

Aiman Erbad

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.

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	RL-DistPrivacy: Privacy-Aware Distributed Deep Inference for low latency IoT systems. <i>IEEE Transactions on Network Science and Engineering</i> , 2022 , 1-1	4.9	2
101	Multi-Agent Reinforcement Learning for Network Selection and Resource Allocation in Heterogeneous multi-RAT Networks. <i>IEEE Transactions on Cognitive Communications and Networking</i> , 2022 , 1-1	6.6	1
100	Preliminary design and evaluation of a remote tele-mentoring system for minimally invasive surgery.. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2022 , 36, 3663	5.2	1
99	QDRL: QoS-aware Deep reinforcement learning approach for TorUS Circuit Scheduling. <i>IEEE Transactions on Network Science and Engineering</i> , 2022 , 1-1	4.9	
98	B5G: Predictive Container Auto-Scaling for Cellular Evolved Packet Core. <i>IEEE Access</i> , 2021 , 9, 158204-158314	3.5	14
97	. <i>IEEE Internet of Things Journal</i> , 2021 , 8, 15762-15775	10.7	22
96	Fuzzy Elliptic Curve Cryptography for Authentication in Internet of Things. <i>IEEE Internet of Things Journal</i> , 2021 , 1-1	10.7	1
95	On Designing Smart Agents for Service Provisioning in Blockchain-powered Systems. <i>IEEE Transactions on Network Science and Engineering</i> , 2021 , 1-1	4.9	3
94	Active Learning With Noisy Labelers for Improving Classification Accuracy of Connected Vehicles. <i>IEEE Transactions on Vehicular Technology</i> , 2021 , 70, 3059-3070	6.8	2
93	. <i>IEEE Internet of Things Journal</i> , 2021 , 8, 5794-5805	10.7	10
92	Hierarchical Federated Learning for Collaborative IDS in IoT Applications 2021 ,		2
91	Threshold-Based Data Exclusion Approach for Energy-Efficient Federated Edge Learning 2021 ,		3
90	ONSRA: an Optimal Network Selection and Resource Allocation Framework in multi-RAT Systems 2021 ,		2
89	Emotion Recognition for Healthcare Surveillance Systems Using Neural Networks: A Survey 2021 ,		1
88	Towards development of a tele-mentoring framework for minimally invasive surgeries. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2021 , 17, e2305	2.9	3
87	. <i>IEEE Internet of Things Journal</i> , 2021 , 8, 6454-6468	10.7	3
86	A Weighted Machine Learning-Based Attacks Classification to Alleviating Class Imbalance. <i>IEEE Systems Journal</i> , 2021 , 1-12	4.3	1

85	Blockchain technologies to mitigate COVID-19 challenges: A scoping review. <i>Computer Methods and Programs in Biomedicine Update</i> , 2021 , 1, 100001		17
84	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
83	. <i>IEEE Network</i> , 2021 , 35, 16-19	11.4	5
82	LoRa-RL: Deep Reinforcement Learning for Resource Management in Hybrid Energy LoRa Wireless Networks. <i>IEEE Internet of Things Journal</i> , 2021 , 1-1	10.7	4
81	3-D Stochastic Geometry-based Modeling and Performance Analysis of Efficient Security Enhancement scheme for IoT Systems. <i>IEEE Internet of Things Journal</i> , 2021 , 1-1	10.7	0
80	Multicast at Edge: An Edge Network Architecture for Service-Less Crowdsourced Live Video Multicast. <i>IEEE Access</i> , 2021 , 9, 59508-59526	3.5	3
79	An Intelligent Resource Reservation for Crowdsourced Live Video Streaming Applications in Geo-Distributed Cloud Environment. <i>IEEE Systems Journal</i> , 2021 , 1-13	4.3	4
78	Distributed CNN Inference on Resource-Constrained UAVs for Surveillance Systems: Design and Optimization. <i>IEEE Internet of Things Journal</i> , 2021 , 1-1	10.7	7
77	Privacy-Preserving Distributed IDS Using Incremental Learning for IoT Health Systems. <i>IEEE Access</i> , 2021 , 9, 14271-14283	3.5	9
76	RL-PDNN: Reinforcement Learning for Privacy-Aware Distributed Neural Networks in IoT Systems. <i>IEEE Access</i> , 2021 , 9, 54872-54887	3.5	3
75	QuicTor: Enhancing Tor for Real-Time Communication Using QUIC Transport Protocol. <i>IEEE Access</i> , 2021 , 9, 28769-28784	3.5	0
74	Reinforcement learning approaches for efficient and secure blockchain-powered smart health systems. <i>Computer Networks</i> , 2021 , 197, 108279	5.4	1
73	Deep Reinforcement Learning for Network Selection over Heterogeneous Health Systems. <i>IEEE Transactions on Network Science and Engineering</i> , 2021 , 1-1	4.9	8
72	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> , 2021 , 1-1	4.9	12
71	Collaborative hierarchical caching and transcoding in edge network with CE-D2D communication. <i>Journal of Network and Computer Applications</i> , 2020 , 172, 102801	7.9	4
70	. <i>IEEE Network</i> , 2020 , 34, 312-319	11.4	39
69	TIDCS: A Dynamic Intrusion Detection and Classification System Based Feature Selection. <i>IEEE Access</i> , 2020 , 8, 95864-95877	3.5	14
68	Service-Less Video Multicast in 5G: Enablers and Challenges. <i>IEEE Network</i> , 2020 , 34, 270-276	11.4	4

67	Hybrid Machine Learning for Network Anomaly Intrusion Detection 2020 ,		7
66	RL-OPRA: Reinforcement Learning for Online and Proactive Resource Allocation of crowdsourced live videos. <i>Future Generation Computer Systems</i> , 2020 , 112, 982-995	7.5	5
65	Weighted Trustworthiness for ML Based Attacks Classification 2020 ,		4
64	To chain or not to chain: A reinforcement learning approach for blockchain-enabled IoT monitoring applications. <i>Future Generation Computer Systems</i> , 2020 , 111, 39-51	7.5	8
63	Edge computing for energy-efficient smart health systems 2020 , 53-67		3
62	Machine Learning Techniques for Network Anomaly Detection: A Survey 2020 ,		10
61	Traffic Analysis Attacks on Tor: A Survey 2020 ,		7
60	Performance Evaluation of Hyperledger Fabric 2020 ,		6
59	Navigation and Obstacle Avoidance System in Unknown Environment 2020 ,		1
58	Key Generation Based Fuzzy Logic and Elliptic Curve Cryptography for Internet of Things (IoT) Authentication 2020 ,		1
57	DistPrivacy: Privacy-Aware Distributed Deep Neural Networks in IoT surveillance systems 2020 ,		2
56	PCCP: Proactive Video Chunks Caching and Processing in edge networks. <i>Future Generation Computer Systems</i> , 2020 , 105, 44-60	7.5	12
55	Cybersecurity for industrial control systems: A survey. <i>Computers and Security</i> , 2020 , 89, 101677	4.9	48
54	Deanonymizing Tor hidden service users through Bitcoin transactions analysis. <i>Computers and Security</i> , 2020 , 89, 101684	4.9	18
53	Cryptocurrencies and Artificial Intelligence: Challenges and Opportunities. <i>IEEE Access</i> , 2020 , 8, 175840-175858	3.5	57
52	FacebookVideoLive18: A Live Video Streaming Dataset for Streams Metadata and Online Viewers Locations 2020 ,		6
51	Smart Edge Healthcare Data Sharing System 2020 ,		3
50	2020 ,		1

49	Machine Learning Based Cloud Computing Anomalies Detection. <i>IEEE Network</i> , 2020 , 34, 178-183	11.4	3
48	AI-based techniques on edge devices to optimize energy efficiency in m-Health applications 2020 , 1-23		1
47	Efficient EEG Mobile Edge Computing and Optimal Resource Allocation for Smart Health Applications 2019 ,		2
46	Important Complexity Reduction of Random Forest in Multi-Classification Problem 2019 ,		11
45	Green data center networks: a holistic survey and design guidelines 2019 ,		6
44	CE-D2D: Dual Framework Chunks Caching and offloading in Collaborative Edge networks with D2D communication 2019 ,		5
43	DroneRF dataset: A dataset of drones for RF-based detection, classification and identification. <i>Data in Brief</i> , 2019 , 26, 104313	1.2	23
42	HYPER-VINES: A HYbrid Learning Fault and Performance Issues ERadicator for Virtual Network Services over Multi-Cloud Systems 2019 ,		2
41	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> , 2019 , 100, 86-97	7.5	66
40	The P-ART framework for placement of virtual network services in a multi-cloud environment. <i>Computer Communications</i> , 2019 , 139, 103-122	5.1	16
39	Edge Computing for Smart Health: Context-Aware Approaches, Opportunities, and Challenges. <i>IEEE Network</i> , 2019 , 33, 196-203	11.4	84
38	Collaborative joint caching and transcoding in mobile edge networks. <i>Journal of Network and Computer Applications</i> , 2019 , 136, 86-99	7.9	20
37	NutshellSimulation Toolkit for Modeling Data Center Networks and Cloud Computing. <i>IEEE Access</i> , 2019 , 7, 19922-19942	3.5	7
36	Security Services Using Blockchains: A State of the Art Survey. <i>IEEE Communications Surveys and Tutorials</i> , 2019 , 21, 858-880	37.1	182
35	Empirical Performance Evaluation of QUIC Protocol for Tor Anonymity Network 2019 ,		3
34	QoE-Aware Resource Allocation for Crowdsourced Live Streaming: A Machine Learning Approach 2019 ,		9
33	A Survey on Recent Approaches in Intrusion Detection System in IoTs 2019 ,		11
32	Fault and performance management in multi-cloud virtual network services using AI: A tutorial and a case study. <i>Computer Networks</i> , 2019 , 165, 106950	5.4	6

31	A Combined Decision for Secure Cloud Computing Based on Machine Learning and Past Information 2019 ,		13
30	Transcoding Resources Forecasting and Reservation for Crowdsourced Live Streaming 2019 ,		4
29	Anonymity and Privacy in Bitcoin Escrow Trades 2019 ,		6
28	Supervised Machine Learning Techniques for Efficient Network Intrusion Detection 2019 ,		8
27	Proactive Video Chunks Caching and Processing for Latency and Cost Minimization in Edge Networks 2019 ,		8
26	Potentials, trends, and prospects in edge technologies: Fog, cloudlet, mobile edge, and micro data centers. <i>Computer Networks</i> , 2018 , 130, 94-120	5-4	164
25	Robustness quantification of hierarchical complex networks under targeted failures. <i>Computers and Electrical Engineering</i> , 2018 , 72, 112-124	4-3	2
24	2018 ,		11
23	Efficient virtual network function placement strategies for Cloud Radio Access Networks. <i>Computer Communications</i> , 2018 , 127, 50-60	5-1	23
22	Exploring microservices for enhancing internet QoS. <i>Transactions on Emerging Telecommunications Technologies</i> , 2018 , 29, e3445	1-9	8
21	Optimal virtual network function placement in multi-cloud service function chaining architecture. <i>Computer Communications</i> , 2017 , 102, 1-16	5-1	114
20	COLAP: A predictive framework for service function chain placement in a multi-cloud environment 2017 ,		17
19	Impact of Multiple Video Representations in Live Streaming: A Cost, Bandwidth, and QoE Analysis 2017 ,		12
18	Edge computing for interactive media and video streaming 2017 ,		40
17	Automated service delivery platform for C-RANs 2017 ,		1
16	Machine Learning for Anomaly Detection and Categorization in Multi-Cloud Environments 2017 ,		32
15	Fault and performance management in multi-cloud based NFV using shallow and deep predictive structures. <i>Journal of Reliable Intelligent Environments</i> , 2017 , 3, 221-231	2-4	5
14	Crowdsourced Multi-View Live Video Streaming using Cloud Computing. <i>IEEE Access</i> , 2017 , 5, 12635-12643	4-3	19

13	Multi-objective scheduling of micro-services for optimal service function chains 2017 ,		20
12	Feasibility of Supervised Machine Learning for Cloud Security 2016 ,		30
11	A survey on service function chaining. <i>Journal of Network and Computer Applications</i> , 2016 , 75, 138-155	7.9	162
10	2015 ,		3
9	Multi-cloud Distribution of Virtual Functions and Dynamic Service Deployment: Open ADN Perspective 2015 ,		25
8	Clouds + Games: A Multifaceted Approach. <i>IEEE Internet Computing</i> , 2014 , 18, 20-27	2.4	25
7	SAIS 2014 ,		10
6	Sender-side buffers and the case for multimedia adaptation. <i>Communications of the ACM</i> , 2012 , 55, 50-58.5		20
5	Sender-side Buffers and the Case for Multimedia Adaptation. <i>Queue</i> , 2012 , 10, 10-24	0.9	3
4	DOHA 2012 ,		6
3	Paceline 2010 ,		6
2	MAGIC Broker: A Middleware Toolkit for Interactive Public Displays 2008 ,		27
1	Video transcoding at the edge: cost and feasibility perspective. <i>Cluster Computing</i> , 1	2.1	0