

SanjayDharRoy

List of Publications by Year in descending order

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175
papers

923
citations

687363

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176
all docs

176
docs citations

176
times ranked

571
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Performance analysis of a cognitive radio network with adaptive RF energy harvesting. International Journal of Electronics Letters, 2021, 9, 114-127.	1.2	5
4	SBT (Sense Before Transmit) Based LTE Licenced Assisted Access for 5GHz Unlicensed Spectrum. Wireless Personal Communications, 2021, 119, 2069-2081.	2.7	3
5	Partial Relay Selection in Energy Harvesting Based NOMA Network with Imperfect CSI. Wireless Personal Communications, 2021, 120, 3153-3169.	2.7	2
6	A UAV based Multi-hop D2D Network for Disaster Management. , 2021, , .		0
7	Performance Analysis of a Cognitive Radio Network Under Energy Harvesting from Primary User Emulation Attacker. Wireless Personal Communications, 2021, 121, 2181.	2.7	0
8	Secure communication with energy harvesting multiple half-duplex DF relays assisted with jamming. Wireless Networks, 2020, 26, 1151-1164.	3.0	6
9	Allocation of optimal energy in an energy-harvesting cooperative multi-band cognitive radio network. Wireless Networks, 2020, 26, 1033-1043.	3.0	9
10	Two-Way Secure Communication with Multiple Untrusted Half-Duplex AF Relays. Wireless Personal Communications, 2020, 110, 2045-2064.	2.7	1
11	Secrecy and throughput performance of an energy harvesting hybrid cognitive radio network with spectrum sensing. Wireless Networks, 2020, 26, 1301-1314.	3.0	9
12	Outage Probability of a Cellular IoT Network. , 2020, , .		1
13	Handoff Analysis in 5G Small Cell Network. , 2020, , .		0
14	Physical Layer Security in Bidirectional Communication with SWIPT. Procedia Computer Science, 2020, 171, 1093-1101.	2.0	1
15	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
16	Inter Radio Access Technology [IRAT] Handover Algorithms for Heterogeneous Wireless Networks. Wireless Personal Communications, 2020, 114, 2477-2491.	2.7	3
17	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
18	Cross-Layer Energy Model for Non-Beacon-Enabled IEEE 802.15.4 Networks. IEEE Wireless Communications Letters, 2020, , 1-1.	5.0	3

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19	D2D communication with energy harvesting relays for disaster management. International Journal of Electronics, 2020, 107, 1272-1290.	1.4	5
20	Defense Against Spectrum Sensing Data Falsification Attacker in Cognitive Radio Networks. Wireless Personal Communications, 2020, 112, 849-862.	2.7	12
21	Secrecy at Physical Layer in NOMA with Cooperative Jamming. , 2020, , .		8
22	Throughput of an Energy-Harvesting UAV Assisted Cognitive Radio Network. , 2020, , .		6
23	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
24	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
25	Cognitive Machine to Machine Communication with Energy Harvesting in IoT networks. , 2019, , .		3
26	Secrecy outage in a two-hop decode and forward relay network with accumulated harvested energy. Physical Communication, 2019, 36, 100792.	2.1	4
27	Physical Layer Security under Accumulated Harvested Energy from RF Source. , 2019, , .		0
28	Secrecy performance of a two-way communication network with two half-duplex DF relays. IET Communications, 2019, 13, 620-629.	2.2	2
29	Secure communication in cognitive radio networks with untrusted AF relays. International Journal of Communication Systems, 2019, 32, e3919.	2.5	2
30	Radial Sub-band Allocation with Downlink Interference Mitigation in Macro-Femto Environment. Wireless Personal Communications, 2019, 106, 955-969.	2.7	1
31	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
32	Single CCA for IEEE 802.15.4 networks: a cross layer energy model. IET Networks, 2019, 8, 203-210.	1.8	1
33	Physical Layer Security with Non-Linear Energy Harvesting Relay. , 2019, , .		4
34	Secrecy Performance of CCRN with an EHAF Relay under Source and Destination Jamming. International Journal of Communication Systems, 2019, 32, e3880.	2.5	0
35	The effects of channel knowledge on cooperative spectrum sensing in Nakagami-n/q fading channels. Wireless Networks, 2019, 25, 2559-2571.	3.0	4
36	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

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37	Cooperative Spectrum Sensing Under Double Threshold With Censoring and Hybrid Spectrum Access Schemes in Cognitive Radio Network. <i>Advances in Wireless Technologies and Telecommunication Book Series</i> , 2019, , 164-188.	0.4	0
38	Performance of cognitive relay network with energy harvesting relay under imperfect CSI. <i>International Journal of Communication Systems</i> , 2018, 31, e3549.	2.5	3
39	Performance of an Energy harvesting Cooperative Cognitive Radio Network with Hybrid Spectrum Access Scheme. <i>Wireless Personal Communications</i> , 2018, 99, 1503-1520.	2.7	2
40	Throughput of cognitive radio networks with improved energy detector under security threats. <i>International Journal of Communication Systems</i> , 2018, 31, e3512.	2.5	5
41	Secrecy Outage of a Cognitive Radio Network with Selection of Energy Harvesting Relay and Imperfect CSI. <i>Wireless Personal Communications</i> , 2018, 100, 571-586.	2.7	16
42	Implementation of relay hopper model for reliable communication of IoT devices in LTE environment through D2D link. , 2018, , .		9
43	Multi slot-throughput tradeoff in an improved energy detector based faded cognitive radio network. <i>Wireless Networks</i> , 2018, 24, 2539-2552.	3.0	2
44	Censoring-Based Cooperative Spectrum Sensing with Improved Energy Detectors and Multiple Antennas in Fading Channels. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2018, 54, 537-553.	4.7	30
45	An analytical model of sequential hypothesis estimation for femtocell network optimisation. <i>International Journal of Electronics Letters</i> , 2018, 6, 242-248.	1.2	0
46	Secrecy Performance of Two-Way Communication in CRN with Half-Duplex AF Relay under Eavesdropper Attacking. , 2018, , .		1
47	Total Error Reduction in Presence of Malicious User in a Cognitive Radio Network. , 2018, , .		1
48	Enhanced Throughput Performance under Primary User Emulation Attack in Cognitive Radio Networks by Optimal Threshold Selection Approach. , 2018, , .		2
49	Closed-Form Outage Probability Expressions for Multihop Cognitive Radio Network with Best Path Selection Schemes in RF Energy Harvesting Environment. <i>Wireless Personal Communications</i> , 2018, 103, 2197-2212.	2.7	5
50	Physical layer security in cognitive radio network with energy harvesting relay and jamming in the presence of direct link. <i>IET Communications</i> , 2018, 12, 1389-1395.	2.2	22
51	Secrecy outage probability of a two-way cooperative network with an energy harvesting untrusted AF relay. <i>CSI Transactions on ICT</i> , 2018, 6, 129-136.	1.0	1
52	Comparative throughput study of energy harvesting CR network with adaptive hybrid relay. <i>CSI Transactions on ICT</i> , 2018, 6, 179-185.	1.0	0
53	Cognitive radio network with continuous energy harvesting. <i>International Journal of Communication Systems</i> , 2017, 30, e3132.	2.5	3
54	Joint impact of sensing time and SPRF parameter on the performance of a continuous energy harvesting cooperative cognitive radio network. <i>International Journal of Communication Systems</i> , 2017, 30, e3239.	2.5	1

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55	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
56	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
57	Energy Harvesting Based Multihop Relaying in Cognitive Radio Network. Wireless Personal Communications, 2017, 97, 6325-6342.	2.7	7
58	Throughput performance under primary user emulation attack in cognitive radio networks. International Journal of Communication Systems, 2017, 30, e3371.	2.5	9
59	Secrecy outage analysis in a hybrid cognitive relay network with energy harvesting. International Journal of Communication Systems, 2017, 30, e3228.	2.5	7
60	The Implications of Cognitive Femtocell Based Spectrum Allocation Over Macrocell Networks. Wireless Personal Communications, 2017, 92, 1125-1143.	2.7	3
61	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
62	Throughput and Outage Probability of Wireless Energy Harvesting Based Cognitive DF Relaying Network. Materials Today: Proceedings, 2017, 4, 10304-10308.	1.8	2
63	Two way secure communication with two half-duplex DF relay. , 2017, , .		5
64	Secrecy outage probability of dual hop amplify and forward relay in presence of an eavesdropper. , 2017, , .		0
65	Outage analysis of a multihop cognitive network with energy harvesting from a primary cluster. , 2017, , .		1
66	Primary behaviour based energy harvesting multihop cognitive radio network. IET Communications, 2017, 11, 2466-2475.	2.2	13
67	Secrecy analysis of a Cognitive Radio Network with an energy harvesting AF relay. , 2017, , .		5
68	Hybrid cooperative spectrum sensing with cyclostationary detector and improved energy detector for cognitive radio networks. , 2017, , .		5
69	Performance of different power control schemes for a hybrid LTE system with channel impairment. , 2017, , .		2
70	Novel Interference Modelling in Multicellular D2D Network. , 2017, , .		0
71	Enhanced Throughput Performance of Cognitive Radio Networks under Primary User Emulation Attack with Spectrum Prediction. , 2017, , .		1
72	Stochastic Geometry Based Handover Modelling in Two-tier Femtocell Networks. International Journal of Sensors, Wireless Communications and Control, 2017, 7, .	0.7	0

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73	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
74	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
75	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
76	Secrecy outage probability with destination assisted jamming in presence of an untrusted relay. , 2016, , .		8
77	Implementing a flexible testbed using dynamic FFR scheme in OFDMA based cognitive radio networks. , 2016, , .		0
78	Throughput analysis of multiple cognitive radio networks. , 2016, , .		2
79	Hybrid cooperative spectrum sensing with cyclostationary detection for cognitive radio networks. , 2016, , .		6
80	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
81	Performance of Cognitive Radio Network with Novel Hybrid Spectrum Access Schemes. Wireless Personal Communications, 2016, 91, 541-560.	2.7	14
82	Performance analysis of power controlled cognitive radio with imperfect Nakagami-m fading CSI. , 2016, , .		1
83	Cooperative spectrum sensing based on dynamic clustering with improved energy detector. , 2016, , .		2
84	Throughput and outage of a wireless energy harvesting based cognitive relay network. , 2016, , .		7
85	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
86	Secrecy performance of a dual hop cognitive relay network with an energy harvesting relay. , 2016, , .		15
87	Outage performance of secondary user in cognitive relay network with multiple PUs. , 2016, , .		1
88	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
89	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
90	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

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91	Detection performance of cooperative spectrum sensing with hard decision fusion in fading channels. International Journal of Electronics, 2016, 103, 297-321.	1.4	50
92	Secondary Network Throughput Analysis Applying SFR in OFDMA-CR Networks. Advances in Intelligent Systems and Computing, 2016, , 293-303.	0.6	1
93	Secondary throughput in underlay cognitive radio network with imperfect CSI and energy harvesting relay. , 2015, , .		3
94	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
95	Functionality analysis of centralized CR network with integrated femtocell under the presence of PU. , 2015, , .		0
96	A hybrid cooperative spectrum sensing for cognitive radio networks in presence of fading. , 2015, , .		8
97	Cooperative Spectrum Sensing with Double Threshold and Censoring in Rayleigh Faded Cognitive Radio Network. Wireless Personal Communications, 2015, 84, 251-271.	2.7	15
98	Spectrum sharing networks with imperfect channel state information. , 2015, , .		2
99	Qualitative analysis for coverage probability and energy efficiency in cognitive femtocell networks under macrocell infrastructure. Electronics Letters, 2015, 51, 1378-1380.	1.0	9
100	Outage analysis of a secondary user in overlay/underlay model. , 2015, , .		1
101	Cross-layer dual-hop energy model for 802.15.4 networks in a beacon-enabled mode. , 2015, , .		1
102	Double threshold based cooperative spectrum sensing for a cognitive radio network with improved energy detectors. IET Communications, 2015, 9, 2216-2226.	2.2	19
103	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
104	Cross-layer energy model for relay assisted 802.15.4 networks in a non-beacon-enabled mode. , 2014, , .		3
105	Outage performance of SU under spectrum sharing with imperfect CSI and primary user interference. , 2014, , .		3
106	Computation of coverage area of cognitive radio network under shadowed environment with spectrum underlay. , 2014, , .		2
107	Performance Improvement of Outage Users at Cell Edges through Cognitive-Femtocell Deployment over Macrocell Network. , 2014, , .		1
108	Combined censoring and weighted fusion based spectrum sensing with improved energy detector. , 2014, , .		1

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109	Effects of primary user interference and channel estimation errors on ergodic capacity of secondary user. , 2014, , .		0
110	Cognitive radio CDMA networking with spectrum sensing. International Journal of Communication Systems, 2014, 27, 1582-1600.	2.5	5
111	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
112	Signal Strength Ratio Based Vertical Handoff Decision Algorithms in Integrated Heterogeneous Networks. Wireless Personal Communications, 2014, 77, 2565-2585.	2.7	23
113	Throughput optimization with cooperative spectrum sensing in cognitive radio network. , 2014, , .		9
114	Relay based cooperative spectrum sensing in cognitive radio network. , 2014, , .		1
115	Outage performance of cognitive relay network with imperfect channel estimation under proactive DF relaying. , 2014, , .		10
116	Outage and SEP of secondary user with imperfect channel estimation and primary user interference. , 2014, , .		15
117	Outage and SEP Performance of Secondary User in Spectrum Sharing with Imperfect Channel Estimation. , 2014, , .		1
118	Spectrum sensing with censoring of double threshold based cognitive radios in Rayleigh fading. , 2014, , .		9
119	Optimum required overlapping ratio of adjacent radio cell coverage of WLANs. International Journal of Wireless and Mobile Computing, 2014, 7, 599.	0.2	0
120	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
121	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
122	Cooperative spectrum sensing with censoring of cognitive radios in Rayleigh fading under majority logic fusion. , 2013, , .		20
123	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
124	On spectrum sensing in cognitive radio CDMA networks with beamforming. Physical Communication, 2013, 9, 73-87.	2.1	5
125	On performance of cooperative spectrum sensing based on improved energy detector with multiple antennas in Hoyt fading channel. , 2013, , .		8
126	Cooperative spectrum sensing with censoring of cognitive radios with majority logic fusion in Hoyt fading. , 2013, , .		2

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127	Performance of cooperative spectrum sensing with soft data fusion schemes in fading channels. , 2013, , .		19
128	Performance of MRC fusion-based cooperative spectrum sensing with censoring of cognitive radios in rayleigh fading channels. , 2013, , .		7
129	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
130	On Performance of Weighted Fusion Based Spectrum Sensing in Fading Channels. Journal of Computational Engineering, 2013, 2013, 1-11.	0.8	2
131	On the data performance in tactical WLAN with signal strength ratio based handoff algorithms. , 2012, , .		1
132	Received signal strength based vertical handoff algorithm in 3G cellular network. , 2012, , .		9
133	Performance of cooperative spectrum sensing in fading channels. , 2012, , .		15
134	On the outage performance of a CR user in presence of Rayleigh fading and shadowing. , 2012, , .		0
135	Cooperative spectrum sensing with censoring of cognitive radios in Rayleigh fading channel. , 2012, , .		9
136	Outage analysis in presence of correlated interferers in a cognitive radio \hat{A} - CDMA network. International Journal of Communication Networks and Distributed Systems, 2012, 8, 332.	0.4	2
137	Cooperative spectrum sensing with censoring of cognitive radios and improved energy detector under LRT fusion. , 2012, , .		1
138	Performance of cooperative spectrum sensing using an improved energy detector in fading channels. , 2012, , .		1
139	Performance of cooperative spectrum sensing in Hoyt fading channel under hard decision fusion rules. , 2012, , .		6
140	Effect on the capacity of a cognitive radio based central access network in different fading distributions. , 2012, , .		0
141	Cooperative spectrum sensing with censoring of cognitive radios in presence of log-normal shadowing under majority logic fusion. , 2012, , .		2
142	Cooperative spectrum sensing with censoring of cognitive radios and improved energy detector under majority logic fusion. , 2012, , .		4
143	Improved energy detector with selection combining in cognitive radio network. , 2012, , .		1
144	Cooperative spectrum sensing in cognitive radio network with power control. , 2012, , .		1

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145	Performance of weighted cooperative spectrum sensing schemes in fading channels. , 2012, , .		0
146	Gradual Removal of Secondary User in Cognitive-CDMA Spectrum Underlay Network. , 2011, , .		1
147	Performance of cooperative spectrum sensing with censoring of cognitive radios in Rayleigh fading channel. , 2011, , .		4
148	Performance of energy detection based spectrum sensing in fading channels. , 2011, , .		12
149	Performance of cooperative spectrum sensing in Rician and Weibull fading channels. , 2011, , .		7
150	On the coexistence of cognitive radio and cellular networks: An outage analysis. , 2011, , .		8
151	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
152	Performance of Cognitive Radio CDMA networks with secondary user removal in spectrum underlay. , 2010, , .		0
153	On the data services of secondary user with primary exclusive region. , 2010, , .		0
154	Throughput/delay performance of secondary user in spectrum underlay. , 2010, , .		0
155	Forward link performance of packet data with LDPC in cellular CDMA. , 2010, , .		1
156	Reverse link performance of packet data with LDPC and soft handoff in cellular CDMA. , 2010, , .		0
157	Performance of joint admission and power control algorithms in Cognitive-CDMA Network. , 2010, , .		5
158	Outage analysis in presence of correlated interferers in a cognitive-cellular network. , 2010, , .		2
159	Performance Evaluation of Cognitive Radio CDMA Networks with Spectrum Sensing. , 2010, , .		3
160	Performance of MBMS with minimum SINR algorithm. , 2010, , .		0
161	Downlink multimedia services in CDMA network with fountain code and soft handoff. , 2010, , .		0
162	Performance of an adaptive power based CDMA cognitive radio networks. , 2010, , .		5

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163	A new algorithm for admission control of secondary users in CDMA based Cognitive Radio Network. , 2010, , .		0
164	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
165	Performance Evaluation of Signal Strength Based Handover Algorithms. International Journal of Communications, Network and System Sciences, 2009, 02, 657-663.	0.6	3
166	Performance of Data Services in Cellular CDMA in Presence of Soft handoff and Beamforming. , 2008, , .		5
167	Closed-form analysis for performance evaluation of soft handoff. , 2008, , .		0
168	Performance of Packet Data with Truncated Power Control and Truncated ARQ in Presence of Soft Handoff in Cellular CDMA. , 2008, , .		0
169	Performance Analysis of Handoff Algorithms for Multihop Ad Hoc Wireless Network. , 2008, , .		1
170	Signal strength ratio based handoff algorithms for cellular networks. , 2008, , .		5
171	A Timer Based Handoff Algorithm for Multi-Cellular Systems. , 2008, , .		5
172	Forward link performance of packet data in presence of soft handoff in cellular CDMA. , 2008, , .		1
173	PERFORMANCE ANALYSIS OF CELLULAR CDMA IN PRESENCE OF BEAMFORMING AND SOFT HANDOFF. Progress in Electromagnetics Research, 2008, 88, 73-89.	4.4	11
174	Handover initiation algorithm based on combined signal strength measurements and distance. , 2007, , .		0
175	Performance of a cognitive device-to-device network in disaster situation under a collision constraint. International Journal of Communication Systems, 0, , .	2.5	1