Honggang Zhang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

3,462 29 174 55 h-index g-index citations papers 4,482 5.78 219 5.4 avg, IF L-index ext. citations ext. papers

#	Paper	IF	Citations
174	Trustable Policy Collaboration Scheme for Multi-Agent Stigmergic Reinforcement Learning. <i>IEEE Communications Letters</i> , 2022 , 1-1	3.8	O
173	Information Freshness-Aware Task Offloading in Air-Ground Integrated Edge Computing Systems. <i>IEEE Journal on Selected Areas in Communications</i> , 2022 , 40, 243-258	14.2	9
172	Semantic Communication with Adaptive Universal Transformer. <i>IEEE Wireless Communications Letters</i> , 2021 , 1-1	5.9	5
171	RAN Information-assisted TCP Congestion Control Using Deep Reinforcement Learning with Reward Redistribution. <i>IEEE Transactions on Communications</i> , 2021 , 1-1	6.9	0
170	Persistent Homology-Based Topological Analysis on the Gestalt Patterns during Human Brain Cognition Process. <i>Journal of Healthcare Engineering</i> , 2021 , 2021, 2334332	3.7	O
169	RAN Information-assisted TCP Congestion Control via DRL with Reward Redistribution 2021,		1
168	. IEEE Transactions on Mobile Computing, 2021 , 20, 2254-2268	4.6	1
167	Stigmergic Independent Reinforcement Learning for Multiagent Collaboration. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021 , PP,	10.3	5
166	Neurophysiological Assessment of Image Quality from EEG Using Persistent Homology of Brain Network 2021 ,		1
165	Graph Attention Network-Based Multi-Agent Reinforcement Learning for Slicing Resource Management in Dense Cellular Network. <i>IEEE Transactions on Vehicular Technology</i> , 2021 , 1-1	6.8	4
164	Neural evidence for image quality perception based on algebraic topology <i>PLoS ONE</i> , 2021 , 16, e02613	23 <i>3</i> 7	O
163	The Collective Advantage for Advancing Communications and Intelligence. <i>IEEE Wireless Communications</i> , 2020 , 27, 96-102	13.4	7
162	The LSTM-Based Advantage Actor-Critic Learning for Resource Management in Network Slicing With User Mobility. <i>IEEE Communications Letters</i> , 2020 , 24, 2005-2009	3.8	28
161	Resource Awareness In Unmanned Aerial Vehicle-Assisted Mobile-Edge Computing Systems 2020,		10
160	Evaluation Mechanism of Collective Intelligence for Heterogeneous Agents Group. <i>IEEE Access</i> , 2020 , 8, 28385-28394	3.5	3
159	Age of Information Aware Radio Resource Management in Vehicular Networks: A Proactive Deep Reinforcement Learning Perspective. <i>IEEE Transactions on Wireless Communications</i> , 2020 , 19, 2268-228	31 ^{9.6}	58
158	Evolving Deep Convolutional Neural Network for Intrusion Detection Based on NEAT 2020,		1

157	Graph Convolutional Multi-Agent Reinforcement Learning for UAV Coverage Control 2020,		3
156	GAN-Powered Deep Distributional Reinforcement Learning for Resource Management in Network Slicing. <i>IEEE Journal on Selected Areas in Communications</i> , 2020 , 38, 334-349	14.2	58
155	Deep Learning Based Traffic and Mobility Prediction 2020 , 119-136		0
154	Study on Base Station Topology in National Cellular Networks: Take Advantage of Alpha Shapes, Betti Numbers, and Euler Characteristics. <i>IEEE Systems Journal</i> , 2020 , 14, 2202-2213	4.3	
153	Multi-Tenant Cross-Slice Resource Orchestration: A Deep Reinforcement Learning Approach. <i>IEEE Journal on Selected Areas in Communications</i> , 2019 , 37, 2377-2392	14.2	66
152	Brain-Inspired Stigmergy Learning. <i>IEEE Access</i> , 2019 , 7, 54410-54424	3.5	4
151	Deep Learning with Long Short-Term Memory for Time Series Prediction. <i>IEEE Communications Magazine</i> , 2019 , 57, 114-119	9.1	139
150	. IEEE Access, 2019 , 7, 101441-101452	3.5	34
149	Multicast scheduling for delay-energy trade-off under bursty request arrivals in cellular networks. <i>IET Communications</i> , 2019 , 13, 1696-1701	1.3	0
148	Deep Reinforcement Learning With Discrete Normalized Advantage Functions for Resource Management in Network Slicing. <i>IEEE Communications Letters</i> , 2019 , 23, 1337-1341	3.8	33
147	Decentralized Deep Reinforcement Learning for Delay-Power Tradeoff in Vehicular Communications 2019 ,		2
146	GAN-Based Deep Distributional Reinforcement Learning for Resource Management in Network Slicing 2019 ,		7
145	Fundamentals on Base Stations in Urban Cellular Networks: From the Perspective of Algebraic Topology. <i>IEEE Wireless Communications Letters</i> , 2019 , 8, 612-615	5.9	4
144	Al-Based Two-Stage Intrusion Detection for Software Defined IoT Networks. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 2093-2102	10.7	76
143	The Stochastic Geometry Analyses of Cellular Networks With \$alpha\$ -Stable Self-Similarity. <i>IEEE Transactions on Communications</i> , 2019 , 67, 2487-2503	6.9	12
142	Optimized Computation Offloading Performance in Virtual Edge Computing Systems Via Deep Reinforcement Learning. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 4005-4018	10.7	262
	Reinforcement Learning. ILLL internet of Trinigs Southut, 2017, 6, 4005-4016		
141	Wireless Resource Scheduling in Virtualized Radio Access Networks Using Stochastic Learning. <i>IEEE Transactions on Mobile Computing</i> , 2018 , 17, 961-974	4.6	30

139	Green Communications and Computing Networks 2018 , 56, 138-139		1
138	Deep Learning-Based Intelligent Dual Connectivity for Mobility Management in Dense Network 2018 ,		15
137	Traffic Prediction Based on Random Connectivity in Deep Learning with Long Short-Term Memory 2018 ,		13
136	Performance Optimization in Mobile-Edge Computing via Deep Reinforcement Learning 2018,		64
135	Characterizing and Learning the Mobile Data Traffic in Cellular Network 2018 , 453-498		
134	Evaluation of LTP-Based DTN for Deep Space Communication 2018,		1
133	Deep Reinforcement Learning for Resource Management in Network Slicing. <i>IEEE Access</i> , 2018 , 6, 744	29 3 7 5 144	11 110
132	Energy-Efficient Event Detection by Participatory Sensing Under Budget Constraints. <i>IEEE Systems Journal</i> , 2017 , 11, 2490-2501	4.3	21
131	Architecture and Application of SDN/NFV-enabled Space-Terrestrial Integrated Network. <i>Communications in Computer and Information Science</i> , 2017 , 244-255	0.3	
130	Green Communications and Computing Networks 2017 , 55, 160-161		
129			
	Adapting Downlink Power in Fronthaul-Constrained Hierarchical Software-Defined RANs 2017,		7
128	Adapting Downlink Power in Fronthaul-Constrained Hierarchical Software-Defined RANs 2017 , The Emergence of Scaling Law, Fractal Patterns and Small-World in Wireless Networks. <i>IEEE Access</i> , 2017 , 5, 3121-3130	3.5	7
	The Emergence of Scaling Law, Fractal Patterns and Small-World in Wireless Networks. <i>IEEE Access</i> ,	3.5	
128	The Emergence of Scaling Law, Fractal Patterns and Small-World in Wireless Networks. <i>IEEE Access</i> , 2017 , 5, 3121-3130 Intelligent 5G: When Cellular Networks Meet Artificial Intelligence. <i>IEEE Wireless Communications</i> ,		7
128	The Emergence of Scaling Law, Fractal Patterns and Small-World in Wireless Networks. <i>IEEE Access</i> , 2017, 5, 3121-3130 Intelligent 5G: When Cellular Networks Meet Artificial Intelligence. <i>IEEE Wireless Communications</i> , 2017, 24, 175-183 The Learning and Prediction of Application-Level Traffic Data in Cellular Networks. <i>IEEE</i>	13.4	7 293
128 127 126	The Emergence of Scaling Law, Fractal Patterns and Small-World in Wireless Networks. <i>IEEE Access</i> , 2017 , 5, 3121-3130 Intelligent 5G: When Cellular Networks Meet Artificial Intelligence. <i>IEEE Wireless Communications</i> , 2017 , 24, 175-183 The Learning and Prediction of Application-Level Traffic Data in Cellular Networks. <i>IEEE Transactions on Wireless Communications</i> , 2017 , 16, 3899-3912	13.4	7 293 58
128 127 126	The Emergence of Scaling Law, Fractal Patterns and Small-World in Wireless Networks. <i>IEEE Access</i> , 2017, 5, 3121-3130 Intelligent 5G: When Cellular Networks Meet Artificial Intelligence. <i>IEEE Wireless Communications</i> , 2017, 24, 175-183 The Learning and Prediction of Application-Level Traffic Data in Cellular Networks. <i>IEEE Transactions on Wireless Communications</i> , 2017, 16, 3899-3912 On the Emerging of Scaling Law, Fractality and Small-World in Cellular Networks 2017, A revisiting to queueing theory for mobile instant messaging with keep-alive mechanism in cellular	13.4	7 293 58

121	An intelligent honeynet architecture based on software defined security 2017 ,		2
120	Cooperate Caching with Multicast for Mobile Edge Computing in 5G Networks 2017 ,		7
119	Joint computation offloading and data caching with delay optimization in mobile-edge computing systems 2017 ,		17
118	Green Communications and Computing Networks 2017 , 55, 12-13		3
117	Network slicing as a service: enabling enterprisesTown software-defined cellular networks 2016 , 54, 146-153		164
116	On the dependence between base stations deployment and traffic spatial distribution in cellular networks 2016 ,		3
115	A reality check of Base Station Spatial Distribution in mobile networks 2016,		2
114	What is the Best Spatial Distribution to Model Base Station Density? A Deep Dive into Two European Mobile Networks. <i>IEEE Access</i> , 2016 , 4, 1434-1443	3.5	21
113	Game-Theoretic Multi-Channel Multi-Access in Energy Harvesting Wireless Sensor Networks. <i>IEEE Sensors Journal</i> , 2016 , 16, 4587-4594	4	14
112	Green communications and computing networks [Series Editorial] 2016 , 54, 106-107		10
111	Characterizing and Modeling Social Mobile Data Traffic in Cellular Networks 2016,		4
110	Optimizing routing and server selection in intelligent SDN-based CDN 2016 ,		7
109	Latency analysis of cooperative caching with multicast for 5G wireless networks 2016,		9
108	ISD-WiFi: An intelligent SDN based solution for enterprise WLANs 2016,		4
107	A transfer learning framework for energy efficient Wi-Fi networks and performance analysis using real data 2016 ,		3
106	Energy-Efficient User Association and Downlink Power Allocation in Software Defined HetNet 2016 ,		2
105	Energy-Efficiency Oriented Traffic Offloading in Wireless Networks: A Brief Survey and a Learning Approach for Heterogeneous Cellular Networks. <i>IEEE Journal on Selected Areas in Communications</i> , 2015 , 33, 627-640	14.2	170
104	Optimal Base Station Sleeping in Green Cellular Networks: A Distributed Cooperative Framework Based on Game Theory. <i>IEEE Transactions on Wireless Communications</i> , 2015 , 14, 4391-4406	9.6	57

103	Reconfigurable Filter Bank With Complete Control Over Subband Bandwidths for Multistandard Wireless Communication Receivers. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2015 , 23, 1772-1782	2.6	11
102	On the limits of predictability in real-world radio spectrum state dynamics: from entropy theory to 5G spectrum sharing 2015 , 53, 178-183		79
101	Reciprocally opportunistic spectrum access. <i>Transactions on Emerging Telecommunications Technologies</i> , 2015 , 26, 1073-1085	1.9	2
100	Understanding the Traffic Nature of Mobile Instantaneous Messaging in Cellular Networks: A Revisiting to \$alpha \$-Stable Models. <i>IEEE Access</i> , 2015 , 3, 1416-1422	3.5	11
99	Energy Efficiency Analysis of Heterogeneous Cellular Networks with Downlink and Uplink Decoupling 2015 ,		9
98	Green communications and computing networks [Series Editorial] 2015 , 53, 214-215		2
97	On the \$alpha\$-Stable Distribution of Base Stations in Cellular Networks. <i>IEEE Communications Letters</i> , 2015 , 19, 1750-1753	3.8	22
96	Large-Scale Spatial Distribution Identification of Base Stations in Cellular Networks. <i>IEEE Access</i> , 2015 , 3, 2987-2999	3.5	29
95	A learning approach for traffic offloading in stochastic heterogeneous cellular networks 2015,		8
94	On the Spatial Distribution of Base Stations and Its Relation to the Traffic Density in Cellular Networks. <i>IEEE Access</i> , 2015 , 3, 998-1010	3.5	38
93	Foresighted resource scheduling in software-defined radio access networks 2015,		5
92	Green communications and computing networks [Series Editorial] 2015 , 53, 148-149		5
91	An efficient policy for D2D communications and energy harvesting in cognitive radios: Go Bayesian! 2015 ,		18
90	Low complexity and efficient dynamic spectrum learning and tunable bandwidth access for heterogeneous decentralized cognitive radio networks 2015 , 37, 13-23		13
89	Spatial modeling of the traffic density in cellular networks. <i>IEEE Wireless Communications</i> , 2014 , 21, 80-8	8 8 3.4	121
88	TACT: A Transfer Actor-Critic Learning Framework for Energy Saving in Cellular Radio Access Networks. <i>IEEE Transactions on Wireless Communications</i> , 2014 , 13, 2000-2011	9.6	75
87	Adaptive multi-task compressive sensing for localisation in wireless local area networks. <i>IET Communications</i> , 2014 , 8, 1736-1744	1.3	16
86	Predicting Spectrum Occupancies Using a Non-Stationary Hidden Markov Model. <i>IEEE Wireless Communications Letters</i> , 2014 , 3, 333-336	5.9	22

(2013-2014)

85	Energy savings scheme in radio access networks via compressive sensing-based traffic load prediction. <i>Transactions on Emerging Telecommunications Technologies</i> , 2014 , 25, 468-478	1.9	26
84	The prediction analysis of cellular radio access network traffic: From entropy theory to networking practice 2014 , 52, 234-240		59
83	An adaptive scheme for data forwarding in software defined network 2014,		7
82	A game-theoretic approach for optimal base station sleeping in green cellular networks 2014 ,		5
81	SoftMobile: control evolution for future heterogeneous mobile networks. <i>IEEE Wireless Communications</i> , 2014 , 21, 70-78	13.4	41
80	Two-tier spatial modeling of base stations in cellular networks 2014,		12
79	Characterizing spatial patterns of base stations in cellular networks 2014,		18
78	Toward 5G: when explosive bursts meet soft cloud. <i>IEEE Network</i> , 2014 , 28, 12-17	11.4	18
77	Green communications and computing networks [Series Editoral] 2014 , 52, 102-103		2
76	An approximate algorithm of controller configuration in multi-domain SDN architecture 2014,		4
75	Understanding the Nature of Social Mobile Instant Messaging in Cellular Networks. <i>IEEE Communications Letters</i> , 2014 , 18, 389-392	3.8	20
74	Efficient decentralized dynamic spectrum learning and access policy for multi-standard multi-user cognitive radio networks 2014 ,		1
73	On the cooperation between cognitive radio users and femtocell networks for cooperative spectrum sensing and self-organization 2013 ,		1
72	Efficient spectrum sensing for green cognitive radio using low complexity reconfigurable fast filter bank 2013 ,		1
71	Downlink interference minimization in cooperative cognitive LTE-femtocell networks. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2013 , 2013,	3.2	3
70	Combined learning for energy efficiency in heterogeneous cellular networks 2013,		1
69	Human Mobility Patterns in Cellular Networks. <i>IEEE Communications Letters</i> , 2013 , 17, 1877-1880	3.8	26
68	Blind wireless standard identification for green radio communications 2013,		3

67	Stochastic Power Adaptation with Multiagent Reinforcement Learning for Cognitive Wireless Mesh Networks. <i>IEEE Transactions on Mobile Computing</i> , 2013 , 12, 2155-2166	50
66	Downlink interference minimization in cognitive LTE-femtocell networks 2013,	6
65	Improving energy efficiency in Green femtocell networks: A hierarchical reinforcement learning framework 2013 ,	20
64	Spatial-temporal compressed sensing based traffic prediction in cellular networks 2012,	3
63	GM-PAB: A grid-based energy saving scheme with predicted traffic load guidance for cellular networks 2012 ,	10
62	Energy saving through a learning framework in greener cellular radio access networks 2012,	9
61	Cognitive Acoustics: A Way to Extend the Lifetime of Underwater Acoustic Sensor Networks 2012 , 395-416	
60	Cognitive Radio and Networks for Heterogeneous Networking 2012 , 17-52	1
59	Introduction to Cognitive Communications 2012 , 1-16	
58	Filter Bank Techniques for Multi-Carrier Cognitive Radio Systems 2012 , 93-118	
58 57	Filter Bank Techniques for Multi-Carrier Cognitive Radio Systems 2012 , 93-118 Cognitive Femtocell Networks 2012 , 359-394	7
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57	Cognitive Femtocell Networks 2012 , 359-394	
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57 56 55	Cognitive Femtocell Networks 2012 , 359-394 Learning Techniques for Context Diagnosis and Prediction in Cognitive Communications 2012 , 231-256 Reinforcement Learning for Distributed Power Control and Channel Access in Cognitive Wireless Mesh Networks 2012 , 163-193 Channel Assignment and Power Allocation Algorithms in Multi-Carrier-Based Cognitive Radio	
57 56 55 54	Cognitive Femtocell Networks 2012, 359-394 Learning Techniques for Context Diagnosis and Prediction in Cognitive Communications 2012, 231-256 Reinforcement Learning for Distributed Power Control and Channel Access in Cognitive Wireless Mesh Networks 2012, 163-193 Channel Assignment and Power Allocation Algorithms in Multi-Carrier-Based Cognitive Radio Environments 2012, 53-92	1
57 56 55 54 53	Cognitive Femtocell Networks 2012, 359-394 Learning Techniques for Context Diagnosis and Prediction in Cognitive Communications 2012, 231-256 Reinforcement Learning for Distributed Power Control and Channel Access in Cognitive Wireless Mesh Networks 2012, 163-193 Channel Assignment and Power Allocation Algorithms in Multi-Carrier-Based Cognitive Radio Environments 2012, 53-92 Machine Learning Applied to Cognitive Communications 2012, 143-162	1

Reinforcement Learning-Based Cognitive Radio for Open Spectrum Access **2012**, 195-230

48	Regulatory Policy and Economics of Cognitive Radio for Secondary Spectrum Access 2012 , 283-317		
47	CMOS RF Transceiver Considerations for DSA 2012 , 417-464		
46	A pilot-aided channel estimation method for FBMC/OQAM communications system 2012,		1
45	Adaptive Bayesian Compressed Sensing based localization in wireless networks 2012,		3
44	The predictability of cellular networks traffic 2012 ,		24
43	Exploration vs exploitation for distributed channel access in cognitive radio networks: A multi-user case study 2011 ,		2
42	Compressed sensing for efficient random routing in multi-hop wireless sensor networks. International Journal of Communication Networks and Distributed Systems, 2011, 7, 275	0.4	15
41	Energy efficiency in communications: part II [Guest Editorial] 2011 , 49, 28-29		5
40	Energy efficiency in communications: Part III 2011 , 49, 52-54		4
39	Network energy saving technologies for green wireless access networks. <i>IEEE Wireless Communications</i> , 2011 , 18, 30-38	13.4	150
38	Equalization of rotationally variant signals. <i>Optoelectronics, Instrumentation and Data Processing</i> , 2011 , 47, 253-263	0.6	
37	Reinforcement Learning Enhanced Iterative Power Allocation in Stochastic Cognitive Wireless Mesh Networks. <i>Wireless Personal Communications</i> , 2011 , 57, 89-104	1.9	4
36	Energy efficient data gathering based on distributed iLT coding 2011 ,		1
35	Collaborative spectrum sharing based on information pooling for cognitive radio networks with channel heterogeneity 2011 ,		1
34	Distributed anomaly event detection in wireless networks using compressed sensing 2011 ,		3
33	Dynamic energy savings in heterogeneous cellular networks based on traffic prediction using compressive sensing 2011 ,		5
32	A Novel Control Channel Management in CogMesh Networks 2011 ,		2

31	Control Channel Management in Dynamic Spectrum Access-Based Ad Hoc Networks 2011 , 181-205		0
30	LT coding over the network 2010 ,		1
29	Power entangling and matching in cognitive wireless mesh networks by applying conjecture based multi-agent QQ-learning approach 2010 ,		1
28	Energy efficiency in communications 2010 , 48, 48-49		45
27	Applying multi-agent Q-learning scheme in cognitive wireless mesh networks for green communications 2010 ,		3
26	Compressed sensing based random routing for multi-hop wireless sensor networks 2010 ,		4
25	Adaptive threshold enhanced filter banks for wireless microphone detection in IEEE 802.22 WRAN 2010 ,		1
24	Compressed sensing for efficient random routing in multi-hop wireless sensor networks 2010,		7
23	Reliable data transmission using IBRC and LT codes over AWGN channels 2010 ,		1
22	Achievements and the Road Ahead: The First Decade of Cognitive Radio. <i>IEEE Transactions on Vehicular Technology</i> , 2010 , 59, 1574-1577	6.8	12
22		6.8	12
	Vehicular Technology, 2010 , 59, 1574-1577	6.8	
21	Vehicular Technology, 2010, 59, 1574-1577 Towards green wireless access networks 2010,	6.8	21
21	Vehicular Technology, 2010, 59, 1574-1577 Towards green wireless access networks 2010, Novel filter banks based wireless microphone detection in IEEE 802.22 WRAN 2010,	6.8	21
21 20 19	Vehicular Technology, 2010, 59, 1574-1577 Towards green wireless access networks 2010, Novel filter banks based wireless microphone detection in IEEE 802.22 WRAN 2010, On the application of compressed sensing in communication networks 2010,	6.8	21 2 5
21 20 19	Vehicular Technology, 2010, 59, 1574-1577 Towards green wireless access networks 2010, Novel filter banks based wireless microphone detection in IEEE 802.22 WRAN 2010, On the application of compressed sensing in communication networks 2010, Spectrum Self-Coexistence in Cognitive Wireless Access Networks 2009,	1.9	21 2 5 3
21 20 19 18	Towards green wireless access networks 2010, Novel filter banks based wireless microphone detection in IEEE 802.22 WRAN 2010, On the application of compressed sensing in communication networks 2010, Spectrum Self-Coexistence in Cognitive Wireless Access Networks 2009, 2009, Intercluster Connection in Cognitive Wireless Mesh Networks Based on Intelligent Network Coding.		21 2 5 3

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13	Improving spectrum sensing by counting rules for cognitive radio 2008 ,		1
12	Decision Fusion of Cooperative Spectrum Sensing for Cognitive Radio under Bandwidth Constraints 2008 ,		8
11	Ultra-Wideband Cognitive Radio for Dynamic Spectrum Accessing Networks 2008, 353-382		
10	Transmit Power Allocation among Orthogonal Pulse Wavelets for BER Performance Improvement in Cognitive UWB Radio 2007 ,		1
9	CogMesh: A Cluster-Based Cognitive Radio Network 2007 ,		149
8	CogMesh: A Cluster Based Cognitive Radio Mesh Network 2007 , 657-678		13
7	2006,		2
6			
O	Transmit Power Allocation among PSWF-based Pulse Wavelets in Cognitive UWB Radio 2006 ,		4
5	Transmit Power Allocation among PSWF-based Pulse Wavelets in Cognitive UWB Radio 2006, Multiple signal waveforms adaptation in cognitive ultra-wideband radio evolution. <i>IEEE Journal on Selected Areas in Communications</i> , 2006, 24, 878-884	14.2	44
	Multiple signal waveforms adaptation in cognitive ultra-wideband radio evolution. <i>IEEE Journal on</i>	14.2	<u> </u>
5	Multiple signal waveforms adaptation in cognitive ultra-wideband radio evolution. <i>IEEE Journal on Selected Areas in Communications</i> , 2006 , 24, 878-884 Research advances in cognitive ultra wide band radio and their application to sensor networks.	,	44
5	Multiple signal waveforms adaptation in cognitive ultra-wideband radio evolution. <i>IEEE Journal on Selected Areas in Communications</i> , 2006 , 24, 878-884 Research advances in cognitive ultra wide band radio and their application to sensor networks. <i>Mobile Networks and Applications</i> , 2006 , 11, 487-499	,	44