Alan Davy

List of Publications by Year
in descending order

57 papers	1,248 citations	623734 14 h-index	642732 23 g-index
59 all docs	59 docs citations	59 times ranked	1402 citing authors

#	Article	IF	Citations
1	Resource aware placement of IoT application modules in Fog-Cloud Computing Paradigm. , 2017, , .		223
2	Software Defined Networks-Based Smart Grid Communication: A Comprehensive Survey. IEEE Communications Surveys and Tutorials, 2019, 21, 2637-2670.	39.4	141
3	Topology-Aware Prediction of Virtual Network Function Resource Requirements. IEEE Transactions on Network and Service Management, 2017, 14, 106-120.	4.9	104
4	MAC Protocols for Terahertz Communication: A Comprehensive Survey. IEEE Communications Surveys and Tutorials, 2020, 22, 2236-2282.	39.4	75
5	Machine learning based fog computing assisted data-driven approach for early lameness detection in dairy cattle. Computers and Electronics in Agriculture, 2020, 171, 105286.	7.7	71
6	Performance Analysis of Plant Monitoring Nanosensor Networks at THz Frequencies. IEEE Internet of Things Journal, 2016, 3, 59-69.	8.7	69
7	SmartHerd management: A microservicesâ€based fog computingâ€"assisted IoT platform towards dataâ€driven smart dairy farming. Software - Practice and Experience, 2019, 49, 1055-1078.	3.6	54
8	Resource Aware Placement of Data Analytics Platform in Fog Computing. Procedia Computer Science, 2016, 97, 153-156.	2.0	37
9	Digital Twin for Metasurface Reflector Management in 6G Terahertz Communications. IEEE Access, 2020, 8, 114580-114596.	4.2	36
10	A connectionist approach to dynamic resource management for virtualised network functions. , 2016, , .		35
11	Dynamic channel allocation in electromagnetic nanonetworks for high resolution monitoring of plants. Nano Communication Networks, 2016, 7, 2-16.	2.9	32
12	Distributed Decomposed Data Analytics in Fog Enabled IoT Deployments. IEEE Access, 2019, 7, 40969-40981.	4.2	27
13	Fog assisted application support for animal behaviour analysis and health monitoring in dairy farming. , 2018, , .		22
14	Deep Reinforcement Learning for Topology-Aware VNF Resource Prediction in NFV Environments. , 2019, , .		22
15	Variability of Terahertz Transmission Measured in Live Plant Leaves. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 636-638.	3.1	20
16	Connected Cows: Utilizing Fog and Cloud Analytics toward Data-Driven Decisions for Smart Dairy Farming. IEEE Internet of Things Magazine, 2019, 2, 32-37.	2.6	20
17	Achieving Resilience in SDN-Based Smart Grid: A Multi-Armed Bandit Approach. , 2018, , .		18
18	ETSI Industry Specification Group on Autonomic Network Engineering for the Self-managing Future Internet (ETSI ISG AFI). Lecture Notes in Computer Science, 2009, , 61-62.	1.3	16

#	Article	IF	Citations
19	Revenue Optimized IPTV Admission Control Using Empirical Effective Bandwidth Estimation. IEEE Transactions on Broadcasting, 2008, 54, 599-611.	3.2	15
20	A Path-Loss Model Incorporating Shadowing for THz Band Propagation in Vegetation. , 2015, , .		15
21	Lameness Detection as a Service: Application of Machine Learning to an Internet of Cattle. , 2019, , .		14
22	On the Use of Accounting Data for QoS-Aware IP Network Planning. , 2007, , 348-360.		13
23	GA-based frequency selection strategies for graphene-based nano-communication networks. , 2014, , .		12
24	Modeling and Link Quality Assessment of THz Network Within Data Center. , 2019, , .		12
25	Poster Abstract: Resource Aware Placement of Data Stream Analytics Operators on Fog Infrastructure for Internet of Things Applications. , 2016, , .		11
26	Building an end user focused THz based ultra high bandwidth wireless access network: The TERAPOD approach. , 2017, , .		11
27	An Efficient Process for Estimation of Network Demand for QoS-Aware IP Network Planning. Lecture Notes in Computer Science, 2006, , 120-131.	1.3	11
28	QoS-aware multipathing in datacenters using effective bandwidth estimation and SDN. , 2016, , .		9
29	Transmission through Single and Multiple Layers of Plant Leaves at THz Frequencies. , 2017, , .		9
30	Process for QoS-Aware IP Network Planning Using Accounting Data and Effective Bandwidth Estimation. , 2007, , .		8
31	An empirical study of effective capacity throughputs in 802.11 wireless networks. , 2012, , .		7
32	Subsidy-Free Renewable Energy Trading: A Meta Agent Approach. IEEE Transactions on Sustainable Energy, 2020, 11, 1707-1716.	8.8	7
33	Server selection and admission control for IP-based video on demand using available bandwidth estimation. , 2011, , .		6
34	Frequency Selection Strategies Under Varying Moisture Levels in Wireless Nano-Networks. , 2014, , .		6
35	Controlling the transfer of Kinect data to a cloud-hosted games platform. , 2013, , .		5
36	Wind energy allocation strategies for long-term contracts in open energy markets. , 2016, , .		5

#	Article	IF	Citations
37	Domain Federation via MPLS and SDN for Dynamic, Real-time End-to-end QoS Support. , 2018, , .		5
38	Integrating THz Wireless Communication Links in a Data Centre Network. , 2019, , .		5
39	Active Techniques for Available Bandwidth Estimation: Comparison and Application. Lecture Notes in Computer Science, 2013, , 28-43.	1.3	5
40	MolComML. , 2016, , .		4
41	Ornstein-Uhlenbeck-LÃ©vy Electricity Portfolios with Wind Energy Contracting. Technology and Economics of Smart Grids and Sustainable Energy, 2018, 3, 1.	2.6	4
42	Monitoring within an Autonomic Network: A GANA Based Network Monitoring Framework. Lecture Notes in Computer Science, 2010, , 303-313.	1.3	4
43	A Deep Neural Network-Based Multi-Label Classifier for SLA Violation Prediction in a Latency Sensitive NFV Application. IEEE Open Journal of the Communications Society, 2021, 2, 2469-2493.	6.9	4
44	QoSPlan: A Measurement Based Quality of Service aware Network Planning Framework. Journal of Network and Systems Management, 2013, 21, 474-509.	4.9	3
45	Empirical Effective Bandwidth Estimation for IPTV Admission Control. Lecture Notes in Computer Science, 2007, , 125-137.	1.3	3
46	Intrinsic Monitoring within an IPv6 Network: Relating Traffic Flows to Network Paths. , 2010, , .		2
47	Revenue-maximizing server selection and admission control for IPTV content servers using available bandwidth estimates. , 2012, , .		2
48	Security Considerations for Intrinsic Monitoring within IPv6 Networks. Lecture Notes in Computer Science, 2009, , 167-172.	1.3	2
49	Intrinsic monitoring within an IPv6 network: mapping node information to network paths. , 2010, , .		1
50	CrEST: An effective capacity estimation tool for wireless networks. , 2013, , .		1
51	A Path-Loss Model Incorporating Shadowing for THz Band Propagation in Vegetation. , 2014, , .		1
52	A Network Coding Approach to In-Band Control Traffic Sharing in Software Defined Networks. , 2018, , .		1
53	An Internet of Things (IoT)-Based Coverage Monitoring for Mission Critical Regions. , 2019, , .		1
54	Impact of channel errors and data aggregation on throughput in THz communications. , 2019, , .		1

#	Article	IF	Citations
55	A Residual LSTM based Multi-Label Classification Framework for Proactive SLA Management in a Latency Critical NFV Application Use-Case. , 2022, , .		1
56	An approach to measurement based Quality of Service control for communications networks. , 2009, , .		0
57	IEEE Access Special Section Editorial: Software-Defined Networks for Energy Internet and Smart Grid Communication. IEEE Access, 2021, 9, 69139-69142.	4.2	0