

Elias Yaacoub

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.

148 papers	1,728 citations	19 h-index	36 g-index
171 ext. papers	2,220 ext. citations	5.2 avg, IF	5.57 L-index

#	Paper	IF	Citations
148	A Secure Energy Efficient Scheme for Cooperative IoT Networks.. <i>IEEE Transactions on Communications</i> , 2022 , 1-1	6.9	1
147	Preliminary design and evaluation of a remote tele-mentoring system for minimally invasive surgery.. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2022 , 36, 3663	5.2	1
146	Evaluation of User-Interfaces for Controlling Movements of Virtual Minimally Invasive Surgical Instruments.. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2022 , e2414	2.9	0
145	Asynchronous Federated Learning-based ECG Analysis for Arrhythmia Detection 2021 ,		3
144	Energy-Aware Distributed Edge ML for mHealth Applications With Strict Latency Requirements. <i>IEEE Wireless Communications Letters</i> , 2021 , 1-1	5.9	0
143	Machine Learning Techniques for Detecting Attackers During Quantum Key Distribution in IoT Networks With Application to Railway Scenarios. <i>IEEE Access</i> , 2021 , 9, 136994-137004	3.5	4
142	Efficient Fronthaul and Backhaul Connectivity for IoT Traffic in Rural Areas. <i>IEEE Internet of Things Magazine</i> , 2021 , 4, 60-66	3.5	3
141	On The Use of Quantum Communications for Securing IoT Devices in the 6G Era 2021 ,		3
140	Towards development of a tele-mentoring framework for minimally invasive surgeries. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2021 , 17, e2305	2.9	3
139	. <i>IEEE Internet of Things Journal</i> , 2021 , 8, 6454-6468	10.7	3
138	Physical Layer Security in Military Communications 2021 , 384-398		
137	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
136	A Novel Pandemic Tracking Map: From Theory to Implementation. <i>IEEE Access</i> , 2021 , 9, 51106-51120	3.5	0
135	Travel Hopping Enabled Resource Allocation (THEResA) and delay tolerant networking through the use of UAVs in railroad networks. <i>Ad Hoc Networks</i> , 2021 , 122, 102628	4.8	0
134	Q-Learning Based Joint Energy-Spectral Efficiency Optimization in Multi-Hop Device-to-Device Communication. <i>Sensors</i> , 2020 , 20,	3.8	2
133	. <i>Proceedings of the IEEE</i> , 2020 , 108, 533-582	14.3	100
132	Secure Transmission of IoT mHealth Patient Monitoring Data from Remote Areas Using DTN. <i>IEEE Network</i> , 2020 , 34, 226-231	11.4	15

131	Securing internet of medical things systems: Limitations, issues and recommendations. <i>Future Generation Computer Systems</i> , 2020 , 105, 581-606	7.5	55
130	Joint Security and Energy Efficiency in IoT Networks Through Clustering and Bit Flipping 2019 ,		3
129	Performance Analysis of Circular Color Shift Keying in VLC Systems With Camera-Based Receivers. <i>IEEE Transactions on Communications</i> , 2019 , 67, 4252-4266	6.9	6
128	3D Beamforming With Massive Cylindrical Arrays for Physical Layer Secure Data Transmission. <i>IEEE Communications Letters</i> , 2019 , 23, 830-833	3.8	3
127	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
126	Physical Layer Security in Military Communications. <i>International Journal of Mobile Computing and Multimedia Communications</i> , 2019 , 10, 26-40	0.7	
125	Secure DoF for the MIMO MAC: The Case of Knowing Eavesdropper's Channel Statistics Only 2019 ,		1
124	A Real-Time ECG Feature Extraction Algorithm for Detecting Meditation Levels within a General Measurement Setup. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2019 , 2019, 99-103	0.9	1
123	A Survey on Mobile Crowd-Sensing and Its Applications in the IoT Era. <i>IEEE Access</i> , 2019 , 7, 3855-3881	3.5	30
122	Cooperative reinforcement learning for adaptive power allocation in device-to-device communication 2018 ,		7
121	Safe driving: A mobile application for detecting traffic accidents 2018 ,		3
120	Intelligent eye: A mobile application for assisting blind people 2018 ,		11
119	A secure client-side framework for protecting the privacy of health data stored on the cloud 2018 ,		2
118	An Efficient Channel-Aware Aloha-Like OFDMA-Based Wireless Communication Protocol for IoT Communications in Wireless Sensor Networks. <i>Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series</i> , 2018 , 85-110	0.4	
117	Cooperative energy efficient D2D clustering in LTE-A with enhanced QoS. <i>Telecommunication Systems</i> , 2018 , 67, 401-414	2.3	5
116	Classification for Imperfect EEG Epileptic Seizure in IoT applications: A Comparative Study 2018 ,		6
115	A Simple Approach for Securing IoT Data Transmitted over Multi-RATs 2018 ,		3
114	RESCUE: Renewable Energy Small Cells for Utility Enhancement in Green LTE HetNets. <i>IEEE Systems Journal</i> , 2017 , 11, 2356-2365	4.3	5

113	Femtocells in centralized systems: green operation and radio resource management techniques. <i>Annales Des Telecommunications/Annals of Telecommunications</i> , 2017 , 72, 679-691	2	1
112	Achieving physical layer security with massive MIMO beamforming 2017 ,		10
111	Green Virtualization for Multiple Collaborative Cellular Operators. <i>IEEE Transactions on Cognitive Communications and Networking</i> , 2017 , 3, 420-434	6.6	8
110	Green Networking in Cellular HetNets: A Unified Radio Resource Management Framework With Base Station ON/OFF Switching. <i>IEEE Transactions on Vehicular Technology</i> , 2017 , 66, 5879-5893	6.8	30
109	Toward Massive Machine Type Cellular Communications. <i>IEEE Wireless Communications</i> , 2017 , 24, 120-128	3.4	243
108	Rectangular and circular arrays with independently controlled beamwidth and sidelobe level 2017 ,		2
107	Throughput-Aware Cooperative Reinforcement Learning for Adaptive Resource Allocation in Device-to-Device Communication. <i>Future Internet</i> , 2017 , 9, 72	3.3	20
106	A Game Theoretic Framework for Green HetNets Using D2D Traffic Offload and Renewable Energy Powered Base Stations 2017 , 679-711		
105	. <i>IEEE Transactions on Vehicular Technology</i> , 2016 , 65, 1575-1589	6.8	55
104	. <i>IEEE Access</i> , 2016 , 4, 5010-5029	3.5	20
103	Tutorial on LTE/LTE-A Cellular Network Dimensioning Using Iterative Statistical Analysis. <i>IEEE Communications Surveys and Tutorials</i> , 2016 , 18, 1355-1383	37.1	28
102	Multi-operator Collaboration for Green Cellular Networks. <i>Studies in Systems, Decision and Control</i> , 2016 , 97-122	0.8	2
101	On the use of massive cylindrical antenna arrays for physical layer security 2016 ,		3
100	On secret key generation with massive MIMO antennas using time-frequency-space dimensions 2016 ,		2
99	An overview of research topics and challenges for 5G massive MIMO antennas 2016 ,		14
98	Green 5G Femtocells for Supporting Indoor Generated IoT Traffic. <i>Modeling and Optimization in Science and Technologies</i> , 2016 , 129-152	0.6	5
97	. <i>IEEE Transactions on Vehicular Technology</i> , 2016 , 1-1	6.8	16
96	Interference mitigation in femtocell networks with joint channel sensing and resource allocation 2015 ,		2

95	On the Dual-Decomposition-Based Resource and Power Allocation with Sleeping Strategy for Heterogeneous Networks 2015 ,		5
94	LTE radio resource management for real-time smart meter reading in the smart grid 2015 ,		8
93	Joint Bandwidth and Power Allocation for MIMO Two-Way Relays-Assisted Overlay Cognitive Radio Systems. <i>IEEE Transactions on Cognitive Communications and Networking</i> , 2015 , 1, 383-393	6.6	10
92	Confluence of pattern recognition and signal processing: application of Al-Alaoui pattern recognition algorithm to digital filters design. <i>IET Signal Processing</i> , 2015 , 9, 498-505	1.7	0
91	QoE Enhancement of SVC Video Streaming Over Vehicular Networks Using Cooperative LTE/802.11p Communications. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2015 , 9, 37-49	7.5	50
90	On the impact of D2D traffic offloading on energy efficiency in green LTE-A HetNets. <i>Wireless Communications and Mobile Computing</i> , 2015 , 15, 1089-1105	1.9	9
89	A game theoretical approach for cooperative green mobile operators under roaming price consideration 2015 ,		1
88	Delay-sensitive content distribution via peer-to-peer collaboration in public safety vehicular ad-hoc networks. <i>Ad Hoc Networks</i> , 2014 , 16, 182-196	4.8	9
87	Optimized Smart Grid Energy Procurement for LTE Networks Using Evolutionary Algorithms. <i>IEEE Transactions on Vehicular Technology</i> , 2014 , 63, 4508-4519	6.8	51
86	Energy-efficient two-hop LTE resource allocation in high speed trains with moving relays 2014 ,		7
85	On the use of device-to-device communications for QoS and data rate enhancement in LTE public safety networks 2014 ,		12
84	A generic simulation-based dimensioning approach for planning heterogeneous LTE cellular networks 2014 ,		3
83	Cluster based V2V communications for enhanced QoS of SVC video streaming over vehicular networks 2014 ,		1
82	LTE radio network planning with HetNets: BS placement optimization using simulated annealing 2014 ,		16
81	Mobile relays for enhanced broadband connectivity in high speed train systems. <i>Physical Communication</i> , 2014 , 12, 105-115	2.2	10
80	Bandwidth and power allocation for two-way relaying in overlay cognitive radio systems 2014 ,		6
79	On the extension of traditional resource allocation algorithms in LTE-A to joint UL-DL scheduling with FDD carrier aggregation 2014 ,		1
78	Fair Optimization of Video Streaming Quality of Experience in LTE Networks Using Distributed Antenna Systems and Radio Resource Management. <i>Journal of Applied Mathematics</i> , 2014 , 2014, 1-12	1.1	6

77	Multi-Operator Collaboration for Green Cellular Networks under Roaming Price Consideration 2014 ,	5
76	A game theoretical approach for cooperative environmentally friendly cellular networks powered by the smart grid 2014 ,	7
75	On using relays with carrier aggregation for planning 5G networks supporting M2M traffic 2014 ,	7
74	2014 ,	4
73	On real-time smart meter reading using OFDMA-based random access 2014 ,	3
72	Empirical evaluation of acoustical signals for leakage detection in underground plastic pipes 2014 ,	3
71	Network QoE metrics for assessing system-level performance of radio resource management algorithms in LTE networks 2014 ,	2
70	Optimized LTE Cell Planning for Multiple User Density Subareas Using Meta-Heuristic Algorithms 2014 ,	8
69	A practical approach for base station on/off switching in green LTE-A HetNets 2014 ,	6
68	Automatic meter reading in the smart grid using contention based random access over the free cellular spectrum. <i>Computer Networks</i> , 2014 , 59, 171-183	5.4 30
67	Radio Resource Management in Integrated Wired/Wireless LTE Femtocell Networks. <i>Lecture Notes in Computer Science</i> , 2014 , 96-108	0.9 4
66	SVC video streaming over cooperative LTE/802.11p vehicle-to-infrastructure communications 2013 ,	10
65	Achieving energy efficiency in LTE with joint D2D communications and green networking techniques 2013 ,	17
64	Air quality monitoring and analysis in Qatar using a wireless sensor network deployment 2013 ,	10
63	A modified joint uplink-downlink opportunistic scheduling for Quality of Service guarantees 2013 ,	6
62	Enhanced connectivity in railroad networks using LTE relays with directive antennas 2013 ,	1
61	Enhanced connectivity in vehicular ad-hoc networks via V2V communications 2013 ,	8
60	Joint energy-distortion aware algorithms for cooperative video streaming over LTE networks. <i>Signal Processing: Image Communication</i> , 2013 , 28, 1114-1131	2.8 7

59	Energy-Aware Cooperative Content Distribution over Wireless Networks: Design Alternatives and Implementation Aspects. <i>IEEE Communications Surveys and Tutorials</i> , 2013 , 15, 1736-1760	37.1	52
58	Performance of Green LTE Networks Powered by the Smart Grid with Time Varying User Density 2013 ,		5
57	Wireless sensor network for real-time air pollution monitoring 2013 ,		54
56	Energy optimization in unsynchronized TDD systems for joint uplink downlink scheduling 2013 ,		2
55	A game theoretic framework for energy efficient deployment and operation of heterogeneous LTE networks 2013 ,		4
54	Exploiting multiple wireless interfaces in smartphones for traffic offloading 2013 ,		11
53	Enhancing the quality of experience of video streaming in LTE networks using distributed antenna systems 2013 ,		2
52	On the capacity and spatial fairness trade-off in planning sectorization and frequency reuse 2013 ,		1
51	A Survey on Uplink Resource Allocation in OFDMA Wireless Networks. <i>IEEE Communications Surveys and Tutorials</i> , 2012 , 14, 322-337	37.1	98
50	Cooperative ad hoc networks for energy and delay efficient content distribution with fast channel variations. <i>Wireless Communications and Mobile Computing</i> , 2012 , 12, 1635-1651	1.9	
49	Cooperative relay-based multicasting for energy and delay minimization 2012 ,		1
48	On the performance of distributed base stations in LTE public safety networks 2012 ,		5
47	Green communications in LTE networks with environmentally friendly small cell base stations 2012 ,		13
46	Energy-efficient Device-to-Device communications in LTE public safety networks 2012 ,		33
45	Performance study of the implementation of green communications in LTE networks 2012 ,		11
44	Optimized green operation of LTE networks in the presence of multiple electricity providers 2012 ,		9
43	Heterogeneous LTE/802.11a mobile relays for data rate enhancement and energy-efficiency in high speed trains 2012 ,		5
42	Multihop Routing for Energy Efficiency in Wireless Sensor Networks 2012 ,		12

41	Uplink OFDMA resource allocation with discrete rates: optimal solution and suboptimal implementation. <i>Transactions on Emerging Telecommunications Technologies</i> , 2012 , 23, 148-162	1.9	7
40	A utility minimization approach for energy-aware cooperative content distribution with fairness constraints. <i>Transactions on Emerging Telecommunications Technologies</i> , 2012 , 23, 378-392	1.9	21
39	Delay efficient cooperation in public safety vehicular networks using LTE and IEEE 802.11p 2012 ,		18
38	Enhancing the QoS of real-time video streaming over LTE MBMS using D2D communications 2012 ,		2
37	An energy-efficient M2M communication method for leakage detection in underground water pipes 2012 ,		2
36	Cooperative wireless sensor networks for green internet of things 2012 ,		15
35	Distributed Load Balancing through Self Organisation of cell size in cellular systems 2012 ,		4
34	On real-time video streaming over LTE networks with mobile-to-mobile cooperation 2012 ,		12
33	Air Quality Monitoring and Prediction System Using Machine-to-Machine Platform. <i>Lecture Notes in Computer Science</i> , 2012 , 508-517	0.9	1
32	A Genetic Algorithm Solution for the Operation of Green LTE Networks with Energy and Environment Considerations. <i>Lecture Notes in Computer Science</i> , 2012 , 512-519	0.9	1
31	A novel distributed scheduling scheme for OFDMA uplink using channel information and probabilistic transmission. <i>Computer Communications</i> , 2011 , 34, 2104-2113	5.1	2
30	Interference mitigation and avoidance in uplink OFDMA with collaborative distributed intracell scheduling. <i>AEU - International Journal of Electronics and Communications</i> , 2011 , 65, 937-941	2.8	4
29	Scheduling in OFDMA Uplink With Imperfect CSI. <i>International Journal of Wireless Information Networks</i> , 2011 , 18, 73-79	1.9	
28	A Nash bargaining solution for energy-efficient content distribution over wireless networks with mobile-to-mobile cooperation 2011 ,		6
27	Novel time-frequency reservation Aloha scheme for OFDMA systems 2011 ,		2
26	Joint Uplink Scheduling and Interference Mitigation in Multicell LTE Networks 2011 ,		12
25	A multiorganism based method for Bayesian gene network estimation. <i>BioSystems</i> , 2011 , 103, 425-34	1.9	1
24	Achieving the Nash bargaining solution in OFDMA uplink using distributed scheduling with limited feedback. <i>AEU - International Journal of Electronics and Communications</i> , 2011 , 65, 320-330	2.8	14

23	An OFDMA communication protocol for wireless sensor networks used for leakage detection in underground water infrastructures 2011 ,		4
22	Enhancing the performance of OFDMA underlay cognitive radio networks via secondary pattern nulling and primary beam steering 2011 ,		9
21	Beam and RB allocation in LTE uplink with opportunistic beamforming 2011 ,		2
20	A comparison of uplink scheduling in OFDMA and SCFDMA 2010 ,		2
19	Ergodic sum-rate maximization in OFDMA uplink with discrete rates 2010 ,		3
18	Weighted ergodic sum-rate maximisation in uplink orthogonal frequency division multiple access and its achievable rate region. <i>IET Communications</i> , 2010 , 4, 2217	1.3	9
17	Proportional fair scheduling with probabilistic interference avoidance in the uplink of multicell OFDMA systems 2010 ,		11
16	A transparent pricing scheme for interference mitigation in uplink OFDMA with collaborative distributed scheduling 2010 ,		5
15	A Wireless Communications Laboratory on Cellular Network Planning. <i>IEEE Transactions on Education</i> , 2010 , 53, 653-661	2.1	10
14	Uplink scheduling in LTE systems using distributed base stations. <i>European Transactions on Telecommunications</i> , 2010 , 21, 532-543		12
13	On uplink OFDMA resource allocation with ergodic sum-rate maximization 2009 ,		14
12	Distributed uplink scheduling and rate control in cdma2000 using adaptive antenna arrays. <i>AEU - International Journal of Electronics and Communications</i> , 2009 , 63, 841-852	2.8	2
11	A Game Theoretical Formulation for Proportional Fairness in LTE Uplink Scheduling 2009 ,		42
10	Low complexity scheduling algorithms for the LTE uplink 2009 ,		19
9	Centralized and distributed LTE uplink scheduling in a distributed base station scenario 2009 ,		3
8	Directivity and Interference Tradeoffs with Cylindrical Antenna Arrays 2008 ,		1
7	A new multitask learning method for multiorganism gene network estimation 2008 ,		24
6	Reverse Link Rate Control in 1xEV-DO with Adaptive Antenna Arrays 2008 ,		1

5	Intercell Interference Reduction by the Use of Chebyshev Circular Antenna Arrays with Beam Steering 2007 ,	2	
4	Cylindrical Antenna Arrays for WCDMA Downlink Capacity Enhancement 2006 ,	6	
3	On Physical Layer Security of Double Shadowed Rician Fading Channels. <i>Wireless Personal Communications</i> ,1	1.9	0
2	Distributed Antenna Systems for Enhanced Video Transmission in LTE Public Safety Networks. <i>Advances in Wireless Technologies and Telecommunication Book Series</i> ,40-64	0.2	
1	A Game Theoretic Framework for Green HetNets Using D2D Traffic Offload and Renewable Energy Powered Base Stations. <i>Advances in Wireless Technologies and Telecommunication Book Series</i> ,333-367	0.2	1