.	1.3	4
69	DRX in NR Unlicensed for B5G Wireless: Modeling and Analysis. IEEE Transactions on Mobile Computing, 2022, , 1-1.	5.8	4
70	Clustering based power management for green LTE networks. , 2014, , .		3
71	Proximityâ€based video delivery architecture for LTE networks. Electronics Letters, 2016, 52, 984-986.	1.0	3
72	Incentive and Penalty Mechanism for Power Allocation in Cooperative D2D-Cellular Transmissions. Electronics (Switzerland), 2020, 9, 408.	3.1	3

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73	A New Channel-Aware Rate Adaptation in High Speed WLANs. IEICE Transactions on Communications, 2009, E92-B, 2345-2348.	0.7	3
74	Machine Learning-Based DRX Mechanism in NR-Unlicensed. IEEE Wireless Communications Letters, 2022, 11, 1052-1056.	5.0	3
75	A Multi-objective Genetic Algorithmic Approach for QoS-Based Energy-Efficient Sensor Routing Protocol. Lecture Notes in Computer Science, 2007, , 523-526.	1.3	2
76	Special issue on advances in 4G wireless and beyond. Eurasip Journal on Wireless Communications and Networking, 2013, 2013, .	2.4	2
77	Analysis of a novel advanced greedy perimeter stateless routing algorithm. , 2013, , .		2
78	NEST: novel eMBMS scheduling technique. Wireless Networks, 2016, 22, 1837-1850.	3.0	2
79	Efficient M2M Gateway Planning for Next-Generation Cellular Networks. IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India), 2018, 35, 413-425.	3.2	2
80	D2D-Based Survival on Sharing: For Enhanced Disaster Time Connectivity. IEEE Technology and Society Magazine, 2018, 37, 64-73.	0.8	2
81	Accelerated Reliability Growth Test for Magnetic Resonance Imaging System Using Time-of-Flight Three-Dimensional Pulse Sequence. Diagnostics, 2019, 9, 164.	2.6	2
82	Data Scheduling and Transmission Strategies in Asymmetric Telecommunication Environments. , 0, , .		2
83	A dynamic hybrid scheduling algorithm for heterogeneous asymmetric environments. International Journal of Parallel, Emergent and Distributed Systems, 2005, 20, 185-204.	1.0	1
84	A new QoS aware predictive scheduling in EPONs. , 2009, , .		1
85	Multilevel Hierarchical Caching for Efficient Wireless Video Distribution. IETE Journal of Research, 2017, 63, 260-267.	2.6	1
86	An information theoretic framework for predictive channel reservation in VoIP over GPRS. International Journal of Communication Systems, 2006, 19, 463-489.	2.5	0
87	Near-Optimal Tracking for Residents' Comfort in Context-Aware Heterogeneous Smart Environments. Computer Journal, 2009, 52, 878-889.	2.4	0
88	Optimal Tracking Area Update in LTE Systems. IEICE Transactions on Communications, 2010, E93-B, 2215-2218.	0.7	0
89	New relay station addition scheme in multi-hop relay networks based on path loss. , 2010, , .		0
90	An efficient channel and queue aware resource allocation Strategy in wireless access networks. , 2010, , .		0

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91	RoBiN: Random Access using Border Routers in Cellular Networks. Mobile Networks and Applications, 2016, 21, 620-634.	3.3	0
92	ASAP: Active safety system for avoidance of vehicular pileup crashes. , 2016, , .		0
93	Social C-RAN: Novel Futuristic Paradigm for Next-Generation Cellular Networks. IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India), 2018, 35, 244-255.	3.2	0
94	Video Delivery Architecture for Hierarchical HetNet: HH-D2D Caching. IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India), 2018, 35, 494-505.	3.2	0
95	SPEAD: Smart P-GW for Enhanced Access Discovery and Selection for NGCN. , 2018, , .		0
96	3B-ARA: Bandwidth, Buffer, and Battery Aware Rate Adaptation for Dynamic HTTP Streaming. IEEE Communications Letters, 2018, 22, 962-965.	4.1	0
97	Avoid Unnecessary Handovers in a High Dense Environment. Communications in Computer and Information Science, 2009, , 97-104.	0.5	0
98	Context-Aware Resource Management in Heterogenous Smart Environments. IEICE Transactions on Communications, 2009, E92-B, 318-321.	0.7	0
99	Near-Optimal Auto-Configuration of PCID in LTE Cellular Systems. IEICE Transactions on Communications, 2009, E92-B, 3252-3255.	0.7	0
100	A Novel Resource Allocation and Admission Control in LTE Systems. IEICE Transactions on Communications, 2010, E93-B, 721-724.	0.7	0