Ranjan Bose

List of Publications by Year in descending order

83 papers	**841** citations	687363 **13** h-index	552781 **26** g-index
83 all docs	**83** docs citations	**83** times ranked	**845** citing authors

#	Article	IF	Citations
1	Joint-Transformation-Based Detection of False Data Injection Attacks in Smart Grid. IEEE Transactions on Industrial Informatics, 2018, 14, 89-97.	11.3	113
2	Virtual Labs Project: A Paradigm Shift in Internet-Based Remote Experimentation. IEEE Access, 2013, 1, 718-725.	4.2	79
3	Secrecy Outage of Dual-Hop Regenerative Multi-Relay System With Relay Selection. IEEE Transactions on Wireless Communications, 2015, 14, 4614-4625.	9.2	58
4	A Framework for Energy-Consumption-Based Design Space Exploration for Wireless Sensor Nodes. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2009, 28, 1017-1024.	2.7	52
5	Integrated energy analysis of error correcting codes and modulation for energy efficient wireless sensor nodes. IEEE Transactions on Wireless Communications, 2009, 8, 5348-5355.	9.2	47
6	Entropyâ€based electricity theft detection in AMI network. IET Cyber-Physical Systems: Theory and Applications, 2018, 3, 99-105.	3.3	42
7	Secrecy Outage of Dual-Hop AF Relay System With Relay Selection Without Eavesdropper's CSI. IEEE Communications Letters, 2014, 18, 1759-1762.	4.1	37
8	Energy theft detection for AMI using principal component analysis based reconstructed data. IET Cyber-Physical Systems: Theory and Applications, 2019, 4, 179-185.	3.3	36
9	Novel Public Key Encryption Technique Based on Multiple Chaotic Systems. Physical Review Letters, 2005, 95, 098702.	7.8	34
10	Lean CLEAN: Deconvolution Algorithm for Radar Imaging of Contiguous Targets. IEEE Transactions on Aerospace and Electronic Systems, 2011, 47, 2190-2199.	4.7	25
11	Secrecy performance of dualâ€hop decodeâ€andâ€forward relay system with diversity combining at the eavesdropper. IET Communications, 2016, 10, 904-914.	2.2	24
12	PCA based electricity theft detection in advanced metering infrastructure. , 2017, , .		20
13	Exploiting Mapping Diversity for Enhancing Security at Physical Layer in the Internet of Things. IEEE Internet of Things Journal, 2019, 6, 532-544.	8.7	16
14	Alternate measure of information useful for DNA sequences. Physical Review E, 2011, 83, 051918.	2.1	15
15	Energy theft detection in advanced metering infrastructure. , 2018, , .		14
16	Techniques to improve the CLEAN deconvolution algorithm. Journal of the Franklin Institute, 1995, 332, 535-553.	3.4	12
17	Rateless-Code-Based Secure Cooperative Transmission Scheme for Industrial IoT. IEEE Internet of Things Journal, 2020, 7, 6550-6565.	8.7	11
18	Optimal Green Hybrid Attacks in Secure IoT. IEEE Wireless Communications Letters, 2020, 9, 457-460.	5.0	11

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19	Increasing the secrecy capacity by cooperation in wireless networks. , 2009, , .		10
20	Secrecy performance of threshold-based cognitive relay network with diversity combining. Journal of Communications and Networks, 2018, 20, 383-395.	2.6	9
21	Fair Subcarrier Allocation for Securing OFDMA in IoT Against Full-Duplex Hybrid Attacker. IEEE Transactions on Information Forensics and Security, 2021, 16, 2898-2911.	6.9	9
22	Multi-User Relaying of High-Rate Space–Time Code in Cooperative Networks. Wireless Personal Communications, 2010, 54, 69-81.	2.7	8
23	On detecting false data injection with limited network information using transformation based statistical techniques. , 2017, , .		8
24	Effects of CSI Knowledge on Secrecy of Threshold-Selection Decode-and-Forward Relaying. IEEE Access, 2017, 5, 19393-19408.	4.2	7
25	Active CLEAN: A Modified CLEAN Algorithm for HRRPs of Contiguous Targets with Thinned Spectrum. IEEE Transactions on Aerospace and Electronic Systems, 2012, 48, 930-939.	4.7	6
26	Joint power allocation and routing optimization in BER constrained multihop wireless networks. , 2013, , .		6
27	Secrecy Outage of Dual-Hop Amplify-and-Forward System and Its Application to Relay Selection. , 2014, , .		6
28	Joint optimal power allocation and relay location for decode–and–forward multi–hop relaying over log–normal channel. IET Communications, 2015, 9, 2197-2207.	2.2	6
29	Secrecy performance of threshold–based decode–and–forward cooperative cognitive radio network. IET Communications, 2017, 11, 1396-1406.	2.2	6
30	Secrecy outage of threshold-based cooperative relay network with and without direct links. Eurasip Journal on Information Security, 2018, 2018, .	3.1	6
31	Channel-Aware Artificial Intersymbol Interference for Enhancing Physical Layer Security. IEEE Communications Letters, 2019, 23, 1182-1185.	4.1	6
32	Relay Strategies for High Rate Space-Time Code in Cooperative MIMO Networks. , 2007, , .		5
33	Alternate entropy measure for assessing volatility in financial markets. Physical Review E, 2012, 86, 056112.	2.1	5
34	Entropy based image segmentation with wavelet compression for energy efficient LTE systems. , 2016, , .		5
35	Secure Cooperative Transmission in Rateless-Coded Environment Using TAS and Artificial Noise. IEEE Transactions on Vehicular Technology, 2019, 68, 12416-12421.	6.3	5
36	QVP–based relay selection to improve secrecy for rateless–codes in delay–constrained systems. IET Communications, 2019, 13, 26-35.	2.2	5

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37	System-Level Design Space Exploration Methodology for Energy-Efficient Sensor Node Configurations: An Experimental Validation. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2012, 31, 586-596.	2.7	4
38	Novel hardware implementation of LLR-based non-binary LDPC decoders. , 2013, , .		4
39	Joint Optimal Power Allocation and Relay Location for Amplify-and-Forward Multihop Relaying over Lognormal Channel. , 2013, , .		4
40	Exact BER analysis of DCM for multiband OFDM-UWB system over uncorrelated Nakagami-m fading channels. , 2014, , .		4
41	Partner Selection Based on Optimal Power Allocation for Lifetime Maximization in Cooperative Networks. IEEE Transactions on Vehicular Technology, 2017, 66, 3088-3102.	6.3	4
42	QoSâ€aware stochastic spatial PLS model for analysing secrecy performance under eavesdropping and jamming. IET Communications, 2020, 14, 3735-3747.	2.2	4
43	Genetic Algorithm based Smart Antenna design for UWB Beamforming. , 2007, , .		3
44	Virtual Wireless Lab — Concept, design and implementation. , 2012, , .		3
45	An alternate method for calculating average probability of error in log-normal channel for UWB. , 2013, , .		3
46	Information Transfer between Generations Linked to Biodiversity in Rock-Paper-Scissors Games. International Journal of Biodiversity, 2015, 2015, 1-9.	0.7	3
47	Green design for smart antenna system using iterative beamforming algorithms. , 2015, , .		3
48	Secrecy Outage of Dual-Hop Amplify-and-Forward Relay System with Diversity Combining at the Eavesdropper. Wireless Personal Communications, 2017, 97, 539-563.	2.7	3
49	ABATe: Automatic Behavioral Abstraction Technique to Detect Anomalies in Smart Cyber-Physical Systems. IEEE Transactions on Dependable and Secure Computing, 2022, 19, 1673-1686.	5.4	3
50	Power allocation strategy using node cooperation for transmit power minimization under correlated fading. , 2013, , .		2
51	Joint routing and power allocation optimization in outage constrained multihop wireless networks. , 2013, , .		2
52	Clustering of Giant Virus-DNA Based on Variations in Local Entropy. Viruses, 2014, 6, 2259-2267.	3.3	2
53	Beamforming of ultra wideband signals in an IEEE 802.15.3a channel environment. , 2014, , .		2
54	Power analysis of LTE system for uplink scenario. , 2014, , .		2

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55	Energy-aware relay selection and power allocation for multiple-user cooperative networks. , 2016, , .		2
56	Entropy Based Image Segmentation for Energy Efficient LTE System with Cloud. Wireless Personal Communications, 2017, 92, 1145-1162.	2.7	2
57	Minimizing Energy Theft by Statistical Distance based Theft Detector in AMI. , 2018, , .		2
58	Secure Energy Efficiency with Poisson Point Process Distributed Jammers. , 2019, , .		2
59	Fairness-aware Subcarrier Allocation to Combat full duplex Eavesdropping and Jamming attacks in IoT. , 2020, , .		2
60	Physical layer security in UWB networks. , 2011, , .		1
61	An information-theoretic approach to analyzing CLEAN. IEEE Transactions on Aerospace and Electronic Systems, 2014, 50, 1673-1679.	4.7	1
62	Outage optimal relay selection strategy using destination-based jamming for secure communication in amplify-and-forward relay networks. , 2014, , .		1
63	Joint constellation size, energy allocation and relay location optimisation for energy‐efficient DF relaying. IET Communications, 2016, 10, 1282-1293.	2.2	1
64	Analyzing secrecy of delay-constrained system in cooperative relay environment using rateless codes. , 2017, , .		1
65	Secrecy outage performance of cooperativ e relay network with diversity combining. , 2017, , .		1
66	Jammer Assisted SEE Maximization in Decode-and-Forward Relay Network. , 2018, , .		1
67	Stackelberg game for price and power control in secure cooperative relay network. IET Cyber-Physical Systems: Theory and Applications, 2019, 4, 58-67.	3.3	1
68	Novel QoS-Aware Physical Layer Security Analysis Considering Random Inter-Node Distances. , 2019, , .		1
69	Precoding-Aided Spatial Modulation Assisted Joint Two-Tier Downlink Reception. IEEE Transactions on Wireless Communications, 2020, 19, 3332-3345.	9.2	1
70	Analyzing Secrecy Outage in Hybrid Full-Duplex Attack While Exploiting CSI of Legitimate Link. IEEE Wireless Communications Letters, 2021, 10, 1454-1458.	5.0	1
71	Secrecy Outage Performance of Cognitive Radio Network with Selection Combining at Eavesdropper. Recent Advances in Computer Science and Communications, 2020, 13, 987-998.	0.7	1
72	A framework for analysis of optimal power solutions for smart antennas. , 2011, , .		0

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73	Range extension in a UWB relay channel using non-ideal nodes. , 2011, , .		0
74	Performance of a Multi-hop UWB Transmitted Reference System using Decode-and-Forward Relays. Wireless Personal Communications, 2014, 77, 1801-1814.	2.7	0
75	Duopoly models for power trading in secure cooperative relay networks. , 2016, , .		0
76	Secrecy outage of cooperative relay network with and without eavesdropper's direct link. , 2017, , .		0
77	CSI Knowledge Effect on Secrecy of Threshold-Based Underlay Cognitive Decode-and-Forward Relaying. , 2018, , .		0
78	Secure Data Aggregation with Mean Field Extensive Game Theoretic Framework. , 2018, , .		0
79	Power Trading in Secure Cooperative Relay Network with Cournot Duopoly Model. , 2018, , .		0
80	Secure Communication With Energy-Harvesting Buffer-Aided Jammer. IEEE Open Journal of the Communications Society, 2021, 2, 1799-1808.	6.9	0
81	NOMA Combined with RC for Reliable and Secure Transmission in a Delay-Constrained System. IEEE Wireless Communications Letters, 2021, , 1-1.	5.0	0
82	Energy-Efficient Joint Power Allocation and Relay Selection in Bit Error Rate Constrained Two-Way Relay Network. International Journal of Interdisciplinary Telecommunications and Networking, 2015, 7, 1-14.	0.3	0
83	PAPR Minimization Technique in MIMO V2V Transmission using SVM-based Channel Estimation. , 2020, , .		0