

Ranjan Bose

List of Publications by Year in descending order

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83
papers

841
citations

687363

13
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552781

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83
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83
times ranked

845
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Secure Communication With Energy-Harvesting Buffer-Aided Jammer. IEEE Open Journal of the Communications Society, 2021, 2, 1799-1808.	6.9	0
4	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
5	NOMA Combined with RC for Reliable and Secure Transmission in a Delay-Constrained System. IEEE Wireless Communications Letters, 2021, , 1-1.	5.0	0
6	Fairness-aware Subcarrier Allocation to Combat full duplex Eavesdropping and Jamming attacks in IoT. , 2020, , .		2
7	Precoding-Aided Spatial Modulation Assisted Joint Two-Tier Downlink Reception. IEEE Transactions on Wireless Communications, 2020, 19, 3332-3345.	9.2	1
8	Rateless-Code-Based Secure Cooperative Transmission Scheme for Industrial IoT. IEEE Internet of Things Journal, 2020, 7, 6550-6565.	8.7	11
9	Optimal Green Hybrid Attacks in Secure IoT. IEEE Wireless Communications Letters, 2020, 9, 457-460.	5.0	11
10	PAPR Minimization Technique in MIMO V2V Transmission using SVM-based Channel Estimation. , 2020, , .		0
11	QoS-aware stochastic spatial PLS model for analysing secrecy performance under eavesdropping and jamming. IET Communications, 2020, 14, 3735-3747.	2.2	4
12	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
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	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
15	Novel QoS-Aware Physical Layer Security Analysis Considering Random Inter-Node Distances. , 2019, , .		1
16	Secure Cooperative Transmission in Rateless-Coded Environment Using TAS and Artificial Noise. IEEE Transactions on Vehicular Technology, 2019, 68, 12416-12421.	6.3	5
17	Secure Energy Efficiency with Poisson Point Process Distributed Jammers. , 2019, , .		2
18	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

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19	Channel-Aware Artificial Intersymbol Interference for Enhancing Physical Layer Security. IEEE Communications Letters, 2019, 23, 1182-1185.	4.1	6
20	QVPC-based relay selection to improve secrecy for rateless codes in delay-constrained systems. IET Communications, 2019, 13, 26-35.	2.2	5
21	Joint-Transformation-Based Detection of False Data Injection Attacks in Smart Grid. IEEE Transactions on Industrial Informatics, 2018, 14, 89-97.	11.3	113
22	Jammer Assisted SEE Maximization in Decode-and-Forward Relay Network. , 2018, , .		1
23	Minimizing Energy Theft by Statistical Distance based Theft Detector in AMI. , 2018, , .		2
24	Secrecy performance of threshold-based cognitive relay network with diversity combining. Journal of Communications and Networks, 2018, 20, 383-395.	2.6	9
25	CSI Knowledge Effect on Secrecy of Threshold-Based Underlay Cognitive Decode-and-Forward Relaying. , 2018, , .		0
26	Secrecy outage of threshold-based cooperative relay network with and without direct links. Eurasip Journal on Information Security, 2018, 2018, , .	3.1	6
27	Secure Data Aggregation with Mean Field Extensive Game Theoretic Framework. , 2018, , .		0
28	Power Trading in Secure Cooperative Relay Network with Cournot Duopoly Model. , 2018, , .		0
29	Energy theft detection in advanced metering infrastructure. , 2018, , .		14
30	Entropy-based electricity theft detection in AMI network. IET Cyber-Physical Systems: Theory and Applications, 2018, 3, 99-105.	3.3	42
31	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
32	Effects of CSI Knowledge on Secrecy of Threshold-Selection Decode-and-Forward Relaying. IEEE Access, 2017, 5, 19393-19408.	4.2	7
33	Secrecy performance of threshold-based decode-and-forward cooperative cognitive radio network. IET Communications, 2017, 11, 1396-1406.	2.2	6
34	Entropy Based Image Segmentation for Energy Efficient LTE System with Cloud. Wireless Personal Communications, 2017, 92, 1145-1162.	2.7	2
35	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
36	On detecting false data injection with limited network information using transformation based statistical techniques. , 2017, , .		8

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37	Analyzing secrecy of delay-constrained system in cooperative relay environment using rateless codes. , 2017, , .		1
38	Secrecy outage performance of cooperative relay network with diversity combining. , 2017, , .		1
39	PCA based electricity theft detection in advanced metering infrastructure. , 2017, , .		20
40	Secrecy outage of cooperative relay network with and without eavesdropper's direct link. , 2017, , .		0
41	Joint constellation size, energy allocation and relay location optimisation for energy-efficient DF relaying. IET Communications, 2016, 10, 1282-1293.	2.2	1
42	Duopoly models for power trading in secure cooperative relay networks. , 2016, , .		0
43	Energy-aware relay selection and power allocation for multiple-user cooperative networks. , 2016, , .		2
44	Entropy based image segmentation with wavelet compression for energy efficient LTE systems. , 2016, , .		5
45	Secrecy performance of dual-hop decode-and-forward relay system with diversity combining at the eavesdropper. IET Communications, 2016, 10, 904-914.	2.2	24
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	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
48	Green design for smart antenna system using iterative beamforming algorithms. , 2015, , .		3
49	Secrecy Outage of Dual-Hop Regenerative Multi-Relay System With Relay Selection. IEEE Transactions on Wireless Communications, 2015, 14, 4614-4625.	9.2	58
50	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
51	Exact BER analysis of DCM for multiband OFDM-UWB system over uncorrelated Nakagami-m fading channels. , 2014, , .		4
52	An information-theoretic approach to analyzing CLEAN. IEEE Transactions on Aerospace and Electronic Systems, 2014, 50, 1673-1679.	4.7	1
53	Clustering of Giant Virus-DNA Based on Variations in Local Entropy. Viruses, 2014, 6, 2259-2267.	3.3	2
54	Beamforming of ultra wideband signals in an IEEE 802.15.3a channel environment. , 2014, , .		2

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55	Power analysis of LTE system for uplink scenario. , 2014, , .		2
56	Secrecy Outage of Dual-Hop Amplify-and-Forward System and Its Application to Relay Selection. , 2014, , .		6
57	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
58	Outage optimal relay selection strategy using destination-based jamming for secure communication in amplify-and-forward relay networks. , 2014, , .		1
59	Performance of a Multi-hop UWB Transmitted Reference System using Decode-and-Forward Relays. Wireless Personal Communications, 2014, 77, 1801-1814.	2.7	0
60	Novel hardware implementation of LLR-based non-binary LDPC decoders. , 2013, , .		4
61	Joint Optimal Power Allocation and Relay Location for Amplify-and-Forward Multihop Relaying over Lognormal Channel. , 2013, , .		4
62	Joint power allocation and routing optimization in BER constrained multihop wireless networks. , 2013, , .		6
63	Power allocation strategy using node cooperation for transmit power minimization under correlated fading. , 2013, , .		2
64	Virtual Labs Project: A Paradigm Shift in Internet-Based Remote Experimentation. IEEE Access, 2013, 1, 718-725.	4.2	79
65	Joint routing and power allocation optimization in outage constrained multihop wireless networks. , 2013, , .		2
66	An alternate method for calculating average probability of error in log-normal channel for UWB. , 2013, , .		3
67	Alternate entropy measure for assessing volatility in financial markets. Physical Review E, 2012, 86, 056112.	2.1	5
68	Virtual Wireless Lab — Concept, design and implementation. , 2012, , .		3
69	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
70	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
71	A framework for analysis of optimal power solutions for smart antennas. , 2011, , .		0
72	Physical layer security in UWB networks. , 2011, , .		1

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73	Range extension in a UWB relay channel using non-ideal nodes. , 2011, , .		0
74	Lean CLEAN: Deconvolution Algorithm for Radar Imaging of Contiguous Targets. IEEE Transactions on Aerospace and Electronic Systems, 2011, 47, 2190-2199.	4.7	25
75	Alternate measure of information useful for DNA sequences. Physical Review E, 2011, 83, 051918.	2.1	15
76	Multi-User Relaying of High-Rate Space-Time Code in Cooperative Networks. Wireless Personal Communications, 2010, 54, 69-81.	2.7	8
77	Increasing the secrecy capacity by cooperation in wireless networks. , 2009, , .		10
78	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
79	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
80	Relay Strategies for High Rate Space-Time Code in Cooperative MIMO Networks. , 2007, , .		5
81	Genetic Algorithm based Smart Antenna design for UWB Beamforming. , 2007, , .		3
82	Novel Public Key Encryption Technique Based on Multiple Chaotic Systems. Physical Review Letters, 2005, 95, 098702.	7.8	34
83	Techniques to improve the CLEAN deconvolution algorithm. Journal of the Franklin Institute, 1995, 332, 535-553.	3.4	12