

Tamer Khattab

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131
papers

909
citations

14
h-index

23
g-index

173
ext. papers

1,248
ext. citations

4.9
avg, IF

4.84
L-index

#	Paper	IF	Citations
131	Design Challenges of Multi-UAV Systems in Cyber-Physical Applications: A Comprehensive Survey and Future Directions. <i>IEEE Communications Surveys and Tutorials</i> , 2019 , 21, 3340-3385	37.1	90
130	RF-based drone detection and identification using deep learning approaches: An initiative towards a large open source drone database. <i>Future Generation Computer Systems</i> , 2019 , 100, 86-97	7.5	66
129	A Survey on Mobile Crowd-Sensing and Its Applications in the IoT Era. <i>IEEE Access</i> , 2019 , 7, 3855-3881	3.5	30
128	Smart and Secure Wireless Communications via Reflecting Intelligent Surfaces: A Short Survey. <i>IEEE Open Journal of the Communications Society</i> , 2020 , 1, 1442-1456	6.7	29
127	Eigenvalue-Based Multiple Antenna Spectrum Sensing: Higher Order Moments. <i>IEEE Transactions on Wireless Communications</i> , 2017 , 16, 1168-1184	9.6	26
126	A Distributed Approach for Networked Flying Platform Association with Small Cells in 5G+ Networks 2017 ,		24
125	DroneRF dataset: A dataset of drones for RF-based detection, classification and identification. <i>Data in Brief</i> , 2019 , 26, 104313	1.2	23
124	Secure Spatial Multiple Access Using Directional Modulation. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 563-573	9.6	21
123	Unleashing the secure potential of the wireless physical layer: Secret key generation methods. <i>Physical Communication</i> , 2016 , 19, 1-10	2.2	21
122	On spectrum sharing between energy harvesting cognitive radio users and primary users 2015 ,		20
121	Association of networked flying platforms with small cells for network centric 5G+ C-RAN 2017 ,		16
120	Secure Transmission of IoT mHealth Patient Monitoring Data from Remote Areas Using DTN. <i>IEEE Network</i> , 2020 , 34, 226-231	11.4	15
119	Deep Learning for RF-Based Drone Detection and Identification: A Multi-Channel 1-D Convolutional Neural Networks Approach 2020 ,		14
118	Theoretical accuracy analysis of indoor visible light communication positioning system based on time-of-arrival 2016 ,		14
117	Carrier Aggregation for Cooperative Cognitive Radio Networks. <i>IEEE Transactions on Vehicular Technology</i> , 2017 , 66, 5904-5918	6.8	13
116	On the Performance of Hadamard Ratio Detector-Based Spectrum Sensing for Cognitive Radios. <i>IEEE Transactions on Signal Processing</i> , 2015 , 63, 3809-3824	4.8	13
115	On the Performance of Quickest Detection Spectrum Sensing: The Case of Cumulative Sum. <i>IEEE Communications Letters</i> , 2020 , 24, 739-743	3.8	12

114	On the Higher Order Statistics of the Channel Capacity in Dispersed Spectrum Cognitive Radio Systems Over Generalized Fading Channels. <i>IEEE Transactions on Vehicular Technology</i> , 2016 , 65, 3818-3823	6.8	11
113	. <i>IEEE Transactions on Communications</i> , 2019 , 67, 6544-6555	6.9	11
112	2014 ,		11
111	Optimized Error Probability for Weighted Collaborative Spectrum Sensing in Time- and Energy-Limited Cognitive Radio Networks. <i>IEEE Transactions on Vehicular Technology</i> , 2017 , 66, 9035-9049	6.8	10
110	Secret Key Generation Based on AoA Estimation for Low SNR Conditions 2015 ,		10
109	Statistics of general order selection in correlated Nakagami fading channels. <i>IEEE Transactions on Communications</i> , 2008 , 56, 344-346	6.9	10
108	Analysis of Wireless CSMA/CA Network Using Single Station Superposition (SSS). <i>AEU - International Journal of Electronics and Communications</i> , 2002 , 56, 73-83	2.8	10
107	A review of mathematical model-based scenario analysis and interventions for COVID-19. <i>Computer Methods and Programs in Biomedicine</i> , 2021 , 209, 106301	6.9	10
106	Characterization of the indoor-outdoor radio propagation channel at 2.4 GHz 2011 ,		9
105	Optical CDMA for All-Optical Sub-Wavelength Switching in Core GMPLS Networks. <i>IEEE Journal on Selected Areas in Communications</i> , 2007 , 25, 905-921	14.2	9
104	5G Networks Towards Smart and Sustainable Cities: A Review of Recent Developments, Applications and Future Perspectives. <i>IEEE Access</i> , 2022 , 10, 2987-3006	3.5	9
103	Secure multiple-users transmission using multi-path directional modulation 2016 ,		9
102	Energy efficient spectrum allocation and mode selection for mission-critical D2D communications 2016 ,		9
101	Correlated Multiple Antennas Spectrum Sensing Under Calibration Uncertainty. <i>IEEE Transactions on Wireless Communications</i> , 2015 , 14, 6777-6791	9.6	8
100	Distributed spectrum sensing of correlated observations in cognitive radio networks 2013 ,		8
99	Adaptive hierarchical cooperative communication using energy harvesting relay 2013 ,		8
98	Reinforcement learning-based decision support system for COVID-19. <i>Biomedical Signal Processing and Control</i> , 2021 , 68, 102676	4.9	8
97	Game Theory for Anti-Jamming Strategy in Multi-Channel Slow fading IoT Networks. <i>IEEE Internet of Things Journal</i> , 2021 , 1-1	10.7	8

96	On the coexistence of a primary user with an energy harvesting secondary user: a case of cognitive cooperation. <i>Wireless Communications and Mobile Computing</i> , 2016 , 16, 166-176	1.9	7
95	. <i>IEEE Transactions on Wireless Communications</i> , 2015 , 14, 3509-3518	9.6	7
94	2014 ,		7
93	Non-data-aided SNR estimation for QPSK modulation in AWGN channel 2014 ,		7
92	STATISTICAL ANALYSIS OF ELECTROMAGNETIC FIELD INSIDE A JET ENGINE USING THE REVERBERATION CHAMBER APPROACH. <i>Progress in Electromagnetics Research M</i> , 2012 , 24, 157-165	0.6	7
91	Throughput of a cooperative energy harvesting secondary user in cognitive radio networks. <i>Transactions on Emerging Telecommunications Technologies</i> , 2016 , 27, 1365-1379	1.9	7
90	Deep Reinforcement Learning Powered IRS-Assisted Downlink NOMA. <i>IEEE Open Journal of the Communications Society</i> , 2022 , 1-1	6.7	7
89	Optimal cooperative cognitive relaying and spectrum access for an energy harvesting cognitive radio: Reinforcement learning approach 2015 ,		6
88	Design and Implementation of a RF Based Anti-Drone System 2020 ,		6
87	Distributed Power Allocation for Multi-Flow Carrier Aggregation in Heterogeneous Cognitive Cellular Networks. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 2486-2498	9.6	6
86	Estimating the number of sources in white Gaussian noise: simple eigenvalues based approaches. <i>IET Signal Processing</i> , 2017 , 11, 663-673	1.7	6
85	Efficient Collaborative Spectrum Sensing under the Smart Primary User Emulation Attacker Network 2015 ,		6
84	On the performance of spectrum sensing based on GLR for full-duplex cognitive radio networks 2016 ,		6
83	Relay-Assisted Primary and Secondary Transmissions in Cognitive Radio Networks. <i>IEEE Access</i> , 2016 , 4, 6386-6400	3.5	6
82	Optimal collaborative energy harvesting spectrum sensing with limited time resource 2016 ,		6
81	Classification for Imperfect EEG Epileptic Seizure in IoT applications: A Comparative Study 2018 ,		6
80	On dual peak detection UWB receivers in noise and interference dominated environments. <i>AEU - International Journal of Electronics and Communications</i> , 2016 , 70, 121-131	2.8	5
79	Secure mHealth IoT Data Transfer from the Patient to the Hospital: A Three-Tier Approach. <i>IEEE Wireless Communications</i> , 2019 , 26, 70-76	13.4	5

78	2014,		5
77	Hybrid underlay/overlay cognitive radio system with hierarchical modulation in the presence of channel estimation error 2014,		5
76	Interference cancellation through interference alignment for downlink of cognitive cellular networks. <i>Electronics Letters</i> , 2015 , 51, 54-56	1.1	5
75	Maximizing Dense Network Flow through Wireless Multihop Backhauling using UAVs 2018,		5
74	Energy-efficient cooperative cognitive relaying schemes for cognitive radio networks. <i>Physical Communication</i> , 2018 , 30, 179-192	2.2	5
73	Energy-efficient cooperative relaying protocol for full-duplex cognitive radio users and delay-aware primary users 2015,		4
72	Estimating the number of sources: An efficient maximization approach 2015,		4
71	. <i>IEEE Transactions on Vehicular Technology</i> , 2015 , 64, 5221-5231	6.8	4
70	Novel Hybrid Physical Layer Security Technique in RFID Systems 2019,		4
69	Self-interference cancellation using time-domain phase noise estimation in OFDM full-duplex systems 2017,		4
68	Cognitive relay-sharing by using hierarchical modulation under interference constraints 2014,		4
67	Optimized collaborative spectrum sensing in energy harvesting cognitive radio networks 2016,		4
66	On the more accurate channel model and positioning based on time-of-arrival for visible light localization. <i>Optical Engineering</i> , 2017 , 56, 016110	1.1	3
65	Joint Security and Energy Efficiency in IoT Networks Through Clustering and Bit Flipping 2019,		3
64	Modeling of CubeSat Orientation Scenario and Solar Cells for Internet of Space Provision 2019,		3
63	Centralized and Distributed Cognitive Relay-Selection Schemes for SWIPT Cognitive Networks. <i>IEEE Transactions on Communications</i> , 2019 , 67, 7431-7443	6.9	3
62	3D Beamforming With Massive Cylindrical Arrays for Physical Layer Secure Data Transmission. <i>IEEE Communications Letters</i> , 2019 , 23, 830-833	3.8	3
61	Comparative simulation for physical layer key generation methods 2015,		3

60	On Channel Selection for Carrier Aggregation Systems. <i>IEEE Transactions on Communications</i> , 2018 , 66, 808-818	6.9	3
59	Swinging with the Jet Set: Analysis of Electromagnetic Fields Inside Jet Engines--From Numerical and Experimental Analysis to Statistical Analysis. <i>IEEE Microwave Magazine</i> , 2016 , 17, 61-72	1.2	3
58	Performance of eigenvalue based spectrum sensing in full-duplex cognitive radio networks 2016 ,		3
57	Band allocation for cognitive radios with buffered primary and secondary users 2014 ,		3
56	A New Wearable ECG Monitor Evaluation and Experimental Analysis: Proof of Concept 2020 ,		3
55	Secret communication on the Z-Channel with cooperative receivers 2016 ,		3
54	Underlay cognitive radio: What is the impact of carrier aggregation and relaying on throughput? 2016 ,		3
53	Patch Antenna Array Designs for Wireless Communication Applications Inside Jet Engines. <i>IEEE Transactions on Antennas and Propagation</i> , 2019 , 67, 971-979	4.9	3
52	Power Budgeting of LEO Satellites: An Electrical Power System Design for 5G Missions. <i>IEEE Access</i> , 2021 , 9, 113258-113269	3.5	3
51	A Simple Approach for Securing IoT Data Transmitted over Multi-RATs 2018 ,		3
50	. <i>IEEE Transactions on Communications</i> , 2017 , 1-1	6.9	2
49	A Simple Cross Correlation Switched Beam System (XSBS) for Angle of Arrival Estimation. <i>IEEE Access</i> , 2017 , 5, 3340-3352	3.5	2
48	On the Achievable Rates of OFDM With Common Phase Error Compensation in Phase Noise Channels. <i>IEEE Transactions on Communications</i> , 2017 , 1-1	6.9	2
47	On the Design of a Relay-Assisted Network. <i>IEEE Communications Letters</i> , 2015 , 19, 1153-1156	3.8	2
46	Optimal spectrum access for a rechargeable cognitive radio user based on energy buffer state 2015 ,		2
45	Thresholds Optimization for One-Bit Feedback Multi-User Scheduling. <i>IEEE Wireless Communications Letters</i> , 2018 , 7, 646-649	5.9	2
44	Optimization of probability of error in collaborative spectrum sensing of time-limited cognitive radio networks 2016 ,		2
43	A secure client-side framework for protecting the privacy of health data stored on the cloud 2018 ,		2

42	On Network Flow Maximization via Multihop Backhauling and UAVs: An Integer Programming Approach 2019 ,		2
41	Maximum throughput of a secondary user cooperating with an energy-aware primary user 2014 ,		2
40	2014 ,		2
39	Dynamic interference-limited relay sharing in cognitive radio networks by using hierarchical modulation. <i>IET Communications</i> , 2017 , 11, 1903-1912	1.3	2
38	On the Secure Degrees of Freedom of the K User MIMO MAC with Statistical CSI 2017 ,		2
37	A Simple Angle of Arrival Estimation System 2017 ,		2
36	2015 ,		2
35	Secrecy for MIMO wiretap and MIMO broadcast channels with fading eavesdroppers: CSI does not increase the secure DoF 2015 ,		2
34	Multuser scheduling on downlink communications by using adaptive hierarchical modulation 2015 ,		2
33	On Orthogonal Band Allocation for Multuser Multiband Cognitive Radio Networks: Stability Analysis. <i>IEEE Transactions on Communications</i> , 2014 , 1-1	6.9	2
32	Cooperative cognitive relaying under primary and secondary quality of service satisfaction 2014 ,		2
31	Compressed wideband spectrum sensing with correlated subband occupancy in multi-antenna cognitive radios 2012 ,		2
30	Time-frequency compressed spectrum sensing in cognitive radios 2013 ,		2
29	A hybrid spectrum sensing technique with multiple antenna based on GLRT 2013 ,		2
28	Performance of THz Communications over Cascaded RISs: A Practical Solution to the Over-determined Formulation. <i>IEEE Communications Letters</i> , 2021 , 1-1	3.8	2
27	Robust secret key extraction from channel secondary random process. <i>Wireless Communications and Mobile Computing</i> , 2016 , 16, 1389-1400	1.9	2
26	Capacious spread spectrum watermarking utilizing hadamard matrix 2016 ,		2
25	Mean squared error analysis for OFDMA signals under joint Tx/Rx IQ imbalance 2018 ,		2

24	ViDMASK dataset for face mask detection with social distance measurement.. <i>Displays</i> , 2022 , 102235	3.4	2
23	DFT-Based Multi-Directions Directional Modulation. <i>IEEE Wireless Communications Letters</i> , 2019 , 8, 1232-1235	5.1	1
22	Order Statistics-Based Design of UWB Receivers. <i>IEEE Wireless Communications Letters</i> , 2020 , 9, 1427-1431	3.9	1
21	Channel secondary random process for robust secret key generation 2015 ,		1
20	Probabilistic band-splitting for a buffered cooperative cognitive terminal 2014 ,		1
19	A novel peak search & save cyclostationary feature detection algorithm 2014 ,		1
18	Directional Modulation for Secure RFID in Health Systems 2020 ,		1
17	Non-uniform Quantized Distributed Sensing in Practical Wireless Rayleigh Fading Channel. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2015 , 78-91	0.2	1
16	Distributed Power Control for Carrier Aggregation in Cognitive Heterogeneous 5G Cellular Networks. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2015 , 681-695	0.2	1
15	Performance of non-coherent decode-and-forward relaying over time-varying fading channels 2016 ,		1
14	Secure DoF for the MIMO MAC: The Case of Knowing Eavesdropper's Channel Statistics Only 2019 ,		1
13	An Efficient Algorithm for Dense Network Flow Maximization with Multihop Backhauling and NFPs 2019 ,		1
12	Coded Caching for Time-Varying Files Popularities and Asynchronous Delivery. <i>IEEE Open Journal of the Communications Society</i> , 2021 , 2, 1458-1472	6.7	1
11	Expatriates Housing Dispersal Outlook in a Rapidly Developing Metropolis Based on Urban Growth Predicted Using a Machine Learning Algorithm. <i>Housing Policy Debate</i> , 1-21	1.2	1
10	A Secure Energy Efficient Scheme for Cooperative IoT Networks.. <i>IEEE Transactions on Communications</i> , 2022 , 1-1	6.9	1
9	Centralized, Distributed, and Module-Integrated Electric Power System Schemes in CubeSats: Performance Assessment. <i>IEEE Access</i> , 2022 , 1-1	3.5	1
8	Energy Efficient Spectrum Allocation and Mode Selection for D2D Communications in Heterogeneous Networks. <i>IEEE Transactions on Signal and Information Processing Over Networks</i> , 2020 , 6, 382-393	2.8	0
7	A Novel Pandemic Tracking Map: From Theory to Implementation. <i>IEEE Access</i> , 2021 , 9, 51106-51120	3.5	0

- 6 Maximum Secondary Stable Throughput of a Cooperative Secondary TransmitterReceiver Pair: Protocol Design and Stability Analysis. *IEEE Transactions on Vehicular Technology*, **2016**, 65, 4937-4951 6.8
- 5 Exploiting spectrum sensing data for key management. *Computer Communications*, **2017**, 97, 31-39 5.1
- 4 Generalized dynamic spectrum access: An order statistics design perspective. *AEU - International Journal of Electronics and Communications*, **2009**, 63, 1054-1060 2.8
- 3 Fractional Low Order Cyclostationary-Based Spectrum Sensing in Cognitive Radio Networks. *Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering*, **2015**, 3-16 0.2
- 2 Optimization of Collaborative Spectrum Sensing with Limited Time Resource. *Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering*, **2015**, 109-122 0.2
- 1 Detection of Temporally Correlated Primary User Signal with Multiple Antennas. *Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering*, **2015**, 66-77 0.2