

SanjayDharRoy

List of Publications by Year in descending order

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175
papers

923
citations

687363

13
h-index

752698

20
g-index

176
all docs

176
docs citations

176
times ranked

571
citing authors

#	ARTICLE	IF	CITATIONS
1	Detection performance of cooperative spectrum sensing with hard decision fusion in fading channels. International Journal of Electronics, 2016, 103, 297-321.	1.4	50
2	Throughput of a Cognitive Radio Network With Energy-Harvesting Based on Primary User Signal. IEEE Wireless Communications Letters, 2016, 5, 136-139.	5.0	43
3	Throughput of an Energy Harvesting Cognitive Radio Network Based on Prediction of Primary User. IEEE Transactions on Vehicular Technology, 2017, 66, 8119-8128.	6.3	39
4	Censoring-Based Cooperative Spectrum Sensing with Improved Energy Detectors and Multiple Antennas in Fading Channels. IEEE Transactions on Aerospace and Electronic Systems, 2018, 54, 537-553.	4.7	30
5	Performance Evaluation of Cooperative Spectrum Sensing Scheme with Censoring of Cognitive Radios in Rayleigh Fading Channel. Wireless Personal Communications, 2013, 70, 1409-1424.	2.7	29
6	Signal Strength Ratio Based Vertical Handoff Decision Algorithms in Integrated Heterogeneous Networks. Wireless Personal Communications, 2014, 77, 2565-2585.	2.7	23
7	Physical layer security in cognitive radio network with energy harvesting relay and jamming in the presence of direct link. IET Communications, 2018, 12, 1389-1395.	2.2	22
8	Cooperative spectrum sensing with censoring of cognitive radios in Rayleigh fading under majority logic fusion. , 2013, , .		20
9	Performance of cooperative spectrum sensing with soft data fusion schemes in fading channels. , 2013, , .		19
10	Double threshold-based cooperative spectrum sensing for a cognitive radio network with improved energy detectors. IET Communications, 2015, 9, 2216-2226.	2.2	19
11	Performance of improved energy detector based cooperative spectrum sensing over Hoyt and Rician faded channels. IEICE Communications Express, 2013, 2, 319-324.	0.4	18
12	Secrecy Outage of a Cognitive Radio Network with Selection of Energy Harvesting Relay and Imperfect CSI. Wireless Personal Communications, 2018, 100, 571-586.	2.7	16
13	Performance of cooperative spectrum sensing in fading channels. , 2012, , .		15
14	Outage and SEP of secondary user with imperfect channel estimation and primary user interference. , 2014, , .		15
15	Cooperative Spectrum Sensing with Double Threshold and Censoring in Rayleigh Faded Cognitive Radio Network. Wireless Personal Communications, 2015, 84, 251-271.	2.7	15
16	Secrecy performance of a dual hop cognitive relay network with an energy harvesting relay. , 2016, , .		15
17	Performance of Cognitive Radio Network with Novel Hybrid Spectrum Access Schemes. Wireless Personal Communications, 2016, 91, 541-560.	2.7	14
18	Sensing throughput trade-off for an energy efficient cognitive radio network under faded sensing and reporting channel. International Journal of Communication Systems, 2016, 29, 1208-1218.	2.5	13

#	ARTICLE	IF	CITATIONS
19	Analytical performance of soft data fusion aided spectrum sensing in hybrid terrestrial-satellite networks. International Journal of Satellite Communications and Networking, 2017, 35, 461-480.	1.8	13
20	Primary behaviour based energy harvesting multihop cognitive radio network. IET Communications, 2017, 11, 2466-2475.	2.2	13
21	Performance of energy detection based spectrum sensing in fading channels. , 2011, , .		12
22	Defense Against Spectrum Sensing Data Falsification Attacker in Cognitive Radio Networks. Wireless Personal Communications, 2020, 112, 849-862.	2.7	12
23	PERFORMANCE ANALYSIS OF CELLULAR CDMA IN PRESENCE OF BEAMFORMING AND SOFT HANDOFF. Progress in Electromagnetics Research, 2008, 88, 73-89.	4.4	11
24	Outage analysis for NOMA based energy harvesting relay network with imperfect CSI and transmit antenna selection. IET Communications, 2020, 14, 2240-2249.	2.2	11
25	Outage performance of cognitive relay network with imperfect channel estimation under proactive DF relaying. , 2014, , .		10
26	Received signal strength based vertical handoff algorithm in 3G cellular network. , 2012, , .		9
27	Cooperative spectrum sensing with censoring of cognitive radios in Rayleigh fading channel. , 2012, , .		9
28	Throughput optimization with cooperative spectrum sensing in cognitive radio network. , 2014, , .		9
29	Spectrum sensing with censoring of double threshold based cognitive radios in Rayleigh fading. , 2014, , .		9
30	Qualitative analysis for coverage probability and energy efficiency in cognitive femtocell networks under macrocell infrastructure. Electronics Letters, 2015, 51, 1378-1380.	1.0	9
31	Throughput performance under primary user emulation attack in cognitive radio networks. International Journal of Communication Systems, 2017, 30, e3371.	2.5	9
32	Implementation of relay hopper model for reliable communication of IoT devices in LTE environment through D2D link. , 2018, , .		9
33	Allocation of optimal energy in an energy-harvesting cooperative multi-band cognitive radio network. Wireless Networks, 2020, 26, 1033-1043.	3.0	9
34	Secrecy and throughput performance of an energy harvesting hybrid cognitive radio network with spectrum sensing. Wireless Networks, 2020, 26, 1301-1314.	3.0	9
35	On the coexistence of cognitive radio and cellular networks: An outage analysis. , 2011, , .		8
36	On performance of cooperative spectrum sensing based on improved energy detector with multiple antennas in Hoyt fading channel. , 2013, , .		8

#	ARTICLE	IF	CITATIONS
37	A hybrid cooperative spectrum sensing for cognitive radio networks in presence of fading. , 2015, , .		8
38	Secrecy outage probability with destination assisted jamming in presence of an untrusted relay. , 2016, , .		8
39	Secrecy outage of a multi-relay cooperative communication network with accumulation of harvesting energy at relays. IET Communications, 2019, 13, 2986-2995.	2.2	8
40	Secrecy at Physical Layer in NOMA with Cooperative Jamming. , 2020, , .		8
41	Performance of cooperative spectrum sensing in Rician and Weibull fading channels. , 2011, , .		7
42	Performance of MRC fusion-based cooperative spectrum sensing with censoring of cognitive radios in rayleigh fading channels. , 2013, , .		7
43	Throughput and outage of a wireless energy harvesting based cognitive relay network. , 2016, , .		7
44	Energy Harvesting Based Multihop Relaying in Cognitive Radio Network. Wireless Personal Communications, 2017, 97, 6325-6342.	2.7	7
45	Secrecy outage analysis in a hybrid cognitive relay network with energy harvesting. International Journal of Communication Systems, 2017, 30, e3228.	2.5	7
46	Performance of cooperative spectrum sensing in Hoyt fading channel under hard decision fusion rules. , 2012, , .		6
47	Bit error rate of RS coded BFSK in broadband powerline channels with background Nakagami and impulsive noise. Physical Communication, 2015, 14, 14-23.	2.1	6
48	Mitigating ICI at cell edges in cognitive-femtocell networks through fractional frequency reuse. International Journal of Communication Networks and Distributed Systems, 2016, 16, 162.	0.4	6
49	Performance of cognitive relay network with novel hybrid spectrum access schemes with imperfect CSI. International Journal of Communication Systems, 2016, 29, 1761-1776.	2.5	6
50	Hybrid cooperative spectrum sensing with cyclostationary detection for cognitive radio networks. , 2016, , .		6
51	Secure communication with energy harvesting multiple half-duplex DF relays assisted with jamming. Wireless Networks, 2020, 26, 1151-1164.	3.0	6
52	Throughput of an Energy-Harvesting UAV Assisted Cognitive Radio Network. , 2020, , .		6
53	Performance of Data Services in Cellular CDMA in Presence of Soft handoff and Beamforming. , 2008, , .		5
54	Signal strength ratio based handoff algorithms for cellular networks. , 2008, , .		5

#	ARTICLE	IF	CITATIONS
55	A Timer Based Handoff Algorithm for Multi-Cellular Systems. , 2008, , .		5
56	Performance of joint admission and power control algorithms in Cognitive-CDMA Network. , 2010, , .		5
57	Performance of an adaptive power based CDMA cognitive radio networks. , 2010, , .		5
58	On spectrum sensing in cognitive radio CDMA networks with beamforming. Physical Communication, 2013, 9, 73-87.	2.1	5
59	Cognitive radio CDMA networking with spectrum sensing. International Journal of Communication Systems, 2014, 27, 1582-1600.	2.5	5
60	Frame error rate for single-hop and dual-hop transmissions in 802.15.4 LoWPANs. International Journal of Electronics, 2017, 104, 1413-1426.	1.4	5
61	Two way secure communication with two half-duplex DF relay. , 2017, , .		5
62	Secrecy analysis of a Cognitive Radio Network with an energy harvesting AF relay. , 2017, , .		5
63	Hybrid cooperative spectrum sensing with cyclostationary detector and improved energy detector for cognitive radio networks. , 2017, , .		5
64	Throughput of cognitive radio networks with improved energy detector under security threats. International Journal of Communication Systems, 2018, 31, e3512.	2.5	5
65	Closed-Form Outage Probability Expressions for Multihop Cognitive Radio Network with Best Path Selection Schemes in RF Energy Harvesting Environment. Wireless Personal Communications, 2018, 103, 2197-2212.	2.7	5
66	D2D communication with energy harvesting relays for disaster management. International Journal of Electronics, 2020, 107, 1272-1290.	1.4	5
67	Performance analysis of a cognitive radio network with adaptive RF energy harvesting. International Journal of Electronics Letters, 2021, 9, 114-127.	1.2	5
68	Performance of cooperative spectrum sensing with censoring of cognitive radios in Rayleigh fading channel. , 2011, , .		4
69	Cooperative spectrum sensing with censoring of cognitive radios and improved energy detector under majority logic fusion. , 2012, , .		4
70	Cooperative Spectrum Sensing with Censoring of Improved Energy Detector Based Cognitive Radios in Rayleigh Faded Channel. International Journal of Wireless Information Networks, 2014, 21, 74-88.	2.7	4
71	Cross-layer energy model for beacon-enabled 802.15.4 networks. Journal of Ambient Intelligence and Humanized Computing, 2019, 10, 4209-4224.	4.9	4
72	Secrecy outage in a two-hop decode and forward relay network with accumulated harvested energy. Physical Communication, 2019, 36, 100792.	2.1	4

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73	Physical Layer Security with Non-Linear Energy Harvesting Relay. , 2019, , .		4
74	The effects of channel knowledge on cooperative spectrum sensing in Nakagami-n/q fading channels. Wireless Networks, 2019, 25, 2559-2571.	3.0	4
75	Cooperative Spectrum Sensing with Censoring of Cognitive Radios in Fading Channel Under Majority Logic Fusion. Signals and Communication Technology, 2014, , 133-161.	0.5	4
76	Performance Evaluation of Cognitive Radio CDMA Networks with Spectrum Sensing. , 2010, , .		3
77	Cross-layer energy model for relay assisted 802.15.4 networks in a non-beacon-enabled mode. , 2014, , .		3
78	Outage performance of SU under spectrum sharing with imperfect CSI and primary user interference. , 2014, , .		3
79	Secondary throughput in underlay cognitive radio network with imperfect CSI and energy harvesting relay. , 2015, , .		3
80	Cognitive radio network with continuous energy harvesting. International Journal of Communication Systems, 2017, 30, e3132.	2.5	3
81	The Implications of Cognitive Femtocell Based Spectrum Allocation Over Macrocell Networks. Wireless Personal Communications, 2017, 92, 1125-1143.	2.7	3
82	Performance of cognitive relay network with energy harvesting relay under imperfect CSI. International Journal of Communication Systems, 2018, 31, e3549.	2.5	3
83	Cognitive Machine to Machine Communication with Energy Harvesting in IoT networks. , 2019, , .		3
84	On performance of multihop energy harvesting CRN in the presence of co-channel interferers. International Journal of Electronics Letters, 2022, 10, 1-15.	1.2	3
85	Inter Radio Access Technology [IRAT] Handover Algorithms for Heterogeneous Wireless Networks. Wireless Personal Communications, 2020, 114, 2477-2491.	2.7	3
86	Cross-Layer Energy Model for Non-Beacon-Enabled IEEE 802.15.4 Networks. IEEE Wireless Communications Letters, 2020, , 1-1.	5.0	3
87	SBT (Sense Before Transmit) Based LTE Licenced Assisted Access for 5GHz Unlicensed Spectrum. Wireless Personal Communications, 2021, 119, 2069-2081.	2.7	3
88	Performance Evaluation of Signal Strength Based Handover Algorithms. International Journal of Communications, Network and System Sciences, 2009, 02, 657-663.	0.6	3
89	Outage analysis in presence of correlated interferers in a cognitive-cellular network. , 2010, , .		2
90	Outage analysis in presence of correlated interferers in a cognitive radio CDMA network. International Journal of Communication Networks and Distributed Systems, 2012, 8, 332.	0.4	2

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91	Cooperative spectrum sensing with censoring of cognitive radios in presence of log-normal shadowing under majority logic fusion. , 2012, , .		2
92	Cooperative spectrum sensing with censoring of cognitive radios with majority logic fusion in Hoyt fading. , 2013, , .		2
93	On Performance of Weighted Fusion Based Spectrum Sensing in Fading Channels. Journal of Computational Engineering, 2013, 2013, 1-11.	0.8	2
94	Computation of coverage area of cognitive radio network under shadowed environment with spectrum underlay. , 2014, , .		2
95	Spectrum sharing networks with imperfect channel state information. , 2015, , .		2
96	Throughput analysis of multiple cognitive radio networks. , 2016, , .		2
97	Joint impact of sensing time and IED parameter on the performance of an energy efficient cognitive radio system. International Journal of Communication Systems, 2016, 29, 2262-2278.	2.5	2
98	Cooperative spectrum sensing based on dynamic clustering with improved energy detector. , 2016, , .		2
99	Combined diversity and improved energy detection in cooperative spectrum sensing with faded reporting channels. Journal of King Saud University - Computer and Information Sciences, 2016, 28, 170-183.	3.9	2
100	Throughput and Outage Probability of Wireless Energy Harvesting Based Cognitive DF Relaying Network. Materials Today: Proceedings, 2017, 4, 10304-10308.	1.8	2
101	Performance of different power control schemes for a hybrid LTE system with channel impairment. , 2017, , .		2
102	Performance of an Energy harvesting Cooperative Cognitive Radio Network with Hybrid Spectrum Access Scheme. Wireless Personal Communications, 2018, 99, 1503-1520.	2.7	2
103	Multi slot-throughput tradeoff in an improved energy detector based faded cognitive radio network. Wireless Networks, 2018, 24, 2539-2552.	3.0	2
104	Enhanced Throughput Performance under Primary User Emulation Attack in Cognitive Radio Networks by Optimal Threshold Selection Approach. , 2018, , .		2
105	Secrecy performance of a two-way communication network with two half-duplex DF relays. IET Communications, 2019, 13, 620-629.	2.2	2
106	Secure communication in cognitive radio networks with untrusted AF relays. International Journal of Communication Systems, 2019, 32, e3919.	2.5	2
107	Partial Relay Selection in Energy Harvesting Based NOMA Network with Imperfect CSI. Wireless Personal Communications, 2021, 120, 3153-3169.	2.7	2
108	Performance Analysis of Handoff Algorithms for Multihop Ad Hoc Wireless Network. , 2008, , .		1

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109	Forward link performance of packet data in presence of soft handoff in cellular CDMA. , 2008, , .		1
110	Analysis of soft handoff algorithm for multi-cellular systems: A finite integral approach. International Journal of Communication Systems, 2009, 22, 863-884.	2.5	1
111	Effects of multicell beamforming on downlink data services in cellular CDMA. International Journal of Communication Networks and Distributed Systems, 2010, 5, 375.	0.4	1
112	Forward link performance of packet data with LDPC in cellular CDMA. , 2010, , .		1
113	Gradual Removal of Secondary User in Cognitive-CDMA Spectrum Underlay Network. , 2011, , .		1
114	On the data performance in tactical WLAN with signal strength ratio based handoff algorithms. , 2012, , .		1
115	Cooperative spectrum sensing with censoring of cognitive radios and improved energy detector under LRT fusion. , 2012, , .		1
116	Performance of cooperative spectrum sensing using an improved energy detector in fading channels. , 2012, , .		1
117	Improved energy detector with selection combining in cognitive radio network. , 2012, , .		1
118	Cooperative spectrum sensing in cognitive radio network with power control. , 2012, , .		1
119	Performance Improvement of Outage Users at Cell Edges through Cognitive-Femtocell Deployment over Macrocell Network. , 2014, , .		1
120	Combined censoring and weighted fusion based spectrum sensing with improved energy detector. , 2014, , .		1
121	Relay based cooperative spectrum sensing in cognitive radio network. , 2014, , .		1
122	Outage and SEP Performance of Secondary User in Spectrum Sharing with Imperfect Channel Estimation. , 2014, , .		1
123	On performance of a weighted cooperative spectrum sensing with censoring of cognitive radios in Rayleigh fading. International Journal of Communication Networks and Distributed Systems, 2014, 12, 202.	0.4	1
124	Outage analysis of a secondary user in overlay/underlay model. , 2015, , .		1
125	Cross-layer dual-hop energy model for 802.15.4 networks in a beacon-enabled mode. , 2015, , .		1
126	Performance analysis of power controlled cognitive radio with imperfect Nakagami-m fading CSI. , 2016, , .		1

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127	Multi-slot based spectrum sensing with improved energy detector for cognitive radio network in presence of Rayleigh fading. Computers and Electrical Engineering, 2016, 56, 75-84.	4.8	1
128	Outage performance of secondary user in cognitive relay network with multiple PUs. , 2016, , .		1
129	Joint impact of sensing time and SPRF parameter on the performance of a continuous energy harvesting cooperative cognitive radio network. International Journal of Communication Systems, 2017, 30, e3239.	2.5	1
130	Outage analysis of a multihop cognitive network with energy harvesting from a primary cluster. , 2017, , .		1
131	Enhanced Throughput Performance of Cognitive Radio Networks under Primary User Emulation Attack with Spectrum Prediction. , 2017, , .		1
132	Secrecy Performance of Two-Way Communication in CRN with Half-Duplex AF Relay under Eavesdropper Attacking. , 2018, , .		1
133	Total Error Reduction in Presence of Malicious User in a Cognitive Radio Network. , 2018, , .		1
134	Secrecy outage probability of a two-way cooperative network with an energy harvesting untrusted AF relay. CSI Transactions on ICT, 2018, 6, 129-136.	1.0	1
135	Radial Sub-band Allocation with Downlink Interference Mitigation in Macro-Femto Environment. Wireless Personal Communications, 2019, 106, 955-969.	2.7	1
136	Single CCA for IEEE 802.15.4 networks: a cross layer energy model. IET Networks, 2019, 8, 203-210.	1.8	1
137	Two-Way Secure Communication with Multiple Untrusted Half-Duplex AF Relays. Wireless Personal Communications, 2020, 110, 2045-2064.	2.7	1
138	Outage Probability of a Cellular IoT Network. , 2020, , .		1
139	Physical Layer Security in Bidirectional Communication with SWIPT. Procedia Computer Science, 2020, 171, 1093-1101.	2.0	1
140	Outage and throughput performance of a multihop network with an adaptive power splitting-based energy harvesting. International Journal of Electronics Letters, 2021, 9, 403-412.	1.2	1
141	Secondary Network Throughput Analysis Applying SFR in OFDMA-CR Networks. Advances in Intelligent Systems and Computing, 2016, , 293-303.	0.6	1
142	Physical Layer Security in Cognitive Cooperative Radio Network with Energy Harvesting DF Relay Assisted with Cooperative Jamming. Lecture Notes in Electrical Engineering, 2020, , 119-129.	0.4	1
143	Performance of a cognitive device-to-device network in disaster situation under a collision constraint. International Journal of Communication Systems, 0, , .	2.5	1
144	Closed-form analysis for performance evaluation of soft handoff. , 2008, , .		0

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145	Performance of Packet Data with Truncated Power Control and Truncated ARQ in Presence of Soft Handoff in Cellular CDMA. , 2008, , .		0
146	Performance of Cognitive Radio CDMA networks with secondary user removal in spectrum underlay. , 2010, , .		0
147	On the data services of secondary user with primary exclusive region. , 2010, , .		0
148	Throughput/delay performance of secondary user in spectrum underlay. , 2010, , .		0
149	Reverse link performance of packet data with LDPC and soft handoff in cellular CDMA. , 2010, , .		0
150	Performance of MBMS with minimum SINR algorithm. , 2010, , .		0
151	Downlink multimedia services in CDMA network with fountain code and soft handoff. , 2010, , .		0
152	A new algorithm for admission control of secondary users in CDMA based Cognitive Radio Network. , 2010, , .		0
153	On the outage performance of a CR user in presence of Rayleigh fading and shadowing. , 2012, , .		0
154	Effect on the capacity of a cognitive radio based central access network in different fading distributions. , 2012, , .		0
155	Performance of weighted cooperative spectrum sensing schemes in fading channels. , 2012, , .		0
156	Effects of primary user interference and channel estimation errors on ergodic capacity of secondary user. , 2014, , .		0
157	Optimum required overlapping ratio of adjacent radio cell coverage of WLANs. International Journal of Wireless and Mobile Computing, 2014, 7, 599.	0.2	0
158	Functionality analysis of centralized CR network with integrated femtocell under the presence of PU. , 2015, , .		0
159	Implementing a flexible testbed using dynamic FFR scheme in OFDMA based cognitive radio networks. , 2016, , .		0
160	Outage probability analysis of a secondary user in an underlay dual hop cognitive amplify and forward relay network. Perspectives in Science, 2016, 8, 117-120.	0.6	0
161	Secrecy outage probability of dual hop amplify and forward relay in presence of an eavesdropper. , 2017, , .		0
162	Novel Interference Modelling in Multicellular D2D Network. , 2017, , .		0

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163	An analytical model of sequential hypothesis estimation for femtocell network optimisation. International Journal of Electronics Letters, 2018, 6, 242-248.	1.2	0
164	Comparative throughput study of energy harvesting CR network with adaptive hybrid relay. CSI Transactions on ICT, 2018, 6, 179-185.	1.0	0
165	Physical Layer Security under Accumulated Harvested Energy from RF Source. , 2019, , .		0
166	Secrecy Performance of CCRN with an EHAF Relay under Source and Destination Jamming. International Journal of Communication Systems, 2019, 32, e3880.	2.5	0
167	Handoff Analysis in 5G Small Cell Network. , 2020, , .		0
168	Secrecy analysis of a Cognitive Radio Network with an adaptive path selection based transmission scheme and JTAPS relay. AEU - International Journal of Electronics and Communications, 2020, 123, 153258.	2.9	0
169	A UAV based Multi-hop D2D Network for Disaster Management. , 2021, , .		0
170	Performance Analysis of a Cognitive Radio Network Under Energy Harvesting from Primary User Emulation Attacker. Wireless Personal Communications, 2021, 121, 2181.	2.7	0
171	Handover initiation algorithm based on combined signal strength measurements and distance. , 2007, , .		0
172	Cooperative Spectrum Sensing with Censoring of Cognitive Radios and MRC-Based Fusion in Fading and Shadowing Channels. Advances in Wireless Technologies and Telecommunication Book Series, 2015, , 38-67.	0.4	0
173	Stochastic Geometry Based Handover Modelling in Two-tier Femtocell Networks. International Journal of Sensors, Wireless Communications and Control, 2017, 7, .	0.7	0
174	Spectrum Sensing in Cognitive Radio Networks Under Security Threats and Hybrid Spectrum Access. EAI/Springer Innovations in Communication and Computing, 2019, , 187-207.	1.1	0
175	Cooperative Spectrum Sensing Under Double Threshold With Censoring and Hybrid Spectrum Access Schemes in Cognitive Radio Network. Advances in Wireless Technologies and Telecommunication Book Series, 2019, , 164-188.	0.4	0