

Abolfazl Mehbodniya

List of Publications by Year in descending order

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105
papers

1,070
citations

471509

17
h-index

642732

23
g-index

106
all docs

106
docs citations

106
times ranked

798
citing authors

#	ARTICLE	IF	CITATIONS
1	Decentralized Energy Allocation for Wireless Networks With Renewable Energy Powered Base Stations. IEEE Transactions on Communications, 2015, 63, 2126-2142.	7.8	41
2	Financial Fraud Detection in Healthcare Using Machine Learning and Deep Learning Techniques. Security and Communication Networks, 2021, 2021, 1-8.	1.5	39
3	Sparse signal recovery with OMP algorithm using sensing measurement matrix. IEICE Electronics Express, 2011, 8, 285-290.	0.8	30
4	Fetal health classification from cardiotocographic data using machine learning. Expert Systems, 2022, 39, e12899.	4.5	30
5	A fuzzy extension of VIKOR for target network selection in heterogeneous wireless environments. Physical Communication, 2013, 7, 145-155.	2.1	28
6	Online Ski Rental for ON/OFF Scheduling of Energy Harvesting Base Stations. IEEE Transactions on Wireless Communications, 2017, 16, 2976-2990.	9.2	28
7	Patient Behavioral Analysis with Smart Healthcare and IoT. Behavioural Neurology, 2021, 2021, 1-9.	2.1	28
8	Dominant Feature Selection and Machine Learning-Based Hybrid Approach to Analyze Android Ransomware. Security and Communication Networks, 2021, 2021, 1-22.	1.5	25
9	Sojourn Time-Based Velocity Estimation in Small Cell Poisson Networks. IEEE Communications Letters, 2016, 20, 340-343.	4.1	24
10	Machine Learning Techniques for the Prediction of B-Cell and T-Cell Epitopes as Potential Vaccine Targets with a Specific Focus on SARS-CoV-2 Pathogen: A Review. Pathogens, 2022, 11, 146.	2.8	23
11	Distributed Learning for Energy-Efficient Resource Management in Self-Organizing Heterogeneous Networks. IEEE Transactions on Vehicular Technology, 2017, 66, 9287-9303.	6.3	22
12	Ensemble Machine Learning Model to Predict SARS-CoV-2 T-Cell Epitopes as Potential Vaccine Targets. Diagnostics, 2021, 11, 1990.	2.6	22
13	Proportional Fairness Based Energy Efficient Routing in Wireless Sensor Network. Computer Systems Science and Engineering, 2022, 41, 1071-1082.	2.4	22
14	Sparse LMS/F algorithms with application to adaptive system identification. Wireless Communications and Mobile Computing, 2015, 15, 1649-1658.	1.2	20
15	Decision tree based ensemble machine learning model for the prediction of Zika virus T-cell epitopes as potential vaccine candidates. Scientific Reports, 2022, 12, 7810.	3.3	20
16	Least mean square/fourth algorithm for adaptive sparse channel estimation. , 2013, , .		19
17	Modified Lamport Merkle Digital Signature blockchain framework for authentication of internet of things healthcare data. Expert Systems, 2022, 39, .	4.5	19
18	Analysis of Network Slicing for Management of 5G Networks Using Machine Learning Techniques. Wireless Communications and Mobile Computing, 2022, 2022, 1-10.	1.2	18

#	ARTICLE	IF	CITATIONS
19	Minimizing Base Stationsâ€™ ON/OFF Switchings in Self-Organizing Heterogeneous Networks: A Distributed Satisfactory Framework. IEEE Access, 2017, 5, 26267-26278.	4.2	17
20	Study on idle slot availability prediction for WLAN using a probabilistic neural network. , 2017, , .		17
21	Distributed optimization of heterogeneous UAV cluster PID controller based on machine learning. Computers and Electrical Engineering, 2022, 101, 108059.	4.8	17
22	Dynamic target wireless network selection technique using fuzzy linguistic variables. China Communications, 2013, 10, 1-16.	3.2	16
23	Fuzzy-Based Game Theoretic Mobility Management for Energy Efficient Operation in HetNets. IEEE Access, 2017, 5, 7542-7552.	4.2	16
24	A Fuzzy Preprocessing Module for Optimizing the Access Network Selection in Wireless Networks. Advances in Fuzzy Systems, 2013, 2013, 1-9.	0.9	15
25	Online ski rental for scheduling self-powered, energy harvesting small base stations. , 2016, , .		15
26	An integrated approach for sustainable development of wastewater treatment and management system using IoT in smart cities. Soft Computing, 2023, 27, 5159-5175.	3.6	15
27	A fuzzy MADM ranking approach for vertical mobility in next generation hybrid networks. , 2012, , .		14
28	Blockchain and IPFS Integrated Framework in Bilevel Fog-Cloud Network for Security and Privacy of IoT Devices. Computational and Mathematical Methods in Medicine, 2021, 2021, 1-9.	1.3	14
29	IoT-Enabled Framework for Early Detection and Prediction of COVID-19 Suspects by Leveraging Machine Learning in Cloud. Journal of Healthcare Engineering, 2022, 2022, 1-16.	1.9	14
30	A Secure and Privacy Preserved Parking Recommender System Using Elliptic Curve Cryptography and Local Differential Privacy. IEEE Access, 2022, 10, 56410-56426.	4.2	14
31	Ultra wideband technologies coexistence in Nakagami-m fading channels. IET Communications, 2009, 3, 1081.	2.2	13
32	Coexistence Between DS-UWB and MB-OFDM: Analysis and Interference Mitigation. , 2007, , .		12
33	Effects of MB-OFDM System Interference on the Performance of DS-UWB. IEEE Transactions on Vehicular Technology, 2009, 58, 4665-4669.	6.3	12
34	A Handoff Algorithm Based on Estimated Load for Dense Green 5G Networks. , 2015, , .		12
35	Outage and BER Analysis for Ultrawideband-Based WPAN in Nakagami- m Fading Channels. IEEE Transactions on Vehicular Technology, 2011, 60, 3515-3520.	6.3	11
36	Energy-Aware Routing Protocol with Fuzzy Logic in Industrial Internet of Things with Blockchain Technology. Wireless Communications and Mobile Computing, 2022, 2022, 1-15.	1.2	11

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37	Active and Reactive Power Management in the Smart Distribution Network Enriched with Wind Turbines and Photovoltaic Systems. Sustainability, 2022, 14, 4273.	3.2	11
38	Learning-based joint power and channel assignment for hyper dense 5G networks. , 2016, , .		10
39	Study on Fading Prediction for Automated Guided Vehicle Using Probabilistic Neural Network. , 2018, , .		10
40	A Novel Technique for Detection of Time Delay Switch Attack on Load Frequency Control. Intelligent Control and Automation, 2015, 06, 205-214.	0.8	10
41	Smartphone-Based mHealth and Internet of Things for Diabetes Control and Self-Management. Journal of Healthcare Engineering, 2021, 2021, 1-10.	1.9	10
42	Multilayer Reversible Data Hiding Based on the Difference Expansion Method Using Multilevel Thresholding of Host Images Based on the Slime Mould Algorithm. Processes, 2022, 10, 858.	2.8	10
43	Variable is good: Adaptive sparse channel estimation using VSS-ZA-NLMS algorithm. , 2013, , .		9
44	Wireless network access selection scheme for heterogeneous multimedia traffic. IET Networks, 2013, 2, 214-223.	1.8	9
45	Fuzzy logic game-theoretic approach for energy efficient operation in HetNets. , 2017, , .		9
46	Intrusion detection and mitigation of attacks in microgrid using enhanced deep belief network. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2024, 46, 1519-1541.	2.3	9
47	Telemetry Data Compression Algorithm Using Balanced Recurrent Neural Network and Deep Learning. Computational Intelligence and Neuroscience, 2022, 2022, 1-10.	1.7	9
48	Intelligent gravitational search random forest algorithm for fake news detection. International Journal of Modern Physics C, 2022, 33, .	1.7	9
49	An Autonomous Home Energy Management System Using Dynamic Priority Strategy in Conventional Homes. Energies, 2020, 13, 3312.	3.1	8
50	Human Motion Patterns Recognition based on RSS and Support Vector Machines. , 2020, , .		8
51	A Location-Aware Vertical Handoff Algorithm for Hybrid Networks. Journal of Communications, 2010, 5, .	1.6	8
52	Improved Human Activity Recognition Using Majority Combining of Reduced-Complexity Sensor Branch Classifiers. Electronics (Switzerland), 2022, 11, 392.	3.1	8
53	COMPRESSIVE ESTIMATION OF CLUSTER-SPARSE CHANNELS. Progress in Electromagnetics Research C, 2011, 24, 251-263.	0.9	7
54	Adaptive sparse channel estimation using re-weighted zero-attracting normalized least mean fourth. , 2013, , .		7

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55	Bayesian Sparse Channel Estimation and Data Detection for OFDM Communication Systems. , 2013, , .		7
56	Two Are Better Than One: Adaptive Sparse System Identification Using Affine Combination of Two Sparse Adaptive Filters. , 2014, , .		7
57	Study on channel prediction for automated guided vehicle using a probabilistic neural network. IEICE Communications Express, 2019, 8, 311-317.	0.4	7
58	Machine Learning-based RSSI Prediction in Factory Environments. , 2019, , .		7
59	WLAN Interference Identification Using a Convolutional Neural Network for Factory Environments. Journal of Communications, 2021, , 276-283.	1.6	7
60	Finger-Gesture Recognition for Visible Light Communication Systems Using Machine Learning. Applied Sciences (Switzerland), 2021, 11, 11582.	2.5	7
61	Data Mining in Employee Healthcare Detection Using Intelligence Techniques for Industry Development. Journal of Healthcare Engineering, 2022, 2022, 1-11.	1.9	7
62	Adaptive Sparse Channel Estimation for Time-Variant MIMO Communication Systems. , 2013, , .		6
63	A Handoff Algorithm Based on Estimated Load for Dense Green 5G Networks. , 2014, , .		6
64	Two Novel Handover Algorithms with Load Balancing for Heterogeneous Network. , 2015, , .		6
65	A distributed learning-based user association for heterogeneous networks. Transactions on Emerging Telecommunications Technologies, 2017, 28, e3192.	3.9	6
66	Optimized WLAN Channel Allocation based on Gibbs Sampling with Busy Prediction using a Probabilistic Neural Network. , 2019, , .		6
67	Performance Analysis of MB-OFDM in the Presence of Multiple UWB Interferers. , 2007, , .		5
68	A dynamic weighting of attributes in heterogeneous wireless networks using fuzzy linguistic variables. , 2012, , .		5
69	Energy-efficient dynamic spectrum access in wireless heterogeneous networks. , 2015, , .		5
70	Online Channel Allocation for Full-Duplex Device-to-Device Communications. , 2016, , .		5
71	Zika Virus Prediction Using AI-Driven Technology and Hybrid Optimization Algorithm in Healthcare. Journal of Healthcare Engineering, 2022, 2022, 1-13.	1.9	5
72	Compressed Channel Estimation for Sparse Multipath Non-Orthogonal Amplify-and-Forward Cooperative Networks. , 2012, , .		4

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73	Performance of DS-UWB in MB-OFDM and multi-user interference over Nakagami-m fading channels. <i>Wireless Communications and Mobile Computing</i> , 2012, 12, 1538-1545.	1.2	4
74	A novel wireless network access selection scheme for heterogeneous multimedia traffic. , 2013, , .		4
75	Sparse Channel Estimation for MIMO-OFDM Amplify-and-Forward Two-Way Relay Networks. , 2013, , .		4
76	Gibbs Sampling Aided Throughput Improvement for Next-Generation Wi-Fi. , 2018, , .		4
77	Biosensor-Assisted Method for Abdominal Syndrome Classification Using Machine Learning Algorithm. <i>Computational Intelligence and Neuroscience</i> , 2022, 2022, 1-14.	1.7	4
78	Performance analysis of a 802.11a OFDM system in the presence of UWB and multipath interference. , 2007, , .		3
79	Application of FVIKOR method for prioritization of wireless networks with multiple attributes. , 2012, , .		3
80	Application of fuzzy TOPSIS for weighting the system attributes in overlay networks. , 2012, , .		3
81	An adaptive multiuser scheduling and chunk allocation algorithm for uplink SIMO SC-FDMA. , 2014, , .		3
82	Distributed ON/OFF switching and dynamic channel allocation: Decreasing complexity and improving energy efficiency. <i>Transactions on Emerging Telecommunications Technologies</i> , 2017, 28, e3222.	3.9	3
83	A Distributed Satisfactory Sleep Mode Scheme for Self-Organizing Heterogeneous Networks. , 2018, , .		3
84	Human Recognition using Single-Input-Single-Output Channel Model and Support Vector Machines. <i>International Journal of Advanced Computer Science and Applications</i> , 2021, 12, .	0.7	3
85	Human-Machine Interaction Using Probabilistic Neural Network for Light Communication Systems. <i>Electronics (Switzerland)</i> , 2022, 11, 932.	3.1	3
86	A frequency domain multiple-antenna and channel estimation approach for facilitation of UWB technologies coexistence in heterogeneous WPANs. <i>Physical Communication</i> , 2013, 8, 38-46.	2.1	2
87	Energy-efficient radio resource management for next generation dense HetNet. , 2015, , .		2
88	Context Aware Medium Access Control for Buffer-Aided Multichannel Cognitive Networks. , 2015, , .		2
89	Joint machine-type device selection and power allocation for buffer-aided cognitive M2M communication. , 2015, , .		2
90	Distributed Load Balancing User Association and Self-Organizing Resource Allocation in HetNets. , 2016, , .		2

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91	Satisfaction Based Channel Allocation Scheme for Self-Organization in Heterogeneous Networks. , 2018, , .		2
92	Hybrid big bangâ€“big crunch with ant colony optimization for email spam detection. International Journal of Modern Physics C, 0, , .	1.7	2
93	Addressing the Real World Problem of Managing Wireless Communication Systems Using Explainable AI-Based Models through Correlation Analysis. Mathematical Problems in Engineering, 2022, 2022, 1-6.	1.1	2
94	BER analysis of DS-UWB system employing a laplace distribution model. IEICE Electronics Express, 2011, 8, 1089-1095.	0.8	1
95	Distributed Detection in UWB Sensor Networks under Non-Orthogonal Nakagami-m Fading. , 2011, , .		1
96	Game-theoretic approach for interference management in heterogeneous multimedia wireless personal area networks. IET Communications, 2012, 6, 2278-2286.	2.2	1
97	Interference-aware channel segregation for HetNet using time- and frequency-division channels. , 2015, , .		1
98	Decentralized Radio Resource Management for Dense Heterogeneous Wireless Networks. , 2017, , 92-106.		1
99	Sparsity Enhancement for Sparse Channel Estimation Using Non-orthogonal Basis. Wireless Personal Communications, 2017, 95, 1759-1779.	2.7	1
100	Efficient Resource Utilization for Heterogeneous Wireless Personal Area Networks. IEICE Transactions on Communications, 2013, E96.B, 1577-1587.	0.7	1
101	Human Motion Identity using Machine Learning on Spectral Analysis of RSS Signals. , 2020, , .		1
102	Pilot-assisted channel estimation for coexisting heterogeneous wireless personal area networks. , 2011, , .		0
103	A Tunable Multiuser Grouping and Chunk Allocation Algorithm for Controlling Fairness-Capacity Tradeoff in SC FDMA/SDMA Transmission. , 2014, , .		0
104	Interference-aware channel segregation based dynamic channel assignment in HetNet. IEICE Communications Express, 2016, 5, 260-265.	0.4	0
105	Gesture Recognition Using Machine Learning for Light Communication Systems. , 2022, , .		0