

Ala Al-Fuqaha

List of Publications by Citations

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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.

121
papers

7,591
citations

22
h-index

86
g-index

156
ext. papers

10,007
ext. citations

6.9
avg, IF

6.75
L-index

#	Paper	IF	Citations
121	. <i>IEEE Communications Surveys and Tutorials</i> , 2015 , 17, 2347-2376	37.1	3882
120	Unmanned Aerial Vehicles (UAVs): A Survey on Civil Applications and Key Research Challenges. <i>IEEE Access</i> , 2019 , 7, 48572-48634	3.5	603
119	Deep Learning for IoT Big Data and Streaming Analytics: A Survey. <i>IEEE Communications Surveys and Tutorials</i> , 2018 , 20, 2923-2960	37.1	574
118	Blockchain for AI: Review and Open Research Challenges. <i>IEEE Access</i> , 2019 , 7, 10127-10149	3.5	333
117	Smart Cities: A Survey on Data Management, Security, and Enabling Technologies. <i>IEEE Communications Surveys and Tutorials</i> , 2017 , 19, 2456-2501	37.1	264
116	. <i>IEEE Internet of Things Journal</i> , 2018 , 5, 624-635	10.7	193
115	Enabling Cognitive Smart Cities Using Big Data and Machine Learning: Approaches and Challenges 2018 , 56, 94-101		163
114	Software-Defined Networking for RSU Clouds in Support of the Internet of Vehicles. <i>IEEE Internet of Things Journal</i> , 2015 , 2, 133-144	10.7	154
113	Toward better horizontal integration among IoT services 2015 , 53, 72-79		112
112	Unsupervised Machine Learning for Networking: Techniques, Applications and Research Challenges. <i>IEEE Access</i> , 2019 , 7, 65579-65615	3.5	89
111	Softwarization of Internet of Things Infrastructure for Secure and Smart Healthcare. <i>Computer</i> , 2017 , 50, 74-79	1.6	66
110	. <i>IEEE Access</i> , 2019 , 7, 90316-90356	3.5	65
109	Secure and Robust Machine Learning for Healthcare: A Survey. <i>IEEE Reviews in Biomedical Engineering</i> , 2021 , 14, 156-180	6.4	64
108	A survey on particle swarm optimization with emphasis on engineering and network applications. <i>Evolutionary Intelligence</i> , 2019 , 12, 113-129	1.7	60
107	Reinforcement learning for resource provisioning in the vehicular cloud. <i>IEEE Wireless Communications</i> , 2016 , 23, 128-135	13.4	54
106	. <i>IEEE Communications Surveys and Tutorials</i> , 2020 , 22, 998-1026	37.1	53
105	Parameters optimization of deep learning models using Particle swarm optimization 2017 ,		46

104	Systematization of Knowledge (SoK): A Systematic Review of Software-Based Web Phishing Detection. <i>IEEE Communications Surveys and Tutorials</i> , 2017 , 19, 2797-2819	37.1	37
103	Generative Adversarial Networks For Launching and Thwarting Adversarial Attacks on Network Intrusion Detection Systems 2019 ,		34
102	. <i>IEEE Journal on Selected Areas in Communications</i> , 2008 , 26, 156-167	14.2	32
101	Intelligent building control systems for thermal comfort and energy-efficiency: A systematic review of artificial intelligence-assisted techniques. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 144, 110969	16.2	26
100	RSU cloud and its resource management in support of enhanced vehicular applications 2014 ,		23
99	SDN Flow Entry Management Using Reinforcement Learning. <i>ACM Transactions on Autonomous and Adaptive Systems</i> , 2018 , 13, 1-23	1.2	22
98	Optimizing an artificial immune system algorithm in support of flow-Based internet traffic classification. <i>Applied Soft Computing Journal</i> , 2017 , 54, 1-22	7.5	18
97	Intelligent Fusion of Deep Features for Improved Waste Classification. <i>IEEE Access</i> , 2020 , 8, 96495-96504	3.5	18
96	A Student Primer on How to Thrive in Engineering Education during and beyond COVID-19. <i>Education Sciences</i> , 2020 , 10, 236	2.2	18
95	Online Auction of Cloud Resources in Support of the Internet of Things. <i>IEEE Internet of Things Journal</i> , 2017 , 4, 1583-1596	10.7	17
94	2017 ,		17
93	2010 ,		17
92	. <i>IEEE Intelligent Transportation Systems Magazine</i> , 2018 , 10, 110-120	2.6	16
91	Topology Control Schema for Better QoS in Hybrid RF/FSO Mesh Networks. <i>IEEE Transactions on Communications</i> , 2012 , 60, 1398-1406	6.9	16
90	A Precise Indoor Localization Approach based on Particle Filter and Dynamic Exclusion Techniques. <i>Network Protocols and Algorithms</i> , 2013 , 5, 50	0.3	16
89	On Efficient Network Planning and Routing in Large-Scale MANETs. <i>IEEE Transactions on Vehicular Technology</i> , 2009 , 58, 3796-3801	6.8	15
88	2013 ,		14
87	2013 ,		14

86	2020,			13
85	Robust Insider Attacks Countermeasure for Hadoop: Design and Implementation. <i>IEEE Systems Journal</i> , 2018 , 12, 1874-1885	4.3		12
84	. <i>IEEE Internet of Things Journal</i> , 2021 , 8, 2943-2958	10.7		12
83	Evolutionary Game Theory Perspective on Dynamic Spectrum Access Etiquette. <i>IEEE Access</i> , 2018 , 6, 13142-13157	3.5		11
82	Geo-encryption protocol for mobile networks. <i>Computer Communications</i> , 2007 , 30, 2510-2517	5.1		11
81	. <i>IEEE Access</i> , 2020 , 8, 208518-208531	3.5		11
80	Adversarial Attacks on Cognitive Self-Organizing Networks: The Challenge and the Way Forward 2018,			11
79	Using hierarchical statistical analysis and deep neural networks to detect covert timing channels. <i>Applied Soft Computing Journal</i> , 2019 , 82, 105546	7.5		10
78	Distributed topology control in large-scale hybrid RF/FSO networks: SIMT GPU-based particle swarm optimization approach. <i>International Journal of Communication Systems</i> , 2013 , 26, 888-911	1.7		10
77	Detection of Masquerade Attacks on Wireless Sensor Networks 2007,			10
76	A Fuzzy-Based Hierarchical Energy Efficient Routing Protocol for Large Scale Mobile Ad Hoc Networks (FEER) 2006,			10
75	Routing framework for all-optical DWDM metro and long-haul transport networks with sparse wavelength conversion capabilities. <i>IEEE Journal on Selected Areas in Communications</i> , 2004 , 22, 1443-1459	14.2		10
74	. <i>IEEE Transactions on Mobile Computing</i> , 2015 , 14, 1876-1887	4.6		9
73	Securing Machine Learning in the Cloud: A Systematic Review of Cloud Machine Learning Security. <i>Frontiers in Big Data</i> , 2020 , 3, 587139	2.8		9
72	Design of a Social Collaboration and Precise Localization Services for the Blind and Visually Impaired. <i>Procedia Computer Science</i> , 2013 , 21, 282-291	1.6		9
71	Budgeted Online Selection of Candidate IoT Clients to Participate in Federated Learning. <i>IEEE Internet of Things Journal</i> , 2021 , 8, 5938-5952	10.7		9
70	Black-box Adversarial Machine Learning Attack on Network Traffic Classification 2019,			8
69	. <i>IEEE Transactions on Vehicular Technology</i> , 2014 , 63, 2901-2915	6.8		8

68	2012,		8
67	An intelligent data fusion technique based on the particle filter to perform precise outdoor localization. <i>International Journal of Pervasive Computing and Communications</i> , 2013 , 9, 163-183	3.3	8
66	A genetic approach for trajectory planning in non-autonomous Mobile Ad-Hoc Networks with QoS requirements 2010 ,		8
65	A new generic model for signal propagation in Wi-Fi and WiMAX environments 2008 ,		8
64	Traffic grooming, routing, and wavelength assignment in WDM transport networks with sparse grooming resources. <i>Computer Communications</i> , 2007 , 30, 3508-3524	5.1	8
63	Genetic Approach for Traffic Grooming, Routing, and Wavelength Assignment in WDM Optical Networks with Sparse Grooming Resources 2006 ,		8
62	The Duo of Artificial Intelligence and Big Data for Industry 4.0: Applications, Techniques, Challenges, and Future Research Directions. <i>IEEE Internet of Things Journal</i> , 2021 , 1-1	10.7	8
61	Developing future human-centered smart cities: Critical analysis of smart city security, Data management, and Ethical challenges. <i>Computer Science Review</i> , 2022 , 43, 100452	8.3	8
60	Empowering networking research and experimentation through Software-Defined Networking. <i>Journal of Network and Computer Applications</i> , 2016 , 70, 140-155	7.9	8
59	Path Planning in Support of Smart Mobility Applications Using Generative Adversarial Networks 2018 ,		8
58	From Channel Selection to Strategy Selection: Enhancing VANETs Using Socially-Inspired Foraging and Deference Strategies. <i>IEEE Transactions on Vehicular Technology</i> , 2018 , 67, 8919-8933	6.8	7
57	A New Hierarchical and Adaptive Protocol for Minimum-Delay V2V Communication 2009 ,		7
56	Particle Swarm Optimized Federated Learning For Industrial IoT and Smart City Services 2020 ,		7
55	The role of hierarchical entropy analysis in the detection and time-scale determination of covert timing channels 2015 ,		6
54	Secure Plug-in Electric Vehicle (PEV) Charging in a Smart Grid Network. <i>Energies</i> , 2017 , 10, 1024	3.1	6
53	Sentiment Analysis from Images of Natural Disasters. <i>Lecture Notes in Computer Science</i> , 2019 , 104-113	0.9	6
52	The Adversarial Machine Learning Conundrum: Can the Insecurity of ML Become the AchillesSHeel of Cognitive Networks?. <i>IEEE Network</i> , 2020 , 34, 196-203	11.4	6
51	. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2020 , 50, 4183-4196	7.3	5

50	A service location problem with QoS constraints 2007 ,		5
49	AI-Based Radio Resource Allocation in Support of the Massive Heterogeneity of 6G Networks 2021 ,		5
48	A Survey on Spectrum Management for Unmanned Aerial Vehicles (UAVs). <i>IEEE Access</i> , 2021 , 1-1	3.5	5
47	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
46	Challenges and Countermeasures for Adversarial Attacks on Deep Reinforcement Learning. <i>IEEE Transactions on Artificial Intelligence</i> , 2021 , 1-1	4.7	5
45	Using MapReduce and hierarchical entropy analysis to speed-up the detection of covert timing channels 2017 ,		4
44	Efficient failure prediction in autonomic networks based on trend and frequency analysis of anomalous patterns. <i>International Journal of Network Management</i> , 2013 , 23, 186-213	1.8	4
43	Client-side architecture for mobile service QoS monitoring using Generalized Extreme Value theorem 2011 ,		4
42	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2019 , 20, 285-296	6.1	4
41	Using phase shift fingerprints and inertial measurements in support of precise localization in urban areas. <i>Personal and Ubiquitous Computing</i> , 2019 , 23, 861-872	2.1	3
40	Managing a cluster of IoT brokers in support of smart city applications 2017 ,		3
39	Prediction of performance degradation in telecommunication networks using Joint Clustering and association analysis techniques 2010 ,		3
38	Failure Prediction Based on Multi-Scale Frequent Anomalous Behavior Identification in Support of Autonomic Networks 2010 ,		3
37	Two novel learning algorithms to solve the spectrum sharing problem in cognitive radio networks 2012 ,		3
36	2009 ,		3
35	Optimal hierarchical energy efficient design for MANETs 2006 ,		3
34	A new queuing strategy for large scale ATM switches 2001 , 39, 142-146		3
33	Engineering Education, Moving into 2020s: Essential Competencies for Effective 21st Century Electrical and Computer Engineers		3

32	Threshold-Based Data Exclusion Approach for Energy-Efficient Federated Edge Learning 2021,		3
31	Optimization of power and migration cost in virtualized data centers 2016,		3
30	Adversarial Machine Learning Attack on Modulation Classification 2019,		3
29	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
28	Opportunistic Selection of Vehicular Data Brokers as Relay Nodes to the Cloud 2020,		2
27	Towards a client-side QoS monitoring and assessment using Generalized Pareto Distribution in a cloud-based environment 2013,		2
26	Artificial Immune System Inspired Algorithm for Flow-Based Internet Traffic Classification 2014,		2
25	An efficient artificial landmark-based system for indoor and outdoor identification and localization 2011,		2
24	Using Lagrangean Relaxation for Service Location Planning with QoS Constraints in Large-Scale Networks 2008,		2
23	A Model for Cooperative Mobility and Budgeted QoS in MANETs with Heterogenous Autonomy Requirements 2008,		2
22	NIS02-5: Constructing an Efficient Mobility Profile of Ad-Hoc Node for Mobility-Pattern-Based Anomaly Detection in MANET. <i>IEEE Global Telecommunications Conference (GLOBECOM)</i> , 2006,		2
21	New multiprotocol WDM/CDMA-based optical switch architecture		2
20	Analysis of Asymmetric Dual-Hop Energy Harvesting-Based Wireless Communication Systems in Mixed Fading Environments. <i>IEEE Transactions on Green Communications and Networking</i> , 2021 , 5, 261-277	4	2
19	A Survey on the Use of Preferences for Virtual Machine Placement in Cloud Data Centers. <i>ACM Computing Surveys</i> , 2021 , 54, 1-39	13.4	2
18	Active learning for event detection in support of disaster analysis applications. <i>Signal, Image and Video Processing</i> , 2021 , 15, 1081-1088	1.6	2
17	Biomedical IoT: Enabling Technologies, Architectural Elements, Challenges, and Future Directions.. <i>IEEE Access</i> , 2022 , 10, 31306-31339	3.5	2
16	2017,		1
15	Context severity based opportunistic service reprioritization for IEEE 802.11p VANETs 2013,		1

14	Reconstruction of malicious internet flows 2010 ,		1
13	2011 ,		1
12	A client-based QoS approach using generalized extreme value theorem in multi-hop network environments 2012 ,		1
11	2012 ,		1
10	Social deference and hunger as mechanisms for starvation avoidance in cognitive radio societies 2016 ,		1
9	From Blindness to Foraging to Sensing to Sociality: an Evolutionary Perspective on Cognitive Radio Networks. <i>Mobile Networks and Applications</i> , 2020 , 25, 1902-1914	2.9	1
8	Severity-Based Prioritized Processing of Packets with Application in VANETs. <i>IEEE Transactions on Mobile Computing</i> , 2020 , 19, 484-496	4.6	1
7	Exploiting the Spatio-Temporal Patterns in IoT Data to Establish a Dynamic Ensemble of Distributed Learners. <i>IEEE Access</i> , 2018 , 6, 63316-63328	3.5	1
6	2018 ,		1
5	Visual Sentiment Analysis from Disaster Images in Social Media. <i>Sensors</i> , 2022 , 22, 3628	3.8	1
4	Network Layer Protocols 2011 , 40-62		
3	Lagrangean relaxation for service location in large-scale networks with QoS constraints. <i>Wireless Communications and Mobile Computing</i> , 2009 , 9, 1668-1682	1.9	
2	Design and Simulation of a New Queuing Architecture for Large-Scale ATM Switches. <i>Simulation</i> , 2002 , 78, 431-446	1.2	
1	Surrendering Autonomy: Can Cooperative Mobility Help?. <i>Lecture Notes in Computer Science</i> , 2007 , 901-910		