

# Abhishek Roy

## List of Publications by Year in descending order

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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	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	13
2	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
3	Machine Learning-Based DRX Mechanism in NR-Unclicensed. IEEE Wireless Communications Letters, 2022, 11, 1052-1056.	5.0	3
4	DRX in New Radio Unclicensed: A Step Beyond 5G Wireless. IEEE Communications Magazine, 2021, 59, 82-88.	6.1	14
5	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
6	Artificial Intelligence-Based Discontinuous Reception for Energy Saving in 5G Networks. Electronics (Switzerland), 2019, 8, 778.	3.1	15
7	DeepDRX: A framework for deep learning-based discontinuous reception in 5G wireless networks. Transactions on Emerging Telecommunications Technologies, 2019, 30, e3579.	3.9	12
8	Directional Discontinuous Reception (DDRX) for mmWave Enabled 5G Communications. IEEE Transactions on Mobile Computing, 2019, 18, 2330-2343.	5.8	33
9	Flexible Beamforming in 5G Wireless for Internet of Things. IETE Technical Review (Institution of Tj ETQq1 1 0.784314 rgBT /Overlock	3.2	13
10	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
11	Mobile assisted directional paging for 5G communications. Transactions on Emerging Telecommunications Technologies, 2018, 29, e3270.	3.9	5
12	Battery-aware rate adaptation for extending video streaming playback time. Multimedia Tools and Applications, 2018, 77, 23877-23908.	3.9	5
13	Analytical modeling of DRX with flexible TTI for 5G communications. Transactions on Emerging Telecommunications Technologies, 2018, 29, e3275.	3.9	10
14	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
15	D-TCP: Dynamic TCP congestion control algorithm for next generation mobile networks. , 2018, , .		16
16	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
17	Flooding Control in Named Data Networking. IETE Technical Review (Institution of Electronics and) Tj ETQq1 1 0.784314 rgBT /Overlock	3.2	7
18	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

#	ARTICLE	IF	CITATIONS
19	D2D-based Survival on Sharing for critical communications. <i>Wireless Networks</i> , 2018, 24, 2283-2295.	3.0	8
20	Ten Commandments of Emerging 5G Networks. <i>Wireless Personal Communications</i> , 2018, 98, 2591-2621.	2.7	18
21	Video Delivery Architecture for Hierarchical HetNet: HH-D2D Caching. <i>IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India)</i> , 2018, 35, 494-505.	3.2	0
22	BiSON: A Bioinspired Self-Organizing Network for Dynamic Auto-Configuration in 5G Wireless. <i>Wireless Communications and Mobile Computing</i> , 2018, 2018, 1-13.	1.2	5
23	D2D-Based Survival on Sharing: For Enhanced Disaster Time Connectivity. <i>IEEE Technology and Society Magazine</i> , 2018, 37, 64-73.	0.8	2
24	Discount Interference Pricing Mechanism for Data Offloading in D2D Communications. <i>IEEE Communications Letters</i> , 2018, 22, 1688-1691.	4.1	12
25	3B-ARA: Bandwidth, Buffer, and Battery Aware Rate Adaptation for Dynamic HTTP Streaming. <i>IEEE Communications Letters</i> , 2018, 22, 962-965.	4.1	0
26	A Survey on 5G Network Technologies from Social Perspective. <i>IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India)</i> , 2018, 35, 494-505.	3.2	31
27	Device-to-Device Communication from Control and Frequency Perspective: A Composite Review. <i>IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India)</i> , 2017, 34, 286-297.	3.2	8
28	Efficient IoT Gateway over 5G Wireless: A New Design with Prototype and Implementation Results. <i>IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India)</i> , 2017, 34, 286-297.		72
29	Efficient 5G Small Cell Planning With eMBMS for Optimal Demand Response in Smart Grids. <i>IEEE Transactions on Industrial Informatics</i> , 2017, 13, 1471-1481.	11.3	49
30	PPT: A Push Pull Traffic Algorithm to Improve QoS Provisioning in IoT-NDN Environment. <i>IEEE Communications Letters</i> , 2017, 21, 1417-1420.	4.1	21
31	Hybrid Directional Discontinuous Reception (HD-DRX) for 5G Communication. <i>IEEE Communications Letters</i> , 2017, 21, 1421-1424.	4.1	40
32	Energy-Efficient BBU Allocation for Green C-RAN. <i>IEEE Communications Letters</i> , 2017, 21, 1637-1640.	4.1	31
33	Convergence of WSN and cognitive cellular network using maximum frequency reuse. <i>IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India)</i> , 2017, 34, 286-297.	2.2	9
34	Reliable Relay: Autonomous Social D2D Paradigm for 5G LoS Communications. <i>IEEE Communications Letters</i> , 2017, 21, 1593-1596.	4.1	22
35	Multilevel Hierarchical Caching for Efficient Wireless Video Distribution. <i>IETE Journal of Research</i> , 2017, 63, 260-267.	2.6	1
36	5G Wireless with Cognitive Radio and Massive IoT. <i>IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India)</i> , 2018, 35, 494-505.	3.2	13

#	ARTICLE	IF	CITATIONS
37	Extending Video Playback Time With Limited Residual Battery. IEEE Communications Letters, 2016, 20, 1659-1662.	4.1	4
38	Traffic-Aware Cloud RAN: A Key for Green 5G Networks. IEEE Journal on Selected Areas in Communications, 2016, 34, 1010-1021.	14.0	59
39	RoBiN: Random Access using Border Routers in Cellular Networks. Mobile Networks and Applications, 2016, 21, 620-634.	3.3	0
40	An Exhaustive Review on Internet of Things from Korea's Perspective. Wireless Personal Communications, 2016, 90, 1463-1486.	2.7	13
41	Efficient Cell Outage Detection in 5G HetNets Using Hidden Markov Model. IEEE Communications Letters, 2016, 20, 562-565.	4.1	37
42	Next Generation 5G Wireless Networks: A Comprehensive Survey. IEEE Communications Surveys and Tutorials, 2016, 18, 1617-1655.	39.4	2,413
43	NEST: novel eMBMS scheduling technique. Wireless Networks, 2016, 22, 1837-1850.	3.0	2
44	Energy Efficiency in Wireless Networks – a Composite Review. IETE Technical Review (Institution of) Tj ETQq0 0 0 rgBT /Overlock 10 T	3.2	14
45	Exploiting multicast in LTE networks for smart grids demand response. , 2015, , .		9
46	Location-based social video sharing over next generation cellular networks. , 2015, 53, 136-143.		20
47	Cognitive Radio Enabled Wireless Sensor Networks and Survivability Challenges. International Journal of Distributed Sensor Networks, 2015, 11, 872821.	2.2	1
48	LTE multicast communication for demand response in smart grids. , 2014, , .		10
49	Stochastic hourly load forecasting for smart grids in Korea using NARX model. , 2014, , .		4
50	Auto-configuration of Physical Cell ID in LTE femtocellular systems using Self Organizing Networks. Wireless Networks, 2014, 20, 1107-1120.	3.0	4
51	An efficient hybrid scheduling scheme for impatience user in eMBMS over LTE. , 2013, , .		6
52	Optimal Tracking Area Update in LTE Systems. IEICE Transactions on Communications, 2010, E93-B, 2215-2218.	0.7	0
53	Near-Optimal Tracking for Residents' Comfort in Context-Aware Heterogeneous Smart Environments. Computer Journal, 2009, 52, 878-889.	2.4	0
54	<i>QuEST</i>: a QoS-based energy efficient sensor routing protocol. Wireless Communications and Mobile Computing, 2009, 9, 417-426.	1.2	18

#	ARTICLE	IF	CITATIONS
55	A New Channel-Aware Rate Adaptation in High Speed WLANs. IEICE Transactions on Communications, 2009, E92-B, 2345-2348.	0.7	3
56	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