Abhishek Roy

List of Publications by Year
in descending order

56 papers	3,241 citations	567281 15 h-index	254184 43 g-index
56 all docs	56 docs citations	56 times ranked	4228 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	Towards Connected Living: 5G Enabled Internet of Things (IoT). IETE Technical Review (Institution of) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	3.2	83
3	Efficient IoT Gateway over 5G Wireless: A New Design with Prototype and Implementation Results. , 2017, 55, 97-105.		72
4	Traffic-Aware Cloud RAN: A Key for Green 5G Networks. IEEE Journal on Selected Areas in Communications, 2016, 34, 1010-1021.	14.0	59
5	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
6	Hybrid Directional Discontinuous Reception (HD-DRX) for 5G Communication. IEEE Communications Letters, 2017, 21, 1421-1424.	4.1	40
7	Efficient Cell Outage Detection in 5G HetNets Using Hidden Markov Model. IEEE Communications Letters, 2016, 20, 562-565.	4.1	37
8	Directional Discontinuous Reception (DDRX) for mmWave Enabled 5G Communications. IEEE Transactions on Mobile Computing, 2019, 18, 2330-2343.	5.8	33
9	A Survey on 5G Network Technologies from Social Perspective. IETE Technical Review (Institution of) Tj ETQq1 1 0.784314 rgBT /Over	3.2	31
10	Energy-Efficient BBU Allocation for Green C-RAN. IEEE Communications Letters, 2017, 21, 1637-1640.	4.1	31
11	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
12	Reliable Relay: Autonomous Social D2D Paradigm for 5G LoS Communications. IEEE Communications Letters, 2017, 21, 1593-1596.	4.1	22
13	Location Update versus Paging Trade-Off in Cellular Networks: An Approach Based on Vector Quantization. IEEE Transactions on Mobile Computing, 2007, 6, 1426-1440.	5.8	21
14	PPT: A Push Pull Traffic Algorithm to Improve QoS Provisioning in IoT-NDN Environment. IEEE Communications Letters, 2017, 21, 1417-1420.	4.1	21
15	Location-based social video sharing over next generation cellular networks. , 2015, 53, 136-143.		20
16	<i>QuESt</i>: a QoSâ€based energy efficient sensor routing protocol. Wireless Communications and Mobile Computing, 2009, 9, 417-426.	1.2	18
17	Ten Commandments of Emerging 5G Networks. Wireless Personal Communications, 2018, 98, 2591-2621.	2.7	18
18	D-TCP: Dynamic TCP congestion control algorithm for next generation mobile networks. , 2018, , .		16

#	Article	IF	Citations
19	Artificial Intelligence-Based Discontinuous Reception for Energy Saving in 5G Networks. Electronics (Switzerland), 2019, 8, 778.	3.1	15
20	Energy Efficiency in Wireless Networks â€" a Composite Review. IETE Technical Review (Institution of) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	3.2	14
21	DRX in New Radio Unlicensed: A Step Beyond 5G Wireless. IEEE Communications Magazine, 2021, 59, 82-88.	6.1	14
22	An Exhaustive Review on Internet of Things from Koreaâ€™s Perspective. Wireless Personal Communications, 2016, 90, 1463-1486.	2.7	13
23	5G Wireless with Cognitive Radio and Massive IoT. IETE Technical Review (Institution of Electronics) Tj ETQq1 1 0.784314 rgBT /Overlock	3.2	13
24	Flexible Beamforming in 5G Wireless for Internet of Things. IETE Technical Review (Institution of) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 5	3.2	13
25	Discount Interference Pricing Mechanism for Data Offloading in D2D Communications. IEEE Communications Letters, 2018, 22, 1688-1691.	4.1	12
26	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
27	LTE multicast communication for demand response in smart grids. , 2014, , .		10
28	Analytical modeling of DRX with flexible TTI for 5G communications. Transactions on Emerging Telecommunications Technologies, 2018, 29, e3275.	3.9	10
29	Exploiting multicast in LTE networks for smart grids demand response. , 2015, , .		9
30	Convergence of WSN and cognitive cellular network using maximum frequency reuse. IET Communications, 2017, 11, 664-672.	2.2	9
31	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
32	D2D-based Survival on Sharing for critical communications. Wireless Networks, 2018, 24, 2283-2295.	3.0	8
33	A New Design and Analysis of Power Saving for IoT Gateway. IETE Technical Review (Institution of) Tj ETQq1 1 0.784314 rgBT /Overlock	3.2	8
34	Flooding Control in Named Data Networking. IETE Technical Review (Institution of Electronics and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	3.2	7
35	An efficient hybrid scheduling scheme for impatience user in eMBMS over LTE. , 2013, , .		6
36	Mobile assisted directional paging for 5G communications. Transactions on Emerging Telecommunications Technologies, 2018, 29, e3270.	3.9	5

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37	Battery-aware rate adaptation for extending video streaming playback time. Multimedia Tools and Applications, 2018, 77, 23877-23908.	3.9	5
38	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
39	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
40	Stochastic hourly load forecasting for smart grids in Korea using NARX model. , 2014, , .		4
41	Auto-configuration of Physical Cell ID in LTE femtocellular systems using Self Organizing Networks. Wireless Networks, 2014, 20, 1107-1120.	3.0	4
42	Extending Video Playback Time With Limited Residual Battery. IEEE Communications Letters, 2016, 20, 1659-1662.	4.1	4
43	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
44	A New Channel-Aware Rate Adaptation in High Speed WLANs. IEICE Transactions on Communications, 2009, E92-B, 2345-2348.	0.7	3
45	Machine Learning-Based DRX Mechanism in NR-Unlicensed. IEEE Wireless Communications Letters, 2022, 11, 1052-1056.	5.0	3
46	NEST: novel eMBMS scheduling technique. Wireless Networks, 2016, 22, 1837-1850.	3.0	2
47	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
48	D2D-Based Survival on Sharing: For Enhanced Disaster Time Connectivity. IEEE Technology and Society Magazine, 2018, 37, 64-73.	0.8	2
49	Multilevel Hierarchical Caching for Efficient Wireless Video Distribution. IETE Journal of Research, 2017, 63, 260-267.	2.6	1
50	Cognitive Radio Enabled Wireless Sensor Networks and Survivability Challenges. International Journal of Distributed Sensor Networks, 2015, 11, 872821.	2.2	1
51	Near-Optimal Tracking for Residents' Comfort in Context-Aware Heterogeneous Smart Environments. Computer Journal, 2009, 52, 878-889.	2.4	0
52	Optimal Tracking Area Update in LTE Systems. IEICE Transactions on Communications, 2010, E93-B, 2215-2218.	0.7	0
53	RoBiN: Random Access using Border Routers in Cellular Networks. Mobile Networks and Applications, 2016, 21, 620-634.	3.3	0
54	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

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55	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
56	3B-ARA: Bandwidth, Buffer, and Battery Aware Rate Adaptation for Dynamic HTTP Streaming. IEEE Communications Letters, 2018, 22, 962-965.	4.1	0