

# Ala Al-Fuqaha

## List of Publications by Year in Descending Order

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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	Developing future human-centered smart cities: Critical analysis of smart city security, Data management, and Ethical challenges. <i>Computer Science Review</i> , <b>2022</b> , 43, 100452	8.3	8
120	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> , <b>2022</b> , 3, 322-365	6.7	3
119	Biomedical IoT: Enabling Technologies, Architectural Elements, Challenges, and Future Directions.. <i>IEEE Access</i> , <b>2022</b> , 10, 31306-31339	3.5	2
118	Visual Sentiment Analysis from Disaster Images in Social Media. <i>Sensors</i> , <b>2022</b> , 22, 3628	3.8	1
117	AI-Based Radio Resource Allocation in Support of the Massive Heterogeneity of 6G Networks <b>2021</b> ,		5
116	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> , <b>2021</b> , 1-1	10.7	8
115	A Survey on Spectrum Management for Unmanned Aerial Vehicles (UAVs). <i>IEEE Access</i> , <b>2021</b> , 1-1	3.5	5
114	Analysis of Asymmetric Dual-Hop Energy Harvesting-Based Wireless Communication Systems in Mixed Fading Environments. <i>IEEE Transactions on Green Communications and Networking</i> , <b>2021</b> , 5, 261-277	4.7	2
113	Budgeted Online Selection of Candidate IoT Clients to Participate in Federated Learning. <i>IEEE Internet of Things Journal</i> , <b>2021</b> , 8, 5938-5952	10.7	9
112	A Survey on the Use of Preferences for Virtual Machine Placement in Cloud Data Centers. <i>ACM Computing Surveys</i> , <b>2021</b> , 54, 1-39	13.4	2
111	Threshold-Based Data Exclusion Approach for Energy-Efficient Federated Edge Learning <b>2021</b> ,		3
110	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> , <b>2021</b> , 144, 110969	16.2	26
109	Secure and Robust Machine Learning for Healthcare: A Survey. <i>IEEE Reviews in Biomedical Engineering</i> , <b>2021</b> , 14, 156-180	6.4	64
108	. <i>IEEE Internet of Things Journal</i> , <b>2021</b> , 8, 2943-2958	10.7	12
107	Fine-Grained Data Selection for Improved Energy Efficiency of Federated Edge Learning. <i>IEEE Transactions on Network Science and Engineering</i> , <b>2021</b> , 1-1	4.9	5
106	Active learning for event detection in support of disaster analysis applications. <i>Signal, Image and Video Processing</i> , <b>2021</b> , 15, 1081-1088	1.6	2
105	Challenges and Countermeasures for Adversarial Attacks on Deep Reinforcement Learning. <i>IEEE Transactions on Artificial Intelligence</i> , <b>2021</b> , 1-1	4.7	5

104	Securing Machine Learning in the Cloud: A Systematic Review of Cloud Machine Learning Security. <i>Frontiers in Big Data</i> , <b>2020</b> , 3, 587139	2.8	9
103	Opportunistic Selection of Vehicular Data Brokers as Relay Nodes to the Cloud <b>2020</b> ,		2
102	Intelligent Fusion of Deep Features for Improved Waste Classification. <i>IEEE Access</i> , <b>2020</b> , 8, 96495-96504	3.5	18
101	. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2020</b> , 50, 4183-4196	7.3	5
100	. <i>IEEE Communications Surveys and Tutorials</i> , <b>2020</b> , 22, 998-1026	37.1	53
99	Particle Swarm Optimized Federated Learning For Industrial IoT and Smart City Services <b>2020</b> ,		7
98	The Adversarial Machine Learning Conundrum: Can the Insecurity of ML Become the AchillesSHeel of Cognitive Networks?. <i>IEEE Network</i> , <b>2020</b> , 34, 196-203	11.4	6
97	<b>2020</b> ,		13
96	A Student Primer on How to Thrive in Engineering Education during and beyond COVID-19. <i>Education Sciences</i> , <b>2020</b> , 10, 236	2.2	18
95	. <i>IEEE Access</i> , <b>2020</b> , 8, 208518-208531	3.5	11
94	From Blindness to Foraging to Sensing to Sociality: an Evolutionary Perspective on Cognitive Radio Networks. <i>Mobile Networks and Applications</i> , <b>2020</b> , 25, 1902-1914	2.9	1
93	Severity-Based Prioritized Processing of Packets with Application in VANETs. <i>IEEE Transactions on Mobile Computing</i> , <b>2020</b> , 19, 484-496	4.6	1
92	Using hierarchical statistical analysis and deep neural networks to detect covert timing channels. <i>Applied Soft Computing Journal</i> , <b>2019</b> , 82, 105546	7.5	10
91	Unsupervised Machine Learning for Networking: Techniques, Applications and Research Challenges. <i>IEEE Access</i> , <b>2019</b> , 7, 65579-65615	3.5	89
90	Using phase shift fingerprints and inertial measurements in support of precise localization in urban areas. <i>Personal and Ubiquitous Computing</i> , <b>2019</b> , 23, 861-872	2.1	3
89	Unmanned Aerial Vehicles (UAVs): A Survey on Civil Applications and Key Research Challenges. <i>IEEE Access</i> , <b>2019</b> , 7, 48572-48634	3.5	603
88	A survey on particle swarm optimization with emphasis on engineering and network applications. <i>Evolutionary Intelligence</i> , <b>2019</b> , 12, 113-129	1.7	60
87	Black-box Adversarial Machine Learning Attack on Network Traffic Classification <b>2019</b> ,		8

86	Generative Adversarial Networks For Launching and Thwarting Adversarial Attacks on Network Intrusion Detection Systems <b>2019</b> ,		34
85	. <i>IEEE Access</i> , <b>2019</b> , 7, 90316-90356	3.5	65
84	Sentiment Analysis from Images of Natural Disasters. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 104-113	0.9	6
83	Adversarial Machine Learning Attack on Modulation Classification <b>2019</b> ,		3
82	Blockchain for AI: Review and Open Research Challenges. <i>IEEE Access</i> , <b>2019</b> , 7, 10127-10149	3.5	333
81	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2019</b> , 20, 285-296	6.1	4
80	Evolutionary Game Theory Perspective on Dynamic Spectrum Access Etiquette. <i>IEEE Access</i> , <b>2018</b> , 6, 13142-13157	3.5	11
79	Enabling Cognitive Smart Cities Using Big Data and Machine Learning: Approaches and Challenges <b>2018</b> , 56, 94-101		163
78	. <i>IEEE Intelligent Transportation Systems Magazine</i> , <b>2018</b> , 10, 110-120	2.6	16
77	Robust Insider Attacks Countermeasure for Hadoop: Design and Implementation. <i>IEEE Systems Journal</i> , <b>2018</b> , 12, 1874-1885	4.3	12
76	. <i>IEEE Internet of Things Journal</i> , <b>2018</b> , 5, 624-635	10.7	193
75	From Channel Selection to Strategy Selection: Enhancing VANETs Using Socially-Inspired Foraging and Deference Strategies. <i>IEEE Transactions on Vehicular Technology</i> , <b>2018</b> , 67, 8919-8933	6.8	7
74	Deep Learning for IoT Big Data and Streaming Analytics: A Survey. <i>IEEE Communications Surveys and Tutorials</i> , <b>2018</b> , 20, 2923-2960	37.1	574
73	Exploiting the Spatio-Temporal Patterns in IoT Data to Establish a Dynamic Ensemble of Distributed Learners. <i>IEEE Access</i> , <b>2018</b> , 6, 63316-63328	3.5	1
72	Adversarial Attacks on Cognitive Self-Organizing Networks: The Challenge and the Way Forward <b>2018</b> ,		11
71	Path Planning in Support of Smart Mobility Applications Using Generative Adversarial Networks <b>2018</b> ,		8
70	<b>2018</b> ,		1
69	SDN Flow Entry Management Using Reinforcement Learning. <i>ACM Transactions on Autonomous and Adaptive Systems</i> , <b>2018</b> , 13, 1-23	1.2	22

68	Optimizing an artificial immune system algorithm in support of flow-Based internet traffic classification. <i>Applied Soft Computing Journal</i> , <b>2017</b> , 54, 1-22	7.5	18
67	Secure Plug-in Electric Vehicle (PEV) Charging in a Smart Grid Network. <i>Energies</i> , <b>2017</b> , 10, 1024	3.1	6
66	Systematization of Knowledge (SoK): A Systematic Review of Software-Based Web Phishing Detection. <i>IEEE Communications Surveys and Tutorials</i> , <b>2017</b> , 19, 2797-2819	37.1	37
65	Parameters optimization of deep learning models using Particle swarm optimization <b>2017</b> ,		46
64	Smart Cities: A Survey on Data Management, Security, and Enabling Technologies. <i>IEEE Communications Surveys and Tutorials</i> , <b>2017</b> , 19, 2456-2501	37.1	264
63	Online Auction of Cloud Resources in Support of the Internet of Things. <i>IEEE Internet of Things Journal</i> , <b>2017</b> , 4, 1583-1596	10.7	17
62	<b>2017</b> ,		1
61	Softwarization of Internet of Things Infrastructure for Secure and Smart Healthcare. <i>Computer</i> , <b>2017</b> , 50, 74-79	1.6	66
60	<b>2017</b> ,		17
59	Managing a cluster of IoT brokers in support of smart city applications <b>2017</b> ,		3
58	Using MapReduce and hierarchical entropy analysis to speed-up the detection of covert timing channels <b>2017</b> ,		4
57	Empowering networking research and experimentation through Software-Defined Networking. <i>Journal of Network and Computer Applications</i> , <b>2016</b> , 70, 140-155	7.9	8
56	Reinforcement learning for resource provisioning in the vehicular cloud. <i>IEEE Wireless Communications</i> , <b>2016</b> , 23, 128-135	13.4	54
55	Social deference and hunger as mechanisms for starvation avoidance in cognitive radio societies <b>2016</b> ,		1
54	Optimization of power and migration cost in virtualized data centers <b>2016</b> ,		3
53	. <i>IEEE Communications Surveys and Tutorials</i> , <b>2015</b> , 17, 2347-2376	37.1	3882
52	Toward better horizontal integration among IoT services <b>2015</b> , 53, 72-79		112
51	The role of hierarchical entropy analysis in the detection and time-scale determination of covert timing channels <b>2015</b> ,		6

50	. <i>IEEE Transactions on Mobile Computing</i> , <b>2015</b> , 14, 1876-1887	4.6	9
49	Software-Defined Networking for RSU Clouds in Support of the Internet of Vehicles. <i>IEEE Internet of Things Journal</i> , <b>2015</b> , 2, 133-144	10.7	154
48	. <i>IEEE Transactions on Vehicular Technology</i> , <b>2014</b> , 63, 2901-2915	6.8	8
47	Artificial Immune System Inspired Algorithm for Flow-Based Internet Traffic Classification <b>2014</b> ,		2
46	RSU cloud and its resource management in support of enhanced vehicular applications <b>2014</b> ,		23
45	Distributed topology control in large-scale hybrid RF/FSO networks: SIMT GPU-based particle swarm optimization approach. <i>International Journal of Communication Systems</i> , <b>2013</b> , 26, 888-911	1.7	10
44	<b>2013</b> ,		14
43	Towards a client-side QoS monitoring and assessment using Generalized Pareto Distribution in a cloud-based environment <b>2013</b> ,		2
42	Design of a Social Collaboration and Precise Localization Services for the Blind and Visually Impaired. <i>Procedia Computer Science</i> , <b>2013</b> , 21, 282-291	1.6	9
41	Context severity based opportunistic service reprioritization for IEEE 802.11p VANETs <b>2013</b> ,		1
40	Efficient failure prediction in autonomic networks based on trend and frequency analysis of anomalous patterns. <i>International Journal of Network Management</i> , <b>2013</b> , 23, 186-213	1.8	4
39	<b>2013</b> ,		14
38	An intelligent data fusion technique based on the particle filter to perform precise outdoor localization. <i>International Journal of Pervasive Computing and Communications</i> , <b>2013</b> , 9, 163-183	3.3	8
37	A Precise Indoor Localization Approach based on Particle Filter and Dynamic Exclusion Techniques. <i>Network Protocols and Algorithms</i> , <b>2013</b> , 5, 50	0.3	16
36	Topology Control Schema for Better QoS in Hybrid RF/FSO Mesh Networks. <i>IEEE Transactions on Communications</i> , <b>2012</b> , 60, 1398-1406	6.9	16
35	<b>2012</b> ,		8
34	A client-based QoS approach using generalized extreme value theorem in multi-hop network environments <b>2012</b> ,		1
33	<b>2012</b> ,		1

32	Two novel learning algorithms to solve the spectrum sharing problem in cognitive radio networks <b>2012,</b>		3
31	Network Layer Protocols <b>2011,</b> 40-62		
30	An efficient artificial landmark-based system for indoor and outdoor identification and localization <b>2011,</b>		2
29	Client-side architecture for mobile service QoS monitoring using Generalized Extreme Value theorem <b>2011,</b>		4
28	<b>2011,</b>		1
27	<b>2010,</b>		17
26	Prediction of performance degradation in telecommunication networks using Joint Clustering and association analysis techniques <b>2010,</b>		3
25	Failure Prediction Based on Multi-Scale Frequent Anomalous Behavior Identification in Support of Autonomic Networks <b>2010,</b>		3
24	A genetic approach for trajectory planning in non-autonomous Mobile Ad-Hoc Networks with QoS requirements <b>2010,</b>		8
23	Reconstruction of malicious internet flows <b>2010,</b>		1
22	A New Hierarchical and Adaptive Protocol for Minimum-Delay V2V Communication <b>2009,</b>		7
21	On Efficient Network Planning and Routing in Large-Scale MANETs. <i>IEEE Transactions on Vehicular Technology</i> , <b>2009</b> , 58, 3796-3801	6.8	15
20	Lagrangean relaxation for service location in large-scale networks with QoS constraints. <i>Wireless Communications and Mobile Computing</i> , <b>2009</b> , 9, 1668-1682	1.9	
19	<b>2009,</b>		3
18	. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2008</b> , 26, 156-167	14.2	32
17	A new generic model for signal propagation in Wi-Fi and WiMAX environments <b>2008,</b>		8
16	Using Lagrangean Relaxation for Service Location Planning with QoS Constraints in Large-Scale Networks <b>2008,</b>		2
15	A Model for Cooperative Mobility and Budgeted QoS in MANETs with Heterogenous Autonomy Requirements <b>2008,</b>		2

14	Detection of Masquerade Attacks on Wireless Sensor Networks <b>2007</b> ,		10
13	Traffic grooming, routing, and wavelength assignment in WDM transport networks with sparse grooming resources. <i>Computer Communications</i> , <b>2007</b> , 30, 3508-3524	5.1	8
12	Geo-encryption protocol for mobile networks. <i>Computer Communications</i> , <b>2007</b> , 30, 2510-2517	5.1	11
11	A service location problem with QoS constraints <b>2007</b> ,		5
10	Surrendering Autonomy: Can Cooperative Mobility Help?. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 901-919		
9	Optimal hierarchical energy efficient design for MANETs <b>2006</b> ,		3
8	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> , <b>2006</b> ,		2
7	A Fuzzy-Based Hierarchical Energy Efficient Routing Protocol for Large Scale Mobile Ad Hoc Networks (FEER) <b>2006</b> ,		10
6	Genetic Approach for Traffic Grooming, Routing, and Wavelength Assignment in WDM Optical Networks with Sparse Grooming Resources <b>2006</b> ,		8
5	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> , <b>2004</b> , 22, 1443-1459	14.2	10
4	Design and Simulation of a New Queuing Architecture for Large-Scale ATM Switches. <i>Simulation</i> , <b>2002</b> , 78, 431-446	1.2	
3	A new queuing strategy for large scale ATM switches <b>2001</b> , 39, 142-146		3
2	New multiprotocol WDM/CDMA-based optical switch architecture		2
1	Engineering Education, Moving into 2020s: Essential Competencies for Effective 21st Century Electrical and Computer Engineers		3