Abolfazl Mehbodniya

List of Publications by Year
in descending order

| 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	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
2	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
3	Proportional Fairness Based Energy Efficient Routing in Wireless Sensor Network. Computer Systems Science and Engineering, 2022, 41, 1071-1082.	2.4	22
4	Fetal health classification from cardiotocographic data using machine learning. Expert Systems, 2022, 39, e12899.	4.5	30
5	Biosensor-Assisted Method for Abdominal Syndrome Classification Using Machine Learning Algorithm. Computational Intelligence and Neuroscience, 2022, 2022, 1-14.	1.7	4
6	Improved Human Activity Recognition Using Majority Combining of Reduced-Complexity Sensor Branch Classifiers. Electronics (Switzerland), 2022, 11, 392.	3.1	8
7	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
8	Zika Virus Prediction Using AI-Driven Technology and Hybrid Optimization Algorithm in Healthcare. Journal of Healthcare Engineering, 2022, 2022, 1-13.	1.9	5
9	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
10	Data Mining in Employee Healthcare Detection Using Intelligence Techniques for Industry Development. Journal of Healthcare Engineering, 2022, 2022, 1-11.	1.9	7
11	Telemetry Data Compression Algorithm Using Balanced Recurrent Neural Network and Deep Learning. Computational Intelligence and Neuroscience, 2022, 2022, 1-10.	1.7	9
12	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
13	Human–Machine Interaction Using Probabilistic Neural Network for Light Communication Systems. Electronics (Switzerland), 2022, 11, 932.	3.1	3
14	Modified Lamport Merkle Digital Signature blockchain framework for authentication of internet of things healthcare data. Expert Systems, 2022, 39, .	4.5	19
15	Active and Reactive Power Management in the Smart Distribution Network Enriched with Wind Turbines and Photovoltaic Systems. Sustainability, 2022, 14, 4273.	3.2	11
16	Intelligent gravitational search random forest algorithm for fake news detection. International Journal of Modern Physics C, 2022, 33, .	1.7	9
17	Gesture Recognition Using Machine Learning for Light Communication Systems. , 2022, , .		0
18	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

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19	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
20	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
21	Distributed optimization of heterogeneous UAV cluster PID controller based on machine learning. Computers and Electrical Engineering, 2022, 101, 108059.	4.8	17
22	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
23	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
24	Financial Fraud Detection in Healthcare Using Machine Learning and Deep Learning Techniques. Security and Communication Networks, 2021, 2021, 1-8.	1.5	39
25	Human Recognition using Single-Input-Single-Output Channel Model and Support Vector Machines. International Journal of Advanced Computer Science and Applications, 2021, 12, .	0.7	3
26	Smartphone-Based mHealth and Internet of Things for Diabetes Control and Self-Management. Journal of Healthcare Engineering, 2021, 2021, 1-10.	1.9	10
27	Ensemble Machine Learning Model to Predict SARS-CoV-2 T-Cell Epitopes as Potential Vaccine Targets. Diagnostics, 2021, 11, 1990.	2.6	22
28	Patient Behavioral Analysis with Smart Healthcare and IoT. Behavioural Neurology, 2021, 2021, 1-9.	2.1	28
29	Dominant Feature Selection and Machine Learning-Based Hybrid Approach to Analyze Android Ransomware. Security and Communication Networks, 2021, 2021, 1-22.	1.5	25
30	WLAN Interference Identification Using a Convolutional Neural Network for Factory Environments. Journal of Communications, 2021, , 276-283.	1.6	7
31	Finger-Gesture Recognition for Visible Light Communication Systems Using Machine Learning. Applied Sciences (Switzerland), 2021, 11, 11582.	2.5	7
32	Blockchain and IPFS Integrated Framework in Bilevel Fog-Cloud Network for Security and Privacy of IoMT Devices. Computational and Mathematical Methods in Medicine, 2021, 2021, 1-9.	1.3	14
33	An Autonomous Home Energy Management System Using Dynamic Priority Strategy in Conventional Homes. Energies, 2020, 13, 3312.	3.1	8
34	Human Motion Patterns Recognition based on RSS and Support Vector Machines. , 2020, , .		8
35	Human Motion Identity using Machine Learning on Spectral Analysis of RSS Signals. , 2020, , .		1
36	Optimized WLAN Channel Allocation based on Gibbs Sampling with Busy Prediction using a Probabilistic Neural Network. , 2019, , .		6

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37	Study on channel prediction for automated guided vehicle using a probabilistic neural network. IEICE Communications Express, 2019, 8, 311-317.	0.4	7
38	Machine Learning-based RSSI Prediction in Factory Environments. , 2019, , .		7
39	Satisfaction Based Channel Allocation Scheme for Self-Organization in Heterogeneous Networks. , 2018, , .		2
40	A Distributed Satisfactory Sleep Mode Scheme for Self-Organizing Heterogeneous Networks. , 2018, , .		3
41	Gibbs Sampling Aided Throughput Improvement for Next-Generation Wi-Fi. , 2018, , .		4
42	Study on Fading Prediction for Automated Guided Vehicle Using Probabilistic Neural Network. , 2018, , .		10
43	A distributed learningâ€"based user association for heterogeneous networks. Transactions on Emerging Telecommunications Technologies, 2017, 28, e3192.	3.9	6
44	Distributed Learning for Energy-Efficient Resource Management in Self-Organizing Heterogeneous Networks. IEEE Transactions on Vehicular Technology, 2017, 66, 9287-9303.	6.3	22
45	Fuzzy-Based Game Theoretic Mobility Management for Energy Efficient Operation in HetNets. IEEE Access, 2017, 5, 7542-7552.	4.2	16
46	Online Ski Rental for ON/OFF Scheduling of Energy Harvesting Base Stations. IEEE Transactions on Wireless Communications, 2017, 16, 2976-2990.	9.2	28
47	Distributed ON/OFF switching and dynamic channel allocation: Decreasing complexity and improving energy efficiency. Transactions on Emerging Telecommunications Technologies, 2017, 28, e3222.	3.9	3
48	Decentralized Radio Resource Management for Dense Heterogeneous Wireless Networks. , 2017, , 92-106.		1
49	Fuzzy logic game-theoretic approach for energy efficient operation in HetNets. , 2017, , .		9
50	Sparsity Enhancement for Sparse Channel Estimation Using Non-orthogonal Basis. Wireless Personal Communications, 2017, 95, 1759-1779.	2.7	1
51	Minimizing Base Stationsâ€™ ON/OFF Switchings in Self-Organizing Heterogeneous Networks: A Distributed Satisfactory Framework. IEEE Access, 2017, 5, 26267-26278.	4.2	17
52	Study on idle slot availability prediction for WLAN using a probabilistic neural network. , 2017, , .		17
53	Online Channel Allocation for Full-Duplex Device-to-Device Communications. , 2016, , .		5
54	Distributed Load Balancing User Association and Self-Organizing Resource Allocation in HetNets. , 2016, , .		2

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55	Sojourn Time-Based Velocity Estimation in Small Cell Poisson Networks. IEEE Communications Letters, 2016, 20, 340-343.	4.1	24
56	Interference-aware channel segregation based dynamic channel assignment in HetNet. IEICE Communications Express, 2016, 5, 260-265.	0.4	0
57	Online ski rental for scheduling self-powered, energy harvesting small base stations. , 2016, , .		15
58	Learning-based joint power and channel assignment for hyper dense 5G networks. , 2016, , .		10
59	A Handoff Algorithm Based on Estimated Load for Dense Green 5G Networks. , 2015, , .		12
60	Sparse LMS/F algorithms with application to adaptive system identification. Wireless Communications and Mobile Computing, 2015, 15, 1649-1658.	1.2	20
61	Two Novel Handover Algorithms with Load Balancing for Heterogeneous Network. , 2015, , .		6
62	Energy-efficient radio resource management for next generation dense HetNet. , 2015, , .		2
63	Context Aware Medium Access Control for Buffer-Aided Multichannel Cognitive Networks. , 2015, , .		2
64	Joint machine-type device selection and power allocation for buffer-aided cognitive M2M communication. , 2015, , .		2
65	Interference-aware channel segregation for HetNet using time- and frequency-division channels. , 2015, , .		1
66	Decentralized Energy Allocation for Wireless Networks With Renewable Energy Powered Base Stations. IEEE Transactions on Communications, 2015, 63, 2126-2142.	7.8	41
67	Energy-efficient dynamic spectrum access in wireless heterogeneous networks. , 2015, , .		5
68	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
69	A Handoff Algorithm Based on Estimated Load for Dense Green 5G Networks. , 2014, , .		6
70	A Tunable Multiuser Grouping and Chunk Allocation Algorithm for Controlling Fairness-Capacity Tradeoff in SC FDMA/SDMA Transmission. , 2014, , .		0
71	Two Are Better Than One: Adaptive Sparse System Identification Using Affine Combination of Two Sparse Adaptive Filters. , 2014, , .		7
72	An adaptive multiuser scheduling and chunk allocation algorithm for uplink SIMO SC-FDMA. , 2014, , .		3

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73	A novel wireless network access selection scheme for heterogeneous multimedia traffic. , 2013, , .		4
74	Adaptive Sparse Channel Estimation for Time-Variant MIMO Communication Systems. , 2013, , .		6
75	Adaptive sparse channel estimation using re-weighted zero-attracting normalized least mean fourth. , 2013, , .		7
76	Dynamic target wireless network selection technique using fuzzy linguistic variables. China Communications, 2013, 10, 1-16.	3.2	16
77	Bayesian Sparse Channel Estimation and Data Detection for OFDM Communication Systems. , 2013, , .		7
78	Variable is good: Adaptive sparse channel estimation using VSS-ZA-NLMS algorithm. , 2013, , .		9
79	Sparse Channel Estimation for MIMO-OFDM Amplify-and-Forward Two-Way Relay Networks. , 2013, , .		4
80	A fuzzy extension of VIKOR for target network selection in heterogeneous wireless environments. Physical Communication, 2013, 7, 145-155.	2.1	28
81	A frequency domain multiple-antenna and channel estimation approach for facilitation of UWB technologies coexistence in heterogeneous WPANs. Physical Communication, 2013, 8, 38-46.	2.1	2
82	Wireless network access selection scheme for heterogeneous multimedia traffic. IET Networks, 2013, 2, 214-223.	1.8	9
83	Least mean square/fourth algorithm for adaptive sparse channel estimation. , 2013, , .		19
84	A Fuzzy Preprocessing Module for Optimizing the Access Network Selection in Wireless Networks. Advances in Fuzzy Systems, 2013, 2013, 1-9.	0.9	15
85	Efficient Resource Utilization for Heterogeneous Wireless Personal Area Networks. IEICE Transactions on Communications, 2013, E96.B, 1577-1587.	0.7	1
86	Application of FVIKOR method for prioritization of wireless networks with multiple attributes. , 2012, , .		3
87	Application of fuzzy TOPSIS for weighting the system attributes in overlay networks. , 2012, , .		3
88	A dynamic weighting of attributes in heterogeneous wireless networks using fuzzy linguistic variables. , 2012, , .		5
89	Compressed Channel Estimation for Sparse Multipath Non-Orthogonal Amplify-and-Forward Cooperative Networks. , 2012, , .		4
90	A fuzzy MADM ranking approach for vertical mobility in next generation hybrid networks. , 2012, , .		14

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91	Game-theoretic approach for interference management in heterogeneous multimedia wireless personal area networks. IET Communications, 2012, 6, 2278-2286.	2.2	1
92	Performance of DS–UWB in MB–OFDM and multi–user interference over Nakagami–m fading channels. Wireless Communications and Mobile Computing, 2012, 12, 1538-1545.	1.2	4
93	Pilot-assisted channel estimation for coexisting heterogeneous wireless personal area networks. , 2011, , .		0
94	COMPRESSIVE ESTIMATION OF CLUSTER-SPARSE CHANNELS. Progress in Electromagnetics Research C, 2011, 24, 251-263.	0.9	7
95	BER analysis of DS-UWB system employing a laplace distribution model. IEICE Electronics Express, 2011, 8, 1089-1095.	0.8	1
96	Sparse signal recovery with OMP algorithm using sensing measurement matrix. IEICE Electronics Express, 2011, 8, 285-290.	0.8	30
97	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
98	Distributed Detection in UWB Sensor Networks under Non-Orthogonal Nakagami-m Fading. , 2011, , .		1
99	A Location-Aware Vertical Handoff Algorithm for Hybrid Networks. Journal of Communications, 2010, 5, .	1.6	8
100	Effects of MB-OFDM System Interference on the Performance of DS-UWB. IEEE Transactions on Vehicular Technology, 2009, 58, 4665-4669.	6.3	12
101	Ultra wideband technologies coexistence in Nakagami-m fading channels. IET Communications, 2009, 3, 1081.	2.2	13
102	Coexistence Between DS-UWB and MB-OFDM: Analysis and Interference Mitigation. , 2007, , .		12
103	Performance analysis of a 802.11a OFDM system in the presence of UWB and multipath interference. , 2007, , .		3
104	Performance Analysis of MB-OFDM in the Presence of Multiple UWB Interferers. , 2007, , .		5
105	Hybrid big bang–big crunch with ant colony optimization for email spam detection. International Journal of Modern Physics C, 0, , .	1.7	2