

Abdallah Shami

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130
papers

2,669
citations

27
h-index

48
g-index

141
ext. papers

3,701
ext. citations

5.8
avg, IF

6.2
L-index

#	Paper	IF	Citations
130	NFV: state of the art, challenges, and implementation in next generation mobile networks (vEPC). <i>IEEE Network</i> , 2014 , 28, 18-26	11.4	276
129	Resource allocation in a network-based cloud computing environment: design challenges. <i>IEEE Communications Magazine</i> , 2013 , 51, 46-52	9.1	251
128	On hyperparameter optimization of machine learning algorithms: Theory and practice. <i>Neurocomputing</i> , 2020 , 415, 295-316	5.4	196
127	. <i>Journal of Lightwave Technology</i> , 2007 , 25, 277-286	4	124
126	Recursive Principal Component Analysis-Based Data Outlier Detection and Sensor Data Aggregation in IoT Systems. <i>IEEE Internet of Things Journal</i> , 2017 , 4, 2207-2216	10.7	82
125	On the fairness of dynamic bandwidth allocation schemes in Ethernet passive optical networks. <i>Computer Communications</i> , 2006 , 29, 2123-2135	5.1	69
124	Network Function Virtualization-Aware Orchestrator for Service Function Chaining Placement in the Cloud. <i>IEEE Journal on Selected Areas in Communications</i> , 2019 , 37, 643-655	14.2	63
123	Energy-Aware Resource Allocation Strategies for LTE Uplink with Synchronous HARQ Constraints. <i>IEEE Transactions on Mobile Computing</i> , 2014 , 13, 422-433	4.6	62
122	Edge-Enabled V2X Service Placement for Intelligent Transportation Systems. <i>IEEE Transactions on Mobile Computing</i> , 2021 , 20, 1380-1392	4.6	51
121	A distributed frequent itemset mining algorithm using Spark for Big Data analytics. <i>Cluster Computing</i> , 2015 , 18, 1493-1501	2.1	50
120	Data Mining Techniques in Intrusion Detection Systems: A Systematic Literature Review. <i>IEEE Access</i> , 2018 , 6, 56046-56058	3.5	50
119	Intra-ONU bandwidth scheduling in Ethernet passive optical networks. <i>IEEE Communications Letters</i> , 2004 , 8, 683-685	3.8	49
118	Wireless Resource Virtualization With Device-to-Device Communication Underlying LTE Network. <i>IEEE Transactions on Broadcasting</i> , 2015 , 61, 734-740	4.7	47
117	Tree-Based Intelligent Intrusion Detection System in Internet of Vehicles 2019 ,		45
116	E-Learning: Challenges and Research Opportunities Using Machine Learning & Data Analytics. <i>IEEE Access</i> , 2018 , 6, 39117-39138	3.5	44
115	A Review of Multihoming Issues Using the Stream Control Transmission Protocol. <i>IEEE Communications Surveys and Tutorials</i> , 2012 , 14, 565-578	37.1	42
114	QoS-Aware Power-Efficient Scheduler for LTE Uplink. <i>IEEE Transactions on Mobile Computing</i> , 2015 , 14, 1672-1685	4.6	40

113	Multi-Stage Optimized Machine Learning Framework for Network Intrusion Detection. <i>IEEE Transactions on Network and Service Management</i> , 2021 , 18, 1803-1816	4.8	40
112	QoS control schemes for two-stage Ethernet passive optical access networks. <i>IEEE Journal on Selected Areas in Communications</i> , 2005 , 23, 1467-1478	14.2	35
111	UAV-Enabled Spatial Data Sampling in Large-Scale IoT Systems Using Denoising Autoencoder Neural Network. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 1856-1865	10.7	35
110	Student Engagement Level in an e-Learning Environment: Clustering Using K-means. <i>American Journal of Distance Education</i> , 2020 , 34, 137-156	3.4	34
109	Wireless resources virtualization in LTE systems 2014 ,		33
108	One-Shot Blind Channel Estimation for OFDM Systems Over Frequency-Selective Fading Channels. <i>IEEE Transactions on Communications</i> , 2017 , 65, 5445-5458	6.9	30
107	Bayesian Optimization with Machine Learning Algorithms Towards Anomaly Detection 2018 ,		30
106	Turbo Product Codes: Applications, Challenges, and Future Directions. <i>IEEE Communications Surveys and Tutorials</i> , 2016 , 18, 3052-3069	37.1	29
105	. <i>IEEE Network</i> , 2019 , 33, 226-233	11.4	28
104	Systematic ensemble model selection approach for educational data mining. <i>Knowledge-Based Systems</i> , 2020 , 200, 105992	7.3	27
103	Per-Stream QoS and Admission Control in Ethernet Passive Optical Networks (EPONs). <i>Journal of Lightwave Technology</i> , 2007 , 25, 1659-1669	4	26
102	Orchestrating network function virtualization platform: Migration or re-instantiation? 2017 ,		25
101	High availability-aware optimization digest for applications deployment in cloud 2015 ,		23
100	A Novel Fog Computing Enabled Temporal Data Reduction Scheme in IoT Systems 2017 ,		23
99	Multi-split optimized bagging ensemble model selection for multi-class educational data mining. <i>Applied Intelligence</i> , 2020 , 50, 4506-4528	4.9	22
98	Adaptive Fairness through intra-ONU Scheduling for Ethernet Passive Optical Networks 2006 ,		21
97	. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 1311-1322	9.6	20
96	Integrated Routing Algorithms for Provisioning Sub-Wavelength Connections in IP-Over-WDM Networks. <i>Photonic Network Communications</i> , 2002 , 4, 377-390	1.7	19

95	Hailing cloud empowered radio access networks. <i>IEEE Wireless Communications</i> , 2015 , 22, 122-129	13.4	18
94	CHASE: Component High Availability-Aware Scheduler in Cloud Computing Environment 2015 ,		18
93	Toward Quality of Service Protection in Ethernet Passive Optical Networks: Challenges and Solutions. <i>IEEE Network</i> , 2007 , 21, 12-19	11.4	18
92	Ring-based local access PON architecture for supporting private networking capability. <i>Journal of Optical Networking</i> , 2006 , 5, 26		18
91	2018 ,		18
90	. <i>IEEE Vehicular Technology Magazine</i> , 2017 , 12, 39-47	9.9	17
89	An evergreen cloud: Optimizing energy efficiency in heterogeneous cloud computing architectures. <i>Vehicular Communications</i> , 2017 , 9, 199-210	5.7	17
88	. <i>IEEE Transactions on Mobile Computing</i> , 2008 , 7, 416-429	4.6	16
87	On the Security of SDN: A Completed Secure and Scalable Framework Using the Software-Defined Perimeter. <i>IEEE Access</i> , 2019 , 7, 146577-146587	3.5	15
86	. <i>IEEE Transactions on Mobile Computing</i> , 2018 , 17, 1411-1428	4.6	15
85	Energy Efficient Resource Allocation in SC-FDMA Uplink with Synchronous HARQ Constraints 2011 ,		15
84	Evaluating High Availability-Aware Deployments Using Stochastic Petri Net Model and Cloud Scoring Selection Tool. <i>IEEE Transactions on Services Computing</i> , 2017 , 1-1	4.8	14
83	Power-Aware Wireless Virtualized Resource Allocation with D2D Communication Underlying LTE Network 2016 ,		13
82	Machine Learning for Performance-Aware Virtual Network Function Placement 2019 ,		13
81	Machine learning towards intelligent systems: applications, challenges, and opportunities. <i>Artificial Intelligence Review</i> , 2021 , 54, 3299-3348	9.7	13
80	Relationship Between Student Engagement and Performance in E-Learning Environment Using Association Rules 2018 ,		13
79	MTH-IDS: A Multi-Tiered Hybrid Intrusion Detection System for Internet of Vehicles. <i>IEEE Internet of Things Journal</i> , 2021 , 1-1	10.7	13
78	Two dimensional cross-layer optimization for packet transmission over fading channel. <i>IEEE Transactions on Wireless Communications</i> , 2008 , 7, 3813-3822	9.6	12

77	Temporal and spatial correlation based distributed fault detection in wireless sensor networks 2015 ,		11
76	Inside-Out Propagation: Developing a Unified Model for the Interference in 5G Networks. <i>IEEE Vehicular Technology Magazine</i> , 2015 , 10, 47-54	9.9	11
75	Distributed FlowVisor: a distributed FlowVisor platform for quality of service aware cloud network virtualisation. <i>IET Networks</i> , 2015 , 4, 270-277	2.8	10
74	On-demand scheduling for concurrent multipath transfer using the stream control transmission protocol. <i>Journal of Network and Computer Applications</i> , 2015 , 47, 11-22	7.9	10
73	Analytical Approximation of Packet Delay Jitter in Simple Queues. <i>IEEE Wireless Communications Letters</i> , 2016 , 5, 564-567	5.9	10
72	Availability Analysis of Cloud Deployed Applications 2016 ,		10
71	Analysis of capacity re-provisioning in optical mesh networks. <i>IEEE Communications Letters</i> , 2005 , 9, 658-660		10
70	. <i>Journal of Communications and Networks</i> , 2017 , 19, 402-415	4.1	9
69	A Lightweight Concept Drift Detection and Adaptation Framework for IoT Data Streams. <i>IEEE Internet of Things Magazine</i> , 2021 , 4, 96-101	3.5	9
68	Mitigating the Risk of Cloud Services Downtime Using Live Migration and High Availability-Aware Placement 2016 ,		9
67	Performance Analysis of SDP For Secure Internal Enterprises 2019 ,		9
66	Exploring Microservices as the Architecture of Choice for Network Function Virtualization Platforms. <i>IEEE Network</i> , 2019 , 33, 202-210	11.4	8
65	Towards an Elasticity Framework for Legacy Highly Available Applications in the Cloud 2015 ,		8
64	Multilevel Security Framework for NFV Based on Software Defined Perimeter. <i>IEEE Network</i> , 2020 , 34, 114-119	11.4	8
63	Drawing the Cloud Map: Virtual Network Provisioning in Distributed Cloud Computing Data Centers. <i>IEEE Systems Journal</i> , 2018 , 12, 1480-1491	4.3	8
62	Dynamic SON-Enabled Location Management in LTE Networks. <i>IEEE Transactions on Mobile Computing</i> , 2018 , 17, 1511-1523	4.6	8
61	A Formal Model for the Availability Analysis of Cloud Deployed Multi-tiered Applications 2016 ,		8
60	Multiple link failures survivability of optical networks with traffic grooming capability. <i>Computer Communications</i> , 2006 , 29, 3900-3912	5.1	7

59	Softwarization, Virtualization, & Machine Learning For Intelligent & Effective V2X Communications. <i>IEEE Intelligent Transportation Systems Magazine</i> , 2020 , 0-0	2.6	7
58	On IoT applications: a proposed SDP framework for MQTT. <i>Electronics Letters</i> , 2019 , 55, 1201-1203	1.1	7
57	The Need for Advanced Intelligence in NFV Management and Orchestration. <i>IEEE Network</i> , 2021 , 35, 365-371	11.4	7
56	NFV/SDN-based vEPC solution in hybrid clouds 2018 ,		6
55	2015 ,		6
54	On-demand scheduling for concurrent multipath transfer under delay-based disparity 2012 ,		6
53	An Analytic Model for the Stream Control Transmission Protocol 2010 ,		6
52	Energy Efficient Quality of Service Traffic Scheduler for MIMO Downlink SVD Channels. <i>IEEE Transactions on Wireless Communications</i> , 2010 , 9, 3750-3761	9.6	6
51	Ensemble-based Feature Selection and Classification Model for DNS Typo-squatting Detection 2020 ,		6
50	Detecting Botnet Attacks in IoT Environments: An Optimized Machine Learning Approach 2020 ,		6
49	Coexistence of WiFi and LTE in the Unlicensed Band Using Time-Domain Virtualization 2018 ,		6
48	ACE: Availability-Aware CloudSim Extension. <i>IEEE Transactions on Network and Service Management</i> , 2018 , 15, 1586-1599	4.8	6
47	. <i>IEEE Internet of Things Journal</i> , 2020 , 7, 4972-4986	10.7	5
46	A Novel MIMO-Aware Distributed Media Access Control Scheme for IEEE 802.11 Wireless Local Area Networks 2007 ,		5
45	Advance lightpath reservation for WDM networks with dynamic traffic. <i>Journal of Optical Networking</i> , 2007 , 6, 913		5
44	. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 12432-12448	6.8	5
43	Cost-optimal V2X Service Placement in Distributed Cloud/Edge Environment 2020 ,		5
42	Water Leak Detection Survey: Challenges & Research Opportunities Using Data Fusion & Federated Learning. <i>IEEE Access</i> , 2021 , 9, 40595-40611	3.5	5

41	Securing Smart Home Networks with Software-Defined Perimeter 2019 ,		4
40	On efficient power allocation modeling in virtualized uplink 3GPP-LTE systems 2015 ,		4
39	QoS, Channel and Energy-Aware Packet Scheduling over Multiple Channels. <i>IEEE Transactions on Wireless Communications</i> , 2011 , 10, 1058-1062	9.6	4
38	Advanced Lightpath Reservation in WDM Networks 2006 ,		4
37	Optimized Random Forest Model for Botnet Detection Based on DNS Queries 2020 ,		4
36	Generic input template for cloud simulators: A case study of CloudSim. <i>Software - Practice and Experience</i> , 2019 , 49, 720-747	2.5	4
35	Energy-Efficient Scheduling Mechanism for Indoor Wireless Sensor Networks 2015 ,		3
34	Power efficient scheduling over fading channel for cross-layer optimization. <i>Wireless Communications and Mobile Computing</i> , 2012 , 12, 1215-1224	1.9	3
33	Analysis of Enhanced Collision Avoidance Scheme Proposed for IEEE 802.11e-Enhanced Distributed Channel Access Protocol. <i>IEEE Transactions on Mobile Computing</i> , 2009 , 8, 1353-1367	4.6	3
32	Connection management algorithm for advance lightpath reservation in WDM networks 2007 ,		3
31	Wireless resource virtualization: opportunities, challenges, and solutions. <i>Wireless Communications and Mobile Computing</i> , 2016 , 16, 2690-2699	1.9	3
30	A novel R-PCA based multivariate fault-tolerant data aggregation algorithm in WSNs 2016 ,		3
29	On a Cognitive Radio Network's Random Access Game With a Poisson Number of Secondary Users. <i>IEEE Communications Letters</i> , 2015 , 19, 1818-1821	3.8	2
28	WSNp1-5: Analysis of a New 802.11 Distributed Media Access Control Protocol. <i>IEEE Global Telecommunications Conference (GLOBECOM)</i> , 2006 ,		2
27	Analysis of New Distributed-Media Access-Control Schemes for IEEE 802.11 Wireless Local-Area Networks. <i>IEEE Transactions on Vehicular Technology</i> , 2007 , 56, 1797-1812	6.8	2
26	A Collision Avoidance Mechanism for IEEE 802.11e EDCA Protocol to Improve Voice Transmissions in Wireless Local Area Networks 2007 ,		2
25	Connection Management Protocols for Dynamic Lightpath Provisioning in Future WDM Networks. <i>Photonic Network Communications</i> , 2003 , 6, 25-32	1.7	2
24	Architectural Options for the Next-Generation Networking Paradigm: Is Optical Internet the Answer?. <i>Photonic Network Communications</i> , 2001 , 3, 7-21	1.7	2

23	Autocorrelation Integrated Gaussian Based Anomaly Detection using Sensory Data in Industrial Manufacturing. <i>IEEE Sensors Journal</i> , 2021 , 21, 9231-9241	4	2
22	Power-Aware Coexistence of Wi-Fi and LTE in the Unlicensed Band Using Time-Domain Virtualization. <i>Canadian Journal of Electrical and Computer Engineering</i> , 2021 , 44, 289-301	1.4	2
21	Green Distributed Cloud Services Provisioning in SDN-enabled Cloud Environment 2018 ,		2
20	Multi-Perspective Content Delivery Networks Security Framework Using Optimized Unsupervised Anomaly Detection. <i>IEEE Transactions on Network and Service Management</i> , 2021 , 1-1	4.8	2
19	Federated Intelligence for Active Queue Management in Inter-Domain Congestion. <i>IEEE Access</i> , 2021 , 9, 10674-10685	3.5	2
18	On End-to-End Intelligent Automation of 6G Networks. <i>Future Internet</i> , 2022 , 14, 165	3.3	2
17	Optimal location management in LTE networks using evolutionary techniques. <i>International Journal of Communication Systems</i> , 2019 , 32, e4100	1.7	1
16	Depth-Optimized Delay-Aware Tree (DO-DAT) for Virtual Network Function Placement. <i>IEEE Networking Letters</i> , 2020 , 2, 149-153	2.8	1
15	Wireless security: securing mobile UMTS communications from interoperation of GSM. <i>Security and Communication Networks</i> , 2013 , 6, 498-508	1.9	1
14	Enhancing channel utilization by improving media access coordination in wireless local area networks. <i>Wireless Communications and Mobile Computing</i> , 2008 , 8, 155-169	1.9	1
13	Improving signaling recovery in shared mesh optical networks. <i>Computer Communications</i> , 2005 , 29, 59-68	3.1	1
12	A Transfer Learning Framework for Anomaly Detection Using Model of Normality 2020 ,		1
11	The TriLS Approach for Drift-Aware Time-Series Prediction in IIoT Environment. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 1-1	11.9	1
10	Efficient execution plan for egress traffic engineering. <i>Computer Networks</i> , 2021 , 190, 107938	5.4	1
9	Physical Topology Discovery Scheme for Wireless Sensor Networks Using Random Walk Process 2016 ,		1
8	Detecting DNS Typo-Squatting Using Ensemble-Based Feature Selection & Classification Models Détection du typosquatting DNS à l'aide de modèles de sélection et de classification basés sur un ensemble de caractéristiques. <i>Canadian Journal of Electrical and Computer Engineering</i> , 2021 , 1-11	1.4	1
7	An Attention-Based ConvLSTM Autoencoder with Dynamic Thresholding for Unsupervised Anomaly Detection in Multivariate Time Series. <i>Machine Learning and Knowledge Extraction</i> , 2022 , 4, 350-370	3.1	1
6	Performance evaluation of MIMO-aware media access control protocol. <i>Physical Communication</i> , 2009 , 2, 204-216	2.2	0

- 5 Optimal Container Migration/Re-Instantiation in Hybrid Computing Environments. *IEEE Open Journal of the Communications Society*, **2022**, 3, 15-30 6.7 0
- 4 Design, implementation, and evaluation of a field-programmable gate array-based wireless local area network synchronizer. *Wireless Communications and Mobile Computing*, **2013**, 13, 1082-1094 1.9
- 3 A new reconfiguration protocol for mesh optical networks. *IEEE Communications Letters*, **2005**, 9, 558-560 0.8
- 2 Performance Evaluation of Shared Mesh Protection in WDM Networks. *Cluster Computing*, **2004**, 7, 271-280 2.0
- 1 A Machine Learning-Based Migration Strategy for Virtual Network Function Instances. *Advances in Intelligent Systems and Computing*, **2021**, 563-577 0.4