

Ehab Mahmoud Mohamed

List of Publications by Year in descending order

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Version: 2024-02-01

90
papers

1,309
citations

361045

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454577

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g-index

91
all docs

91
docs citations

91
times ranked

856
citing authors

#	ARTICLE	IF	CITATIONS
1	Intelligent Reflecting Surface Aided Dual-Function Radar and Communication System. IEEE Systems Journal, 2022, 16, 475-486.	2.9	82
2	A Trust-Based Energy-Efficient and Reliable Communication Scheme (Trust-Based ERCS) for Remote Patient Monitoring in Wireless Body Area Networks. IEEE Access, 2020, 8, 131397-131413.	2.6	74
3	Modeling, Simulation and Optimization of Power Plant Energy Sustainability for IoT Enabled Smart Cities Empowered With Deep Extreme Learning Machine. IEEE Access, 2020, 8, 39982-39997.	2.6	58
4	Millimeter-Wave Wireless LAN and Its Extension toward 5G Heterogeneous Networks. IEICE Transactions on Communications, 2015, E98.B, 1932-1948.	0.4	53
5	Location-Based Millimeter Wave Multi-Level Beamforming Using Compressive Sensing. IEEE Communications Letters, 2018, 22, 185-188.	2.5	46
6	Spectral Efficient Spatial Modulation Techniques. IEEE Access, 2019, 7, 1454-1469.	2.6	39
7	Effective Demand Forecasting Model Using Business Intelligence Empowered With Machine Learning. IEEE Access, 2020, 8, 116013-116023.	2.6	39
8	The magnetic field on a nanofluid flow within a finned cavity containing solid particles. Case Studies in Thermal Engineering, 2021, 25, 100945.	2.8	37
9	Wi-Fi Coordinated WiGig Concurrent Transmissions in Random Access Scenarios. IEEE Transactions on Vehicular Technology, 2017, 66, 10357-10371.	3.9	34
10	Neighbor Discovery and Selection in Millimeter Wave D2D Networks Using Stochastic MAB. IEEE Communications Letters, 2020, 24, 1840-1844.	2.5	33
11	On-Demand Hybrid Routing for Cognitive Radio Ad-Hoc Network. IEEE Access, 2016, 4, 8294-8302.	2.6	32
12	Relay Probing for Millimeter Wave Multi-Hop D2D Networks. IEEE Access, 2020, 8, 30560-30574.	2.6	31
13	An Efficient Paradigm for Multiband WiGig D2D Networks. IEEE Access, 2019, 7, 70032-70045.	2.6	28
14	LTE/Wi-Fi/mmWave RAN-Level Interworking Using 2C/U Plane Splitting for Future 5G Networks. IEEE Access, 2018, 6, 53473-53488.	2.6	27
15	Leveraging Machine-Learning for D2D Communications in 5G/Beyond 5G Networks. Electronics (Switzerland), 2021, 10, 169.	1.8	26
16	Gateway Selection in Millimeter Wave UAV Wireless Networks Using Multi-Player Multi-Armed Bandit. Sensors, 2020, 20, 3947.	2.1	23
17	Energy Aware Multiarmed Bandit for Millimeter Wave-Based UAV Mounted RIS Networks. IEEE Wireless Communications Letters, 2022, 11, 1293-1297.	3.2	23
18	On Softwarization of Intelligence in 6G Networks for Ultra-Fast Optimal Policy Selection: Challenges and Opportunities. IEEE Network, 2023, 37, 190-197.	4.9	21

#	ARTICLE	IF	CITATIONS
19	Li-Fi Positioning for Efficient Millimeter Wave Beamforming Training in Indoor Environment. <i>Mobile Networks and Applications</i> , 2019, 24, 517-531.	2.2	20
20	A Novel and Efficient Multiple RGB Images Cipher Based on Chaotic System and Circular Shift Operations. <i>IEEE Access</i> , 2020, 8, 146408-146427.	2.6	20
21	Two-Hop Relay Probing in WiGig Device-to-Device Networks Using Sleeping Contextual Bandits. <i>IEEE Wireless Communications Letters</i> , 2021, 10, 1581-1585.	3.2	20
22	Energy-Aware Hybrid RF-VLC Multiband Selection in D2D Communication: A Stochastic Multiarmed Bandit Approach. <i>IEEE Internet of Things Journal</i> , 2022, 9, 18002-18014.	5.5	18
23	Millimeter wave beamforming based on WiFi fingerprinting in indoor environment. , 2015, , .		17
24	Adaptive location-based millimetre wave beamforming using compressive sensing based channel estimation. <i>IET Communications</i> , 2019, 13, 1287-1296.	1.5	17
25	Double-diffusive convection from a rotating rectangle in a finned cavity filled by a nanofluid and affected by a magnetic field. <i>International Communications in Heat and Mass Transfer</i> , 2021, 126, 105363.	2.9	17
26	Sleeping Contextual/Non-Contextual Thompson Sampling MAB for mmWave D2D Two-Hop Relay Probing. <i>IEEE Transactions on Vehicular Technology</i> , 2021, 70, 12101-12112.	3.9	16
27	Leveraging Machine Learning for Millimeter Wave Beamforming in Beyond 5G Networks. <i>IEEE Systems Journal</i> , 2022, 16, 1739-1750.	2.9	16
28	Ant Lion Optimizer Based Clustering Algorithm for Wireless Body Area Networks in Livestock Industry. <i>IEEE Access</i> , 2021, 9, 114495-114513.	2.6	15
29	Wi-Fi Assisted Contextual Multi-Armed Bandit for Neighbor Discovery and Selection in Millimeter Wave Device to Device Communications. <i>Sensors</i> , 2021, 21, 2835.	2.1	15
30	Spectrum Sharing in Cognitive-Radio-Inspired NOMA Systems Under Imperfect SIC and Cochannel Interference. <i>IEEE Systems Journal</i> , 2022, 16, 1540-1547.	2.9	15
31	CMCS: a cross-layer mobility-aware MAC protocol for cognitive radio sensor networks. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2016, 2016, .	1.5	14
32	Millimeter-Wave Concurrent Beamforming: A Multi-Player Multi-Armed Bandit Approach. <i>Computers, Materials and Continua</i> , 2020, 65, 1987-2007.	1.5	14
33	Improved Cognitive Radio energy detection algorithm based upon noise uncertainty estimation. , 2014, , .		13
34	Millimeter wave location-based beamforming using compressive sensing. , 2016, , .		13
35	Energy-Efficient Centrally Controlled Caching Contents for Information-Centric Internet of Things. <i>IEEE Access</i> , 2020, 8, 126358-126369.	2.6	13
36	Two-Stage Multiarmed Bandit for Reconfigurable Intelligent Surface Aided Millimeter Wave Communications. <i>Sensors</i> , 2022, 22, 2179.	2.1	13

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37	Adaptive Channel Estimation for MIMO-Constant Envelope Modulation. IEICE Transactions on Communications, 2012, E95.B, 2393-2404.	0.4	12
38	Soft decision cooperative spectrum sensing with noise uncertainty reduction. Pervasive and Mobile Computing, 2017, 35, 146-164.	2.1	12
39	Millimeter Wave Beamforming Training Based on Li-Fi Localization in Indoor Environment. , 2017, , .		12
40	Cryptanalysis and Improvement of a Proxy Signcryption Scheme in the Standard Computational Model. IEEE Access, 2020, 8, 131188-131201.	2.6	12
41	Joint users selection and beamforming in downlink millimetre-wave NOMA based on users positioning. IET Communications, 2020, 14, 1234-1240.	1.5	12
42	Double diffusion in a nanofluid cavity with a wavy hot source subjected to a magnetic field using ISPH method. AEJ - Alexandria Engineering Journal, 2021, 60, 1647-1664.	3.4	12
43	Channel estimation technique for MIMO-constant envelope modulation. , 2011, , .		11
44	Affine linear transformation based sphere decoder for 1-bit ADC MIMO-constant envelope modulation. , 2016, , .		11
45	A comparative study on underwater communications for enabling C/U plane splitting based hybrid UWSNs. , 2018, , .		11
46	Composite Fading Model for Aerial MIMO FSO Links in the Presence of Atmospheric Turbulence and Pointing Errors. IEEE Wireless Communications Letters, 2021, 10, 1295-1299.	3.2	11
47	A complexity efficient equalization technique for MIMO-constant envelope modulation. , 2013, , .		10
48	Analysis for Disease Gene Association Using Machine Learning. IEEE Access, 2020, 8, 160616-160626.	2.6	10
49	A Lightweight and Secure Attribute-Based Multi Receiver Generalized Signcryption Scheme for Body Sensor Networks. IEEE Access, 2020, 8, 200283-200304.	2.6	10
50	Towards the Design of Efficient and Secure Architecture for Software-Defined Vehicular Networks. Sensors, 2021, 21, 3902.	2.1	10
51	Enhanced Dynamic Spectrum Access in UAV Wireless Networks for Post-Disaster Area Surveillance System: A Multi-Player Multi-Armed Bandit Approach. Sensors, 2021, 21, 7855.	2.1	10
52	Delayed offloading using cloud cooperated millimeter wave gates. , 2014, , .		9
53	Soft decision Cooperative Spectrum Sensing based upon noise uncertainty estimation. , 2015, , .		9
54	Multiagent Multi-Armed Bandit Schemes for Gateway Selection in UAV Networks. , 2020, , .		9

#	ARTICLE	IF	CITATIONS
55	Improved UCB-based Energy-Efficient Channel Selection in Hybrid-Band Wireless Communication. , 2021, , .		9
56	Millimeter wave beamforming training, discovery and association using WiFi positioning in outdoor urban environment. , 2016, , .		8
57	Static and dynamic channel estimation techniques for MIMO-Constant Envelope Modulation. , 2011, , .		7
58	Delayed offloading zone associations using cloud cooperated heterogeneous networks. , 2015, , .		7
59	Resources Allocation in Underlay Device-to-Device Communications Networks: A Reduced-Constraints Approach. IEEE Access, 2020, 8, 228891-228904.	2.6	7
60	Experimental work on WiGig coverage area management and beamforming training using Wi-Fi fingerprint. , 2017, , .		6
61	WiFi assisted multi-WiGig AP coordination for future multi-Gbps WLANs. , 2015, , .		5
62	Adaptive sphere decoder for 1-bit ADC MIMO-constant envelope modulation detection. , 2017, , .		5
63	Rotating cylinder and magnetic field on solid particles diffusion inside a porous cavity filled with a nanofluid. Nanomaterials and Nanotechnology, 2021, 11, 184798042110342.	1.2	5
64	Multiagent Multi-Armed Bandit Techniques for Millimeter Wave Concurrent Beamforming. , 2020, , .		5
65	Minimax Optimal Stochastic Strategy (MOSS) For Neighbor Discovery and Selection In Millimeter Wave D2D Networks. , 2020, , .		5
66	WiGig Wireless Sensor Selection Using Sophisticated Multi Armed Bandit Schemes. , 2021, , .		5
67	Cloud Cooperated Heterogeneous Cellular Networks for Delayed Offloading using Millimeter Wave Gates. International Journal of Electronics and Telecommunications, 2017, 63, 51-64.	0.6	4
68	Low complexity MIMO detection technique for 1-bit ADC MIMO-CEM using adaptive sphere decoding. , 2017, , .		4
69	Predictive Wireless Channel Modeling of MmWave Bands Using Machine Learning. Electronics (Switzerland), 2021, 10, 3114.	1.8	4
70	WiGig access point selection using non-contextual and contextual multi-armed bandit in indoor environment. Journal of Ambient Intelligence and Humanized Computing, 2023, 14, 11833-11848.	3.3	4
71	Cost-Aware Bandits for Efficient Channel Selection in Hybrid Band Networks. Electronics (Switzerland), 2022, 11, 1782.	1.8	4
72	Wi-Fi/WiGig Coordination for Optimal WiGig Concurrent Transmissions in Random Access Scenarios. , 2016, , .		3

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73	Efficient mm Wave Link Establishment and Maintaining Using Wi- Fi/mm Wave Interworking. , 2018, , .		3
74	Wi-Fi Assisted Two-Hop Relay Probing in WiGig Device to Device Networks. , 2021, , .		3
75	Cross-layer mobility-aware MAC protocol for cognitive radio sensor network. , 2015, , .		2
76	Dynamic threshold hard decision cooperative spectrum sensing using two-stage censoring. , 2016, , .		2
77	Low complexity channel estimation technique for 1- bit ADC MIMO-constant envelope modulation using compressive sensing. , 2017, , .		2
78	New CAPWAP architectures for IEEE 802.11ad based Wi-Fi/WiGig WLANs. , 2018, , .		2
79	Tightly coupled LTE/Wi-Fi/mmWave HetNet using 2C/U plane splitting for 5G networks. , 2018, , .		2
80	Outage and capacity analysis of NOMA systems over dual-hop mixed powerline-wireless channels. ICT Express, 2023, 9, 601-607.	3.3	2
81	Comparative study of channel coding techniques for MIMO-CEM system with IF sampled 1-bit ADC. , 2017, , .		1
82	BER enhancement for 1-bit ADC MIMO-CEM system using selective channel coding technique. , 2018, , .		1
83	Comparative study on millimeter wave location-based beamforming. , 2018, , .		1
84	WiGig Coverage Area Management Based on Wi-Fi Received Signal Strength. , 2018, , .		1
85	Adaptive Sparsity Based Channel Estimator for 1-Bit ADC MIMO-Constant Envelope Modulation. , 2018, , .		1
86	DRCS-SR: Deep Robust Compressed Sensing for Single Image Super-Resolution. IEEE Access, 2020, 8, 170618-170634.	2.6	1
87	Numerical simulations of solid particles dispersion during double-diffusive convection of a nanofluid in a cavity with a wavy source. Archive of Applied Mechanics, 2021, 91, 2089-2108.	1.2	1
88	Decision Directed Channel Tracking for MIMO-Constant Envelope Modulation. Communications in Computer and Information Science, 2011, , 619-633.	0.4	1
89	Natural convection of a heated paddle wheel within a cross-shaped cavity filled with a nanofluid: ISPH simulations. Archive of Applied Mechanics, 2021, 91, 4441-4458.	1.2	0
90	Novel fast session transfer decisionâ€making algorithm using fuzzy logic for Wiâ€Fi/WiGig wireless local area networks. IET Communications, 2020, 14, 3917-3926.	1.5	0