

Mohamed M Abdallah

List of Publications by Year in Descending Order

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Version: 2024-04-26

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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.

146
papers

1,801
citations

22
h-index

34
g-index

184
ext. papers

2,408
ext. citations

4.4
avg, IF

5.53
L-index

#	Paper	IF	Citations
146	Privacy-Preserving Framework for Blockchain-Based Stock Exchange Platform. <i>IEEE Access</i> , 2022 , 10, 1202-1215	3.5	
145	Hierarchical Multi-Agent DRL-Based Framework for Joint Multi-RAT Assignment and Dynamic Resource Allocation in Next-Generation HetNets. <i>IEEE Transactions on Network Science and Engineering</i> , 2022 , 1-1	4.9	1
144	The Frontiers of Deep Reinforcement Learning for Resource Management in Future Wireless HetNets: Techniques, Challenges, and Research Directions. <i>IEEE Open Journal of the Communications Society</i> , 2022 , 3, 322-365	6.7	3
143	Deep Reinforcement Learning Powered IRS-Assisted Downlink NOMA. <i>IEEE Open Journal of the Communications Society</i> , 2022 , 1-1	6.7	7
142	Security and Privacy Issues in Autonomous Vehicles: A Layer-Based Survey. <i>IEEE Open Journal of the Communications Society</i> , 2022 , 3, 811-829	6.7	1
141	DRL-Based Joint RAT Association, Power and Bandwidth Optimization For Future HetNets. <i>IEEE Wireless Communications Letters</i> , 2022 , 1-1	5.9	
140	DRL-Based IRS-Assisted Secure Visible Light Communications. <i>IEEE Photonics Journal</i> , 2022 , 1-1	1.8	1
139	Distributed DRL-based Downlink Power Allocation for Hybrid RF/VLC Networks. <i>IEEE Photonics Journal</i> , 2021 , 1-1	1.8	2
138	AI-Based Radio Resource Allocation in Support of the Massive Heterogeneity of 6G Networks 2021 ,		5
137	2021 ,		4
136	Threshold-Based Data Exclusion Approach for Energy-Efficient Federated Edge Learning 2021 ,		3
135	DQN-Based Multi-User Power Allocation for Hybrid RF/VLC Networks 2021 ,		2
134	Emotion Recognition for Healthcare Surveillance Systems Using Neural Networks: A Survey 2021 ,		1
133	A Survey on Security and Privacy Issues in Edge-Computing-Assisted Internet of Things. <i>IEEE Internet of Things Journal</i> , 2021 , 8, 4004-4022	10.7	49
132	Fine-Grained Data Selection for Improved Energy Efficiency of Federated Edge Learning. <i>IEEE Transactions on Network Science and Engineering</i> , 2021 , 1-1	4.9	5
131	On optimal anchor placement for area-based localisation in wireless sensor networks. <i>IET Wireless Sensor Systems</i> , 2021 , 11, 67-77	1.6	2
130	Privacy-Preserving Blockchain-Based Energy Trading Schemes for Electric Vehicles. <i>IEEE Transactions on Vehicular Technology</i> , 2021 , 70, 9369-9384	6.8	11

129	Public Security Surveillance System Using Blockchain Technology and Advanced Image Processing Techniques 2020 ,			1
128	On Sharing Models Instead of Data using Mimic learning for Smart Health Applications 2020 ,			8
127	Malicious Node Detection in Wireless Sensor Network using Swarm Intelligence Optimization 2020 ,			4
126	Local Bitcoin Network Simulator for Performance Evaluation using Lightweight Virtualization 2020 ,			6
125	Outage Analysis of Cognitive Electric Vehicular Networks Over Mixed RF/VLC Channels. <i>IEEE Transactions on Cognitive Communications and Networking</i> , 2020 , 6, 1096-1107	6.6		6
124	Performance of Hybrid Cognitive RF/VLC Systems in Vehicle-to-Vehicle Communications 2020 ,			2
123	2020 ,			12
122	Detecting Sybil Attacks using Proofs of Work and Location in VANETs. <i>IEEE Transactions on Dependable and Secure Computing</i> , 2020 , 1-1	3.9		22
121	Incentivized and Secure Blockchain-based Firmware Update and Dissemination for Autonomous Vehicles 2020 , 475-493			2
120	B-Ride: Ride Sharing With Privacy-Preservation, Trust and Fair Payment Atop Public Blockchain. <i>IEEE Transactions on Network Science and Engineering</i> , 2020 , 1-1	4.9		55
119	Consortium Blockchain-Based Decentralized Stock Exchange Platform. <i>IEEE Access</i> , 2020 , 8, 123711-123725	3.25		11
118	Blockchain Based Trading Platform for Electric Vehicle Charging in Smart Cities. <i>IEEE Open Journal of Intelligent Transportation Systems</i> , 2020 , 1, 80-92	1.7		14
117	Performance Evaluation of Physical Attacks against E2E Autoencoder over Rayleigh Fading Channel 2020 ,			1
116	Secure Backhauling over Adaptive Parallel mmWave/FSO Link 2020 ,			6
115	2020 ,			13
114	2020 ,			12
113	Federated Mimic Learning for Privacy Preserving Intrusion Detection 2020 ,			5
112	Outage of Cognitive Electric Vehicle Networks Over Mixed RF/VLC Channels With Signal-Dependent Noise and Imperfect CSI. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 6828-6832	6.8		6

111	Resource Allocation for Downlink OFDMA in Underwater Visible Light Communications 2019 ,		5
110	Secrecy Performance of Decode-and-Forward Based Hybrid RF/VLC Relaying Systems. <i>IEEE Access</i> , 2019 , 7, 10844-10856	3.5	18
109	Efficient and Privacy-Preserving Ridesharing Organization for Transferable and Non-Transferable Services. <i>IEEE Transactions on Dependable and Secure Computing</i> , 2019 , 1-1	3.9	14
108	Secrecy Capacity of Hybrid RF/VLC DF Relaying Networks with Jamming 2019 ,		5
107	Joint Beamforming Design and Power Minimization for Friendly Jamming Relaying Hybrid RF/VLC Systems. <i>IEEE Photonics Journal</i> , 2019 , 11, 1-18	1.8	12
106	EPDA: Efficient and Privacy-Preserving Data Collection and Access Control Scheme for Multi-Recipient AMI Networks. <i>IEEE Access</i> , 2019 , 7, 27829-27845	3.5	15
105	On the Outage of Underlay CR-NOMA Networks With Detect-and-Forward Relaying. <i>IEEE Transactions on Cognitive Communications and Networking</i> , 2019 , 5, 795-804	6.6	35
104	Planar asymmetric nano-resonators for highly angle tolerant trans-reflective color filters. <i>OSA Continuum</i> , 2019 , 2, 890	1.4	2
103	Blockchain-based Firmware Update Scheme Tailored for Autonomous Vehicles 2019 ,		41
102	Future Communication Trends toward Internet of Things Services and Applications. <i>IEEE Wireless Communications</i> , 2019 , 26, 6-8	13.4	13
101	Outage Performance of Cooperative Underlay CR-NOMA With Imperfect CSI. <i>IEEE Communications Letters</i> , 2019 , 23, 176-179	3.8	63
100	Outage of SEE-OFDM VLC-NOMA Networks. <i>IEEE Photonics Technology Letters</i> , 2019 , 31, 121-124	2.2	6
99	Priority-Based and Privacy-Preserving Electric Vehicle Dynamic Charging System With Divisible E-Payment 2019 , 165-186		12
98	On the Feasibility of Interference Alignment in Compounded MIMO Broadcast Channels With Antenna Correlation and Mixed User Classes. <i>IEEE Transactions on Vehicular Technology</i> , 2018 , 67, 2130-2140	6.8	5
97	On the Performance of Wireless Powered Cognitive Relay Network With Interference Alignment. <i>IEEE Transactions on Communications</i> , 2018 , 66, 3825-3836	6.9	20
96	Visible Light Channel Modeling for Gas Pipelines. <i>IEEE Photonics Journal</i> , 2018 , 10, 1-10	1.8	5
95	Transmit Power Optimization for a Hybrid PLC/VLC/RF Communication System. <i>IEEE Transactions on Green Communications and Networking</i> , 2018 , 2, 234-245	4	42
94	Performance Evaluation of LOS and NLOS Vertical Inhomogeneous Links in Underwater Visible Light Communications. <i>IEEE Access</i> , 2018 , 6, 22408-22420	3.5	20

93	Secure Sum-Rate-Optimal MIMO Multicasting Over Medium-Voltage NB-PLC Networks. <i>IEEE Transactions on Smart Grid</i> , 2018 , 9, 2954-2963	10.7	5
92	On the Performance of NOMA-Enabled Spectrally and Energy Efficient OFDM (SEE-OFDM) for Indoor Visible Light Communications 2018 ,		9
91	Performance of Cooperative Underlay CR-NOMA Networks over Nakagami-m Channels 2018 ,		14
90	A novel bandwidth and power allocation scheme for power efficient hybrid RF/VLC indoor systems. <i>Physical Communication</i> , 2018 , 31, 187-195	2.2	7
89	Diversity Order Results for MIMO Optical Wireless Communications. <i>IEEE Wireless Communications Letters</i> , 2018 , 7, 74-77	5.9	6
88	Impact of blue filtering on effective modulation bandwidth and wide-angle operation in white LED-based VLC systems. <i>OSA Continuum</i> , 2018 , 1, 910	1.4	2
87	Outage Probability of the EH-Based Full-Duplex AF and DF Relaying Systems in α - μ Environment 2018 ,		7
86	2018 ,		3
85	Outage Performance of Underlay CR-NOMA Networks with Detect-and-Forward Relaying 2018 ,		15
84	Privacy-Preserving Collection of Power Consumption Data for Enhanced AMI Networks 2018 ,		6
83	Outage Performance of Underlay CR-NOMA Networks 2018 ,		4
82	Experimental Evaluation of OFDM-Based Underwater Visible Light Communication System. <i>IEEE Photonics Journal</i> , 2018 , 10, 1-13	1.8	15
81	On the Performance Analysis of WPT-Based Dual-Hop AF Relaying Networks in α - μ Fading. <i>IEEE Access</i> , 2018 , 6, 37138-37149	3.5	14
80	. <i>IEEE Transactions on Smart Grid</i> , 2017 , 8, 1075-1084	10.7	36
79	Code Design for Flicker Mitigation in Visible Light Communications Using Finite State Machines. <i>IEEE Transactions on Communications</i> , 2017 , 65, 2091-2100	6.9	24
78	Power Efficient Downlink Resource Allocation for Hybrid RF/VLC Wireless Networks 2017 ,		10
77	Error performance of wireless powered cognitive relay networks with interference alignment 2017 ,		13
76	Beamforming and power allocation for physical-layer security in hybrid RF/VLC wireless networks 2017 ,		17

75	Performance Analysis of Single-Photon Avalanche Diode Underwater VLC System Using ARQ. <i>IEEE Photonics Journal</i> , 2017 , 9, 1-11	1.8	28
74	Angle-tolerant hybrid plasmonic filters for visible light communications. <i>Applied Optics</i> , 2017 , 56, C106-C116		6
73	Performance analysis of adaptive modulation in underwater visible light communications 2017 ,		2
72	Achievable Rate-Region of VLC/RF Communications with an Energy Harvesting Relay 2017 ,		20
71	Ergodic Capacity Analysis of Wireless Powered AF Relaying Systems over alpha- μ Fading Channels 2017 ,		3
70	On the Capacity of Wireless Powered Cognitive Relay Network with Interference Alignment 2017 ,		14
69	Planar broad-band and wide-angle hybrid plasmonic IMI filters with induced transmission for visible light applications. <i>Applied Optics</i> , 2017 , 56, 8751-8758	1.7	5
68	Effect of eddy diffusivity ratio on underwater optical scintillation index. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2017 , 34, 1969-1973	1.8	47
67	Simple statistical channel model for weak temperature-induced turbulence in underwater wireless optical communication systems. <i>Optics Letters</i> , 2017 , 42, 2455-2458	3	61
66	A VLC-based system for optical SPR sensing facility 2016 ,		2
65	Energy Efficient Resource Allocation for Mixed RF/VLC Heterogeneous Wireless Networks. <i>IEEE Journal on Selected Areas in Communications</i> , 2016 , 34, 883-893	14.2	124
64	Visible Light Communications for Energy Efficient Heterogeneous Wireless Networks. <i>Studies in Systems, Decision and Control</i> , 2016 , 299-317	0.8	1
63	On the Impact of PLC Backhauling in Multi-User Hybrid VLC/RF Communication Systems 2016 ,		10
62	Reconfigurable Antenna-Based Space-Shift Keying for Spectrum Sharing Systems Under Rician Fading. <i>IEEE Transactions on Communications</i> , 2016 , 64, 3970-3980	6.9	13
61	Reconfigurable antenna-based space-shift keying for spectrum sharing systems 2016 ,		1
60	2015 ,		1
59	. <i>IEEE Transactions on Smart Grid</i> , 2015 , 6, 1934-1943	10.7	55
58	Power allocation for downlink multi-user SC-FDMA visible light communication systems 2015 ,		8

57	IDC Interference-Aware Resource Allocation for LTE/WLAN Heterogeneous Networks. <i>IEEE Wireless Communications Letters</i> , 2015 , 4, 581-584	5.9	1
56	Optimal planning of fast PEV charging facilities 2015 ,		13
55	Joint Subcarrier and Antenna State Selection for Cognitive Heterogeneous Networks With Reconfigurable Antennas. <i>IEEE Transactions on Communications</i> , 2015 , 63, 4015-4025	6.9	9
54	Performance analysis of switch-based multiuser scheduling schemes with adaptive modulation in spectrum sharing systems. <i>Wireless Communications and Mobile Computing</i> , 2015 , 15, 2095-2110	1.9	
53	2015 ,		9
52	Power allocation for maximizing energy efficiency of mixed RF/VLC wireless networks 2015 ,		7
51	On the Achievable Rate of a Hybrid PLC/VLC/RF Communication System 2015 ,		13
50	Energy storage sizing for peak hour utility applications 2015 ,		4
49	Coordinated Interference Management for Visible Light Communication Systems. <i>Journal of Optical Communications and Networking</i> , 2015 , 7, 1098	4.1	21
48	Best Relay Selection for DF Underlay Cognitive Networks with Different Modulation Levels. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2015 , 282-294	0.2	
47	Network Coding versus Replication Based Resilient Techniques to Mitigate Insider Attacks for Smart Metering. <i>International Journal of Distributed Sensor Networks</i> , 2015 , 11, 737269	1.7	
46	Hybrid radio-visible light downlink performance in RF sensitive indoor environments 2014 ,		16
45	. <i>IEEE Transactions on Vehicular Technology</i> , 2014 , 63, 4408-4421	6.8	1
44	Ray tracing based channel modeling for visible light communications 2014 ,		21
43	Indoor channel modelling and characterization for visible light communications 2014 ,		23
42	Reduced outage probability relay selection for underlay cognitive networks 2014 ,		4
41	Outage analysis of incremental opportunistic regenerative relaying with outdated CSI under spectrum sharing constraints 2014 ,		5
40	2014 ,		3

39	Single photon avalanche diode (SPAD) VLC system and application to downhole monitoring 2014,		28
38	A survey on energy trading in smart grid 2014,		42
37	The impact of location errors on achievable rates in OFDM-based multi-user visible light communication systems 2014,		5
36	A pricing-based load shifting framework for EV fast charging stations 2014,		15
35	On the benefits of cooperation via power control in OFDM-based visible light communication systems 2014,		9
34	Modelling of parameters of Rician fading distribution as a function of polarization parameter in reconfigurable antenna 2014,		5
33	2014,		4
32	A performance study of two hop transmission in mixed underlay RF and FSO fading channels 2014,		23
31	Outage performance analysis of underlay cognitive RF and FSO wireless channels 2014,		21
30	On the performance of subcarrier allocation techniques for multiuser OFDM cognitive networks with reconfigurable antennas 2014,		3
29	Outage Analysis of Spectrum Sharing Cognitive DF Relay Networks Using Outdated CSI. <i>IEEE Communications Letters</i> , 2013 , 17, 2272-2275	3.8	12
28	Power optimization and kth order selective relaying in free space optical networks 2013,		1
27	Joint Switched Multi-Spectrum and Transmit Antenna Diversity for Spectrum Sharing Systems. <i>IEEE Transactions on Wireless Communications</i> , 2013 , 12, 4827-4839	9.6	1
26	A Study on Inter-Cell Subcarrier Collisions due to Random Access in OFDM-Based Cognitive Radio Networks. <i>IEEE Transactions on Communications</i> , 2013 , 61, 1695-1707	6.9	1
25	Relay selection in underlay cognitive networks with fixed transmission power nodes. <i>Transactions on Emerging Telecommunications Technologies</i> , 2013 , 24, 734-747	1.9	9
24	Performance Analysis of Joint Multi-Branch Switched Diversity and Adaptive Modulation Schemes for Spectrum Sharing Systems. <i>IEEE Transactions on Communications</i> , 2012 , 60, 3609-3619	6.9	8
23	Adaptive Discrete Rate and Power Transmission for Spectrum Sharing Systems. <i>IEEE Transactions on Wireless Communications</i> , 2012 , 11, 1283-1289	9.6	13
22	Random Subcarrier Allocation in OFDM-Based Cognitive Radio Networks. <i>IEEE Transactions on Signal Processing</i> , 2012 , 60, 4758-4774	4.8	23

21	Joint multiuser switched diversity and adaptive modulation schemes for spectrum sharing systems 2012,		1
20	Best relay selection using SNR and interference quotient for underlay cognitive networks 2012,		17
19	Spectrally Efficient Switched Transmit Diversity for Spectrum Sharing Systems 2011,		5
18	Joint Switched Transmit Diversity and Adaptive Modulation in Spectrum Sharing Systems 2011,		3
17	Adaptive rate transmission for spectrum sharing system with quantized channel state information 2011,		4
16	Dual Branch Transmit Switch-and-Stay Diversity for Underlay Cognitive Networks 2011,		2
15	Performance analysis of selective cooperation in underlay cognitive networks over Rayleigh channels 2011,		25
14	Switch and examine transmit diversity for spectrum sharing systems 2011,		1
13	Time of arrival based location estimation for cooperative relay networks 2010,		4
12	Cognitive Relaying in Wireless Sensor Networks: Performance Analysis and Optimization 2010,		12
11	Discrete rate and variable power adaptation for underlay cognitive networks 2010,		6
10	An RSS based location estimation technique for cognitive relay networks 2010,		2
9	2009,		1
8	Cognitive interference-minimizing code assignment for underlay CDMA networks in asynchronous multipath fading channels 2009,		4
7	CDMA underlay network with cognitive interference-minimizing code assignment and semi-blind interference suppression. <i>Wireless Communications and Mobile Computing</i> , 2009 , 9, 1460-1471	1.9	10
6	Efficient FPGA Implementation of MIMO Decoder for Mobile WiMAX System 2009,		11
5	Revisiting active cancellation carriers for shaping the spectrum of OFDM-based Cognitive Radios 2009,		15
4	Beamforming Algorithms for Information Relaying in Wireless Sensor Networks. <i>IEEE Transactions on Signal Processing</i> , 2008 , 56, 4772-4784	4.8	24

3	Novel Printed Monopole Coupled Loop Antenna. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2008 , 7, 221-224	3.8	5
2	Multivariate analysis for probabilistic WLAN location determination systems 2005 ,		27
1	Performance Analysis and Estimation of Call Admission Control Parameters in Wireless Integrated Voice and Data Networks. <i>European Transactions on Telecommunications</i> , 2000 , 11, 327-343		1