Karim G Seddik

List of Publications by Citations

109 papers	1,031 citations	15 h-index	27 g-index
146 ext. papers	1,433 ext. citations	4.8 avg, IF	4.85 L-index

#	Paper	IF	Citations
109	Reconfigurable Intelligent Surfaces for Wireless Communications: Principles, Challenges, and Opportunities. *IEEE Transactions on Cognitive Communications and Networking*, **2020**, 6, 990-1002	6.6	172
108	Outage analysis and optimal power allocation for multinode relay networks. *IEEE Signal Processing Letters*, **2007**, 14, 377-380	3.2	116
107	Game Theory Meets Wireless Sensor Networks Security Requirements and Threats Mitigation: A Survey. *Sensors*, **2016**, 16,	3.8	58
106	Noncoherent Backscatter Communications Over Ambient OFDM Signals. *IEEE Transactions on Communications*, **2019**, 67, 3597-3611	6.9	37
105	A Machine-Learning-Based Technique for False Data Injection Attacks Detection in Industrial IoT. *IEEE Internet of Things Journal*, **2020**, 7, 8462-8471	10.7	29
104	. *IEEE Transactions on Vehicular Technology*, **2008**, 57, 2280-2292	6.8	27
103	Trans-Modulation in Wireless Relay Networks. *IEEE Communications Letters*, **2008**, 12, 170-172	3.8	26
102	Using Stackelberg game to enhance cognitive radio sensor networks security. *IET Communications*, **2017**, 11, 1503-1511	1.3	25
101	Improving Connectivity via Relays Deployment in Wireless Sensor Networks **2007**,		22
100	. *IEEE Transactions on Wireless Communications*, **2009**, 8, 356-366	9.6	20
99	On Timely Channel Coding with Hybrid ARQ **2019**,		19
98	Prolonging smart grid network lifetime through optimising number of sensor nodes and packet length. *IET Communications*, **2019**, 13, 2478-2484	1.3	18
97	. *IEEE Transactions on Vehicular Technology*, **2016**, 65, 7334-7348	6.8	16
96	. *IEEE Transactions on Wireless Communications*, **2008**, 7, 4748-4759	9.6	15
95	Outage analysis of multi-node amplify-and-forward relay networks **2006**,		15
94	Towards optimal resource allocation in wireless powered communication networks with non-orthogonal multiple access. *Ad Hoc Networks*, **2019**, 85, 1-10	4.8	14
93	A Feedback- Soft Sensing-Based Access Scheme for Cognitive Radio Networks. *IEEE Transactions on Wireless Communications*, **2013**, 12, 3226-3237	9.6	13

92	**2017**,		13
91	. *IEEE Transactions on Communications*, **2017**, 65, 1451-1463	6.9	13
90	Backscatter Communications Over Ambient OFDM Signals Using Null Subcarriers **2018**,		13
89	Non-Orthogonal Multiple Access schemes in Wireless Powered Communication Networks **2017**,		12
88	Using Stackelberg game to enhance node protection in WSNs **2016**,		12
87	Mode selection, user pairing, subcarrier allocation and power control in full-duplex OFDMA HetNets **2015**,		11
86	Collaborative compressive spectrum sensing using kronecker sparsifying basis **2013**,		11
85	Using repeated game for maximizing high priority data trustworthiness in Wireless Sensor Networks **2017**,		10
84	**2015**,		10
83	On the diversity gain region of the Z-interference channels **2012**,		10
82	Optimization of energy-constrained wireless powered communication networks with heterogeneous nodes. *Wireless Networks*, **2019**, 25, 713-730	2.5	10
81	On the stable throughput of cooperative cognitive radio networks with finite relaying buffer **2014**,		9
80	. *IEEE Transactions on Vehicular Technology*, **2016**, 1-1	6.8	9
79	On optimal policies in full-duplex wireless powered communication networks **2016**,		9
78	Low-Complexity Semi-Blind Channel Estimation Algorithms for Vehicular Communications Using the IEEE 802.11p Standard. *IEEE Transactions on Intelligent Transportation Systems*, **2019**, 20, 1739-1748	6.1	8
77	RIS Optimization on the Complex Circle Manifold for Interference Mitigation in Interference Channels. *IEEE Transactions on Vehicular Technology*, **2021**, 70, 6184-6189	6.8	8
76	Joint Resource Management With Distributed Uplink Power Control in Full-Duplex OFDMA Networks. *IEEE Transactions on Vehicular Technology*, **2020**, 69, 2850-2863	6.8	7
75	Adaptive spectrum hole detection using Sequential Compressive Sensing **2014**,		7

74	Channel Estimation and Tracking Algorithms for Harsh Vehicle to Vehicle Environments **2015**,		7
73	**2011**,		7
72	Soft Sensing-Based Multiple Access for Cognitive Radio Networks **2010**,		7
71	Primary User-Aware Optimal Discovery Routing for Cognitive Radio Networks. *IEEE Transactions on Mobile Computing*, **2019**, 18, 193-206	4.6	7
70	On Spatial Multiplexing Using Reconfigurable Intelligent Surfaces. *IEEE Wireless Communications Letters*, **2021**, 10, 226-230	5.9	7
69	Power optimization for layered transmission over decode-and-forward relay channels **2014**,		6
68	Cooperative D2D communication in downlink cellular networks with energy harvesting capability **2017**,		6
67	Asymptotic Distortion Performance of Source-Channel Diversity over Multihop and Relay Channels. *IEEE Transactions on Mobile Computing*, **2010**, 9, 270-287	4.6	6
66	Multi-Resolution Multicasting Over the Grassmann and Stiefel Manifolds. *IEEE Transactions on Wireless Communications*, **2017**, 16, 5296-5310	9.6	5
65	On the stability of random multiple access with feedback exploitation and queue priority **2014**,		5
64	Cooperative MAC for Cognitive Radio Network with Energy Harvesting and Randomized Service Policy **2015**,		5
63	On the stability of random access with energy harvesting and collision resolution **2014**,		5
62	Distortion Exponents for Different Source-Channel Diversity Achieving Schemes over Multi-Hop Channels **2007**,		5
61	**2020**,		4
60	Stable Throughput of Cooperative Cognitive Networks With Energy Harvesting: Finite Relay Buffer and Finite Battery Capacity. *IEEE Transactions on Cognitive Communications and Networking*, **2018**, 4, 704-718	6.6	4
59	Coordinated partial co-channel deployment in two-layer networks **2013**,		4
58	Adaptive low power detection of sparse events in wireless sensor networks **2014**,		4
57	Timely Estimation Using Coded Quantized Samples **2020**,		4

56	Asymmetric degrees of freedom of the full-duplex MIMO 3-way channel **2016**,		4
55	A systematic design approach for non-coherent Grassmannian constellations **2016**,		4
54	Effective capacity optimization for cognitive radio networks under primary QoS provisioning. *Wireless Networks*, **2020**, 26, 2171-2190	2.5	4
53	A pricing-based cooperative spectrum sharing stackelberg game **2014**,		3
52	Censoring for Type-Based Multiple Access Scheme in Wireless Sensor Networks **2012**,		3
51	**2009**,		3
50	Censoring for improved performance of distributed detection in wireless sensor networks **2011**,		3
49	**2016**,		3
48	Sample, Quantize and Encode: Timely Estimation Over Noisy Channels. *IEEE Transactions on Communications*, **2021**, 1-1	6.9	3
47	. *IEEE Transactions on Communications*, **2017**, 1-1	6.9	2
46	A Cooperative Scheme for the Coexistence of the LTE and WiFi Systems **2017**,		2
45	Noncoherent Frequency Shift Keying for Ambient Backscatter Over OFDM Signals **2019**,		2
44	Multi-Resolution Multicasting Using Grassmannian Codes and Space Shift Keying. *IEEE Transactions on Vehicular Technology*, **2019**, 68, 988-992	6.8	2
43	Joint estimation-detection of cyber attacks in smart grids: Bayesian and non-Bayesian formulations **2015**,		2
42	. *IEEE Access*, **2020**, 8, 9157-9171	3.5	2
41	Cooperative Delay-Constrained Cognitive Radio Networks: Throughput Maximization with Full-Duplex Capability Impact. *Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering*, **2019**, 180-194	0.2	2
40	Generalized Instantly Decodable Network Coding for relay-assisted networks **2013**,		2
39	Cooperation in multi-user wireless powered communication networks **2017**,		2

38	Primary User Aware k-Hop Routing for Cognitive Radio Networks **2015**,		2
37	Multi-resolution broadcasting over the Grassmann and stiefel manifolds **2014**,		2
36	Sparse reconstruction-based detection of spatial dimension holes in cognitive radio networks **2013**,		2
35	Femtocells interference avoidance using Femtocell Identification **2011**,		2
34	On the ARQ protocols over the Z-interference channels: Diversity-multiplexing-delay tradeoff **2012** ,		2
33	**2016**,		2
32	Noncoherent MIMO Codes Construction Using Autoencoders **2019**,		2
31	. *IEEE Transactions on Cognitive Communications and Networking*, **2020**, 6, 728-739	6.6	2
30	Mobility Load Management in Cellular Networks: A Deep Reinforcement Learning Approach. *IEEE Transactions on Mobile Computing*, **2021**, 1-1	4.6	2
29	**2021**,		2
28	Soft-Sensing CQI Feedback-Based Access Scheme in Cognitive Radio Networks. *IEEE Transactions on Cognitive Communications and Networking*, **2018**, 4, 486-499	6.6	2
27	A Machine Learning-Based Technique for the Classification of Indoor/Outdoor Cellular Network Clients **2020**,		1
26	Hybrid Feedback-Based Access Scheme for Cognitive Radio Systems **2017**,		1
25	Non-coherent multi-layer constellations for unequal error protection **2017**,		1
24	Pseudo-Lattice Treatment for Subspace Aligned Interference Signals. *IEEE Transactions on Vehicular Technology*, **2014**, 63, 4729-4734	6.8	1
23	Performance evaluation of censoring-enabled systems for sequential detection in large wireless sensor networks **2014**,		1
22	Exploiting Temporal Correlation of Sparse Signals in Wireless Sensor Networks **2014**,		1
21	**2017**,		1

20	Fault-tolerant PMU placement using algebraic connectivity of graphs **2017**,		1
19	Jointly optimal power and rate allocation for layered broadcast over amplify-and-forward relay channels **2015**,		1
18	A feedback-soft sensing-based cognitive access scheme with feedback erasures **2014**,		1
17	Spiky sea clutter and constant false alarm rate processing in high-resolution maritime radar systems **2012**,		1
16	A feedback-based access scheme for cognitive-relaying networks **2012**,		1
15	On the Tail-Biting Convolutional Code Decoder for the LTE and LTE-A standardsV**2013**,		1
14	Distributed Space-Frequency Coding over Amplify-and-Forward Relay Channels **2008**,		1
13	WLC21-6: Protocol-Aware Design Criteria and Performance Analysis for Distributed Space-Time Coding **2006**,		1
12	Effective Capacity and Delay Optimization in Cognitive Radio Networks. *Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering*, **2015**, 30-42	0.2	1
11	On the Effective Capacity of Delay Constrained Cognitive Radio Networks with Relaying Capability. *Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering*, **2015**, 767-779	0.2	1
10	A Collaborative Approach for Compressive Spectrum Sensing. *Advances in Wireless Technologies and Telecommunication Book Series*, **2015**, 153-178	0.2	1
9	Differential Unitary Space-Time Constellations From Spherical Codes. *IEEE Wireless Communications Letters*, **2020**, 9, 1909-1913	5.9	1
8	Topology realization using gain control for wireless testbeds **2016**,		1
7	**2018**,		1
6	Distributed Space-Frequency Coding for Cooperative Diversity Over Broadband Relay Channels With DF Relaying. *IEEE Transactions on Vehicular Technology*, **2012**, 61, 3266-3272	6.8	0
5	. *IEEE Access*, **2022**, 1-1	3.5	0
4	. *IEEE Transactions on Vehicular Technology*, **2021**, 70, 6913-6929	6.8	0
3	On the Degrees of Freedom of IRS-Assisted Non-coherent MIMO Communications. *IEEE Communications Letters*, **2022**, 1-1	3.8	0

2	IRS-Assisted Physical Layer Network Coding over Two-Way Relay Fading Channels. *IEEE Transactions on Vehicular Technology*, **2022**, 1-1	6.8	0
1	Maximizing dirty-paper coding rate of RIS-assisted multi-user MIMO broadcast channels. *Intelligent and Converged Networks*, **2022**, 3, 64-73	4	0