Fatemeh Afghah

List of Publications by Year
in descending order

64 papers	1,958 citations

430874

18
h-index

330143

37
g-index

65 all docs	65 docs citations

65
times ranked

1566
citing authors

#	Article	IF	Citations
1	SleepEEGNet: Automated sleep stage scoring with sequence to sequence deep learning approach. PLoS ONE, 2019, 14, e0216456.	2.5	265
2	Survey of Inter-Satellite Communication for Small Satellite Systems: Physical Layer to Network Layer View. IEEE Communications Surveys and Tutorials, 2016, 18, 2442-2473.	39.4	212
3	A survey on physical unclonable function (PUF)-based security solutions for Internet of Things. Computer Networks, 2020, 183, 107593.	5.1	127
4	Aerial imagery pile burn detection using deep learning: The FLAME dataset. Computer Networks, 2021, 193, 108001.	5.1	124
5	Green internet of things using UAVs in B5G networks: A review of applications and strategies. Ad Hoc Networks, 2021, 117, 102505.	5.5	114
6	Inter- and Intra- Patient ECG Heartbeat Classification for Arrhythmia Detection: A Sequence to Sequence Deep Learning Approach. , 2019, 2019, 1308-1312.		85
7	A review of AI-enabled routing protocols for UAV networks: Trends, challenges, and future outlook. Ad Hoc Networks, 2022, 130, 102790.	5.5	79
8	An Energy Efficient Framework for UAV-Assisted Millimeter Wave 5G Heterogeneous Cellular Networks. IEEE Transactions on Green Communications and Networking, 2019, 3, 37-44.	5.5	72
9	HAN-ECG: An interpretable atrial fibrillation detection model using hierarchical attention networks. Computers in Biology and Medicine, 2020, 127, 104057.	7.0	66
10	Drones' Edge Intelligence Over Smart Environments in B5G: Blockchain and Federated Learning Synergy. IEEE Transactions on Green Communications and Networking, 2022, 6, 295-312.	5.5	58
11	Wildfire Monitoring in Remote Areas using Autonomous Unmanned Aerial Vehicles. , 2019, , .		53
12	Use of a quantum genetic algorithm for coalition formation in large-scale UAV networks. Ad Hoc Networks, 2019, 87, 26-36.	5.5	46
13	Intersatellite Communication System Based on Visible Light. IEEE Transactions on Aerospace and Electronic Systems, 2018, 54, 2888-2899.	4.7	34
14	An Autonomous Spectrum Management Scheme for Unmanned Aerial Vehicle Networks in Disaster Relief Operations. IEEE Access, 2020, 8, 58064-58079.	4.2	34
15	A unified framework for joint mobility prediction and object profiling of drones in UAV networks. Journal of Communications and Networks, 2018, 20, 434-442.	2.6	32
16	ECGNET: Learning Where to Attend for Detection of Atrial Fibrillation with Deep Visual Attention. , 2019, 2019, .		31
17	Single-modal and multi-modal false arrhythmia alarm reduction using attention-based convolutional and recurrent neural networks. PLoS ONE, 2020, 15, e0226990.	2.5	29
18	Clouds Proportionate Medical Data Stream Analytics for Internet of Things-Based Healthcare Systems. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 973-982.	6.3	29

#	Article	IF	Citations
19	A reputation-based Stackelberg game approach for spectrum sharing with cognitive cooperation. , 2013, , .		27
20	Fully-Echoed Q-Routing With Simulated Annealing Inference for Flying Adhoc Networks. IEEE Transactions on Network Science and Engineering, 2021, 8, 2223-2234.	6.4	25
21	Enabling Full-Duplex and Energy Harvesting in Uplink and Downlink of Small-Cell Network Relying on Power Domain Based Multiple Access. IEEE Access, 2020, 8, 142772-142784.	4.2	24
22	Spectrum sharing in cooperative cognitive radio networks: A matching game framework. , 2015, , .		23
23	ECG Language processing (ELP): A new technique to analyze ECG signals. Computer Methods and Programs in Biomedicine, 2021, 202, 105959.	4.7	23
24	A Proof of Concept SRAM-based Physically Unclonable Function (PUF) Key Generation Mechanism for IoT Devices. , 2019, , .		20
25	Fire Frontline Monitoring by Enabling UAV-Based Virtual Reality with Adaptive Imaging Rate. , 2019, , .		18
26	Software Defined Radio implementation of DS-CDMA in inter-satellite communications for small satellites. , 2015, , .		17
27	A Feature Selection Method Based on Shapley Value to False Alarm Reduction in ICUs A Genetic-Algorithm Approach. , 2018, 2018, 319-323.		17
28	A Secret Key Generation Scheme for Internet of Things using Ternary-States ReRAM-based Physical Unclonable Functions. , 2018, , .		17
29	A Solution for Dynamic Spectrum Management in Mission-Critical UAV Networks. , 2019, , .		17
30	Power Optimized DSTBC Assisted DMF Relaying in Wireless Sensor Networks with Redundant Super Nodes. IEEE Transactions on Wireless Communications, 2013, 12, 636-645.	9.2	13
31	Wildfire Spread Modeling with Aerial Image Processing. , 2020, , .		13
32	Stochastic game theoretical model for packet forwarding in relay networks. Telecommunication Systems, 2013, 52, 1877-1893.	2.5	12
33	Network-Based Enriched Gene Subnetwork Identification: A Game-Theoretic Approach. Biomedical Engineering and Computational Biology, 2016, 7s2, BECB.S38244.	2.0	12
34	On Greedy Routing in Dynamic UAV Networks. , 2018, , .		12
35	UASTrustChain: A Decentralized Blockchain- Based Trust Monitoring Framework for Autonomous Unmanned Aerial Systems. IEEE Access, 2020, 8, 226074-226088.	4.2	12
36	Cooperative Spectrum Leasing in Cognitive Radio Networks. , 2014, , .		11

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37	Ag conductive bridge RAMs for physical unclonable functions. , 2017, , .		11
38	A ReRAM Physically Unclonable Function (ReRAM PUF)-Based Approach to Enhance Authentication Security in Software Defined Wireless Networks. International Journal of Wireless Information Networks, 2018, 25, 117-129.	2.7	11
39	UAV-Assisted Communication in Remote Disaster Areas Using Imitation Learning. IEEE Open Journal of the Communications Society, 2021, 2, 738-753.	6.9	11
40	Utility of Light Emitting Diodes for inter-satellite communication in multi-satellite networks. , 2016, , .		10
41	Channel-Adaptive Packetization Policy for Minimal Latency and Maximal Energy Efficiency. IEEE Transactions on Wireless Communications, 2016, 15, 2407-2420.	9.2	10
42	A hierarchical Stackelberg-coalition formation game theoretic framework for cooperative spectrum leasing. , 2017, , .		10
43	Context-aware D2D peer selection for load distribution in LTE networks. , 2015, , .		8
44	Binary Source Estimation Using a Two-Tiered Wireless Sensor Network. IEEE Communications Letters, 2011, 15, 449-451.	4.1	7
45	Blood loss severity prediction using game theoretic based feature selection. , 2014, , .		7
46	MIMO-OFDM non-regenerative relay channel estimation using compressed sensing. , 2015, , .		7
47	Game Theoretic Study of Cooperative Spectrum Leasing in Cognitive Radio Networks. International Journal of Handheld Computing Research, 2014, 5, 61-74.	0.4	7
48	A Hierarchical Spectrum Access Scheme for TV White Space Coexistence in Heterogeneous Networks. IEEE Access, 2018, 6, 78992-79004.	4.2	6
49	Exploiting Secrecy Performance of Uplink NOMA in Cellular Networks. IEEE Access, 2021, 9, 95135-95154.	4.2	6
50	LB-OPAR: Load balanced optimized predictive and adaptive routing for cooperative UAV networks. Ad Hoc Networks, 2022, 132, 102878.	5.5	6
51	A greedy graph search algorithm based on changepoint analysis for automatic QRS complex detection. Computers in Biology and Medicine, 2021, 130, 104208.	7.0	4
52	Intelligent Reflecting Surface Aided Wireless Systems with Imperfect Hardware. Electronics (Switzerland), 2022, 11, 900.	3.1	4
53	Traffic scheduling, network slicing and virtualization based on deep reinforcement learning. Computers and Electrical Engineering, 2022, 100, 107987.	4.8	4
54	Throughput optimization in relay networks using Markovian game theory. , 2011, , .		3

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55	An Unsupervised Feature Learning Approach to Reduce False Alarm Rate in ICUs. , 2019, 2019, 349-353.		3
56	An Uncertainty Estimation Framework for Risk Assessment in Deep Learning-based AFib Classification. , 2020, , .		3
57	Distributed fair-efficient power allocation in two-hop relay networks. , 2013, , .		2
58	Optimal Relaying Beamforming in Multiple Access Broadcast Channel (MABC) Bidirectional Cognitive Radio Networks in Presence of Interferers. International Journal of Wireless Information Networks, 2018, 25, 383-398.	2.7	2
59	Sequential Association Rule Mining for Autonomously Extracting Hierarchical Task Structures in Reinforcement Learning. IEEE Access, 2020, 8, 11782-11799.	4.2	2
60	Reliable, Secure, and Efficient Hardware Implementation of Password Manager System Using SRAM PUF. IEEE Access, 2021, 9, 155711-155725.	4.2	2
61	Helper Data Masking for Physically Unclonable Function-Based Key Generation Algorithms. IEEE Access, 2022, 10, 40150-40164.	4.2	2
62	Heterogeneous Airborne mmWave Cells: Optimal Placement for Power-Efficient Maximum Coverage. , 2022, , .		2
63	Wireless cooperative relaying using game theory. , 2010, , .		1
64	Inverse Feature Learning: Feature Learning Based on Representation Learning of Error. IEEE Access, 2020, 8, 132937-132949.	4.2	0