

# Aiman Erbad

## 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.

102  
papers

1,644  
citations

20  
h-index

37  
g-index

149  
ext. papers

2,423  
ext. citations

5.8  
avg, IF

5.59  
L-index

#	Paper	IF	Citations
102	Security Services Using Blockchains: A State of the Art Survey. <i>IEEE Communications Surveys and Tutorials</i> , <b>2019</b> , 21, 858-880	37.1	182
101	Potentials, trends, and prospects in edge technologies: Fog, cloudlet, mobile edge, and micro data centers. <i>Computer Networks</i> , <b>2018</b> , 130, 94-120	5.4	164
100	A survey on service function chaining. <i>Journal of Network and Computer Applications</i> , <b>2016</b> , 75, 138-155	7.9	162
99	Optimal virtual network function placement in multi-cloud service function chaining architecture. <i>Computer Communications</i> , <b>2017</b> , 102, 1-16	5.1	114
98	Edge Computing for Smart Health: Context-Aware Approaches, Opportunities, and Challenges. <i>IEEE Network</i> , <b>2019</b> , 33, 196-203	11.4	84
97	RF-based drone detection and identification using deep learning approaches: An initiative towards a large open source drone database. <i>Future Generation Computer Systems</i> , <b>2019</b> , 100, 86-97	7.5	66
96	Cybersecurity for industrial control systems: A survey. <i>Computers and Security</i> , <b>2020</b> , 89, 101677	4.9	48
95	Edge computing for interactive media and video streaming <b>2017</b> ,		40
94	. <i>IEEE Network</i> , <b>2020</b> , 34, 312-319	11.4	39
93	Machine Learning for Anomaly Detection and Categorization in Multi-Cloud Environments <b>2017</b> ,		32
92	Feasibility of Supervised Machine Learning for Cloud Security <b>2016</b> ,		30
91	MAGIC Broker: A Middleware Toolkit for Interactive Public Displays <b>2008</b> ,		27
90	Clouds + Games: A Multifaceted Approach. <i>IEEE Internet Computing</i> , <b>2014</b> , 18, 20-27	2.4	25
89	Multi-cloud Distribution of Virtual Functions and Dynamic Service Deployment: Open ADN Perspective <b>2015</b> ,		25
88	DroneRF dataset: A dataset of drones for RF-based detection, classification and identification. <i>Data in Brief</i> , <b>2019</b> , 26, 104313	1.2	23
87	Efficient virtual network function placement strategies for Cloud Radio Access Networks. <i>Computer Communications</i> , <b>2018</b> , 127, 50-60	5.1	23
86	. <i>IEEE Internet of Things Journal</i> , <b>2021</b> , 8, 15762-15775	10.7	22

85	Collaborative joint caching and transcoding in mobile edge networks. <i>Journal of Network and Computer Applications</i> , <b>2019</b> , 136, 86-99	7.9	20
84	Multi-objective scheduling of micro-services for optimal service function chains <b>2017</b> ,		20
83	Sender-side buffers and the case for multimedia adaptation. <i>Communications of the ACM</i> , <b>2012</b> , 55, 50-58.5	5.5	20
82	Crowdsourced Multi-View Live Video Streaming using Cloud Computing. <i>IEEE Access</i> , <b>2017</b> , 5, 12635-12647	4.7	19
81	Deanonymizing Tor hidden service users through Bitcoin transactions analysis. <i>Computers and Security</i> , <b>2020</b> , 89, 101684	4.9	18
80	COLAP: A predictive framework for service function chain placement in a multi-cloud environment <b>2017</b> ,		17
79	Blockchain technologies to mitigate COVID-19 challenges: A scoping review. <i>Computer Methods and Programs in Biomedicine Update</i> , <b>2021</b> , 1, 100001		17
78	The P-ART framework for placement of virtual network services in a multi-cloud environment. <i>Computer Communications</i> , <b>2019</b> , 139, 103-122	5.1	16
77	TIDCS: A Dynamic Intrusion Detection and Classification System Based Feature Selection. <i>IEEE Access</i> , <b>2020</b> , 8, 95864-95877	3.5	14
76	A Combined Decision for Secure Cloud Computing Based on Machine Learning and Past Information <b>2019</b> ,		13
75	Impact of Multiple Video Representations in Live Streaming: A Cost, Bandwidth, and QoE Analysis <b>2017</b> ,		12
74	PCCP: Proactive Video Chunks Caching and Processing in edge networks. <i>Future Generation Computer Systems</i> , <b>2020</b> , 105, 44-60	7.5	12
73	Optimal User-Edge Assignment in Hierarchical Federated Learning based on Statistical Properties and Network Topology Constraints. <i>IEEE Transactions on Network Science and Engineering</i> , <b>2021</b> , 1-1	4.9	12
72	Important Complexity Reduction of Random Forest in Multi-Classification Problem <b>2019</b> ,		11
71	A Survey on Recent Approaches in Intrusion Detection System in IoTs <b>2019</b> ,		11
70	<b>2018</b> ,		11
69	SAIS <b>2014</b> ,		10
68	Machine Learning Techniques for Network Anomaly Detection: A Survey <b>2020</b> ,		10

67	. <i>IEEE Internet of Things Journal</i> , <b>2021</b> , 8, 5794-5805	10.7	10
66	QoE-Aware Resource Allocation for Crowdsourced Live Streaming: A Machine Learning Approach <b>2019</b> ,		9
65	Privacy-Preserving Distributed IDS Using Incremental Learning for IoT Health Systems. <i>IEEE Access</i> , <b>2021</b> , 9, 14271-14283	3.5	9
64	To chain or not to chain: A reinforcement learning approach for blockchain-enabled IoT monitoring applications. <i>Future Generation Computer Systems</i> , <b>2020</b> , 111, 39-51	7.5	8
63	Supervised Machine Learning Techniques for Efficient Network Intrusion Detection <b>2019</b> ,		8
62	Proactive Video Chunks Caching and Processing for Latency and Cost Minimization in Edge Networks <b>2019</b> ,		8
61	Exploring microservices for enhancing internet QoS. <i>Transactions on Emerging Telecommunications Technologies</i> , <b>2018</b> , 29, e3445	1.9	8
60	Deep Reinforcement Learning for Network Selection over Heterogeneous Health Systems. <i>IEEE Transactions on Network Science and Engineering</i> , <b>2021</b> , 1-1	4.9	8
59	Nutshell Simulation Toolkit for Modeling Data Center Networks and Cloud Computing. <i>IEEE Access</i> , <b>2019</b> , 7, 19922-19942	3.5	7
58	Hybrid Machine Learning for Network Anomaly Intrusion Detection <b>2020</b> ,		7
57	Traffic Analysis Attacks on Tor: A Survey <b>2020</b> ,		7
56	Cryptocurrencies and Artificial Intelligence: Challenges and Opportunities. <i>IEEE Access</i> , <b>2020</b> , 8, 175840-175858	3.5	7
55	Distributed CNN Inference on Resource-Constrained UAVs for Surveillance Systems: Design and Optimization. <i>IEEE Internet of Things Journal</i> , <b>2021</b> , 1-1	10.7	7
54	Green data center networks: a holistic survey and design guidelines <b>2019</b> ,		6
53	Fault and performance management in multi-cloud virtual network services using AI: A tutorial and a case study. <i>Computer Networks</i> , <b>2019</b> , 165, 106950	5.4	6
52	Paceline <b>2010</b> ,		6
51	DOHA <b>2012</b> ,		6
50	Performance Evaluation of Hyperledger Fabric <b>2020</b> ,		6

49	FacebookVideoLive18: A Live Video Streaming Dataset for Streams Metadata and Online Viewers Locations <b>2020</b> ,		6
48	Anonymity and Privacy in Bitcoin Escrow Trades <b>2019</b> ,		6
47	CE-D2D: Dual Framework Chunks Caching and offloading in Collaborative Edge networks with D2D communication <b>2019</b> ,		5
46	RL-OPRA: Reinforcement Learning for Online and Proactive Resource Allocation of crowdsourced live videos. <i>Future Generation Computer Systems</i> , <b>2020</b> , 112, 982-995	7.5	5
45	Fault and performance management in multi-cloud based NFV using shallow and deep predictive structures. <i>Journal of Reliable Intelligent Environments</i> , <b>2017</b> , 3, 221-231	2.4	5
44	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
43	. <i>IEEE Network</i> , <b>2021</b> , 35, 16-19	11.4	5
42	Collaborative hierarchical caching and transcoding in edge network with CE-D2D communication. <i>Journal of Network and Computer Applications</i> , <b>2020</b> , 172, 102801	7.9	4
41	Service-Less Video Multicast in 5G: Enablers and Challenges. <i>IEEE Network</i> , <b>2020</b> , 34, 270-276	11.4	4
40	Weighted Trustworthiness for ML Based Attacks Classification <b>2020</b> ,		4
39	Transcoding Resources Forecasting and Reservation for Crowdsourced Live Streaming <b>2019</b> ,		4
38	LoRa-RL: Deep Reinforcement Learning for Resource Management in Hybrid Energy LoRa Wireless Networks. <i>IEEE Internet of Things Journal</i> , <b>2021</b> , 1-1	10.7	4
37	An Intelligent Resource Reservation for Crowdsourced Live Video Streaming Applications in Geo-Distributed Cloud Environment. <i>IEEE Systems Journal</i> , <b>2021</b> , 1-13	4.3	4
36	Edge computing for energy-efficient smart health systems <b>2020</b> , 53-67		3
35	Empirical Performance Evaluation of QUIC Protocol for Tor Anonymity Network <b>2019</b> ,		3
34	<b>2015</b> ,		3
33	Sender-side Buffers and the Case for Multimedia Adaptation. <i>Queue</i> , <b>2012</b> , 10, 10-24	0.9	3
32	On Designing Smart Agents for Service Provisioning in Blockchain-powered Systems. <i>IEEE Transactions on Network Science and Engineering</i> , <b>2021</b> , 1-1	4.9	3

31	Smart Edge Healthcare Data Sharing System <b>2020</b> ,		3
30	Machine Learning Based Cloud Computing Anomalies Detection. <i>IEEE Network</i> , <b>2020</b> , 34, 178-183	11.4	3
29	Threshold-Based Data Exclusion Approach for Energy-Efficient Federated Edge Learning <b>2021</b> ,		3
28	Towards development of a tele-mentoring framework for minimally invasive surgeries. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , <b>2021</b> , 17, e2305	2.9	3
27	. <i>IEEE Internet of Things Journal</i> , <b>2021</b> , 8, 6454-6468	10.7	3
26	Multicast at Edge: An Edge Network Architecture for Service-Less Crowdsourced Live Video Multicast. <i>IEEE Access</i> , <b>2021</b> , 9, 59508-59526	3.5	3
25	RL-PDNN: Reinforcement Learning for Privacy-Aware Distributed Neural Networks in IoT Systems. <i>IEEE Access</i> , <b>2021</b> , 9, 54872-54887	3.5	3
24	Efficient EEG Mobile Edge Computing and Optimal Resource Allocation for Smart Health Applications <b>2019</b> ,		2
23	HYPER-VINES: A HYbrid Learning Fault and Performance Issues ERadicator for Virtual Network Services over Multi-Cloud Systems <b>2019</b> ,		2
22	DistPrivacy: Privacy-Aware Distributed Deep Neural Networks in IoT surveillance systems <b>2020</b> ,		2
21	Active Learning With Noisy Labelers for Improving Classification Accuracy of Connected Vehicles. <i>IEEE Transactions on Vehicular Technology</i> , <b>2021</b> , 70, 3059-3070	6.8	2
20	Hierarchical Federated Learning for Collaborative IDS in IoT Applications <b>2021</b> ,		2
19	ONSRA: an Optimal Network Selection and Resource Allocation Framework in multi-RAT Systems <b>2021</b> ,		2
18	Robustness quantification of hierarchical complex networks under targeted failures. <i>Computers and Electrical Engineering</i> , <b>2018</b> , 72, 112-124	4.3	2
17	RL-DistPrivacy: Privacy-Aware Distributed Deep Inference for low latency IoT systems. <i>IEEE Transactions on Network Science and Engineering</i> , <b>2022</b> , 1-1	4.9	2
16	Automated service delivery platform for C-RANs <b>2017</b> ,		1
15	Fuzzy Elliptic Curve Cryptography for Authentication in Internet of Things. <i>IEEE Internet of Things Journal</i> , <b>2021</b> , 1-1	10.7	1
14	Navigation and Obstacle Avoidance System in Unknown Environment <b>2020</b> ,		1

13	Key Generation Based Fuzzy Logic and Elliptic Curve Cryptography for Internet of Things (IoT) Authentication <b>2020</b> ,		1
12	<b>2020</b> ,		1
11	Emotion Recognition for Healthcare Surveillance Systems Using Neural Networks: A Survey <b>2021</b> ,		1
10	AI-based techniques on edge devices to optimize energy efficiency in m-Health applications <b>2020</b> , 1-23		1
9	A Weighted Machine Learning-Based Attacks Classification to Alleviating Class Imbalance. <i>IEEE Systems Journal</i> , <b>2021</b> , 1-12	4.3	1
8	Reinforcement learning approaches for efficient and secure blockchain-powered smart health systems. <i>Computer Networks</i> , <b>2021</b> , 197, 108279	5.4	1
7	Multi-Agent Reinforcement Learning for Network Selection and Resource Allocation in Heterogeneous multi-RAT Networks. <i>IEEE Transactions on Cognitive Communications and Networking</i> , <b>2022</b> , 1-1	6.6	1
6	Preliminary design and evaluation of a remote tele-mentoring system for minimally invasive surgery.. <i>Surgical Endoscopy and Other Interventional Techniques</i> , <b>2022</b> , 36, 3663	5.2	1
5	3-D Stochastic Geometry-based Modeling and Performance Analysis of Efficient Security Enhancement scheme for IoT Systems. <i>IEEE Internet of Things Journal</i> , <b>2021</b> , 1-1	10.7	0
4	QuicTor: Enhancing Tor for Real-Time Communication Using QUIC Transport Protocol. <i>IEEE Access</i> , <b>2021</b> , 9, 28769-28784	3.5	0
3	Video transcoding at the edge: cost and feasibility perspective. <i>Cluster Computing</i> , 1	2.1	0
2	BSG: Predictive Container Auto-Scaling for Cellular Evolved Packet Core. <i>IEEE Access</i> , <b>2021</b> , 9, 158204-158214	3.14	0
1	QDRL: QoS-aware Deep reinforcement learning approach for Tor $\mathbb{U}$ Circuit Scheduling. <i>IEEE Transactions on Network Science and Engineering</i> , <b>2022</b> , 1-1	4.9	0