

Dimitra Simeonidou

List of Publications by Year in descending order

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53
papers

1,112
citations

567281

15
h-index

454955

30
g-index

53
all docs

53
docs citations

53
times ranked

1061
citing authors

#	ARTICLE	IF	CITATIONS
1	Survey and Evaluation of Space Division Multiplexing: From Technologies to Optical Networks. IEEE Communications Surveys and Tutorials, 2015, 17, 2136-2156.	39.4	267
2	All-optical packet/circuit switching-based data center network for enhanced scalability, latency, and throughput. IEEE Network, 2013, 27, 14-22.	6.9	87
3	Wireless-Optical Network Convergence: Enabling the 5G Architecture to Support Operational and End-User Services. , 2017, 55, 184-192.		84
4	An analytical model for software defined networking: A network calculus-based approach. , 2013, , .		77
5	Secure NFV Orchestration Over an SDN-Controlled Optical Network With Time-Shared Quantum Key Distribution Resources. Journal of Lightwave Technology, 2017, 35, 1357-1362.	4.6	60
6	A Software-Defined IoT Device Management Framework for Edge and Cloud Computing. IEEE Internet of Things Journal, 2020, 7, 1718-1735.	8.7	44
7	End-to-End Performance-Based Autonomous VNF Placement With Adopted Reinforcement Learning. IEEE Transactions on Cognitive Communications and Networking, 2020, 6, 534-547.	7.9	44
8	Deploying a Novel 5G-Enabled Architecture on City Infrastructure for Ultra-High Definition and Immersive Media Production and Broadcasting. IEEE Transactions on Broadcasting, 2019, 65, 392-403.	3.2	36
9	End-to-End Quantum Secured Inter-Domain 5G Service Orchestration Over Dynamically Switched Flex-Grid Optical Networks Enabled by a q-ROADM. Journal of Lightwave Technology, 2020, 38, 139-149.	4.6	35
10	Dynamic Virtual Network Reconfiguration Over SDN Orchestrated Multitechnology Optical Transport Domains. Journal of Lightwave Technology, 2016, 34, 1933-1938.	4.6	31
11	Monitoring and Physical-Layer Attack Mitigation in SDN-Controlled Quantum Key Distribution Networks. Journal of Optical Communications and Networking, 2019, 11, A209.	4.8	28
12	Atomic-SDN: Is Synchronous Flooding the Solution to Software-Defined Networking in IoT?. IEEE Access, 2019, 7, 96019-96034.	4.2	25
13	11.2 Tb/s Classical Channel Coexistence With DV-QKD Over a 7-Core Multicore Fiber. Journal of Lightwave Technology, 2020, 38, 5064-5070.	4.6	24
14	ANN-Based Multi-Channel QoT-Prediction Over a 563.4-km Field-Trial Testbed. Journal of Lightwave Technology, 2020, 38, 2646-2655.	4.6	22
15	P4-enabled Smart NIC: Enabling Sliceable and Service-Driven Optical Data Centres. Journal of Lightwave Technology, 2020, 38, 2688-2694.	4.6	21
16	Multi-Objective Deep Reinforcement Learning Assisted Service Function Chains Placement. IEEE Transactions on Network and Service Management, 2021, 18, 4134-4150.	4.9	21
17	A Novel Autonomous Profiling Method for the Next-Generation NFV Orchestrators. IEEE Transactions on Network and Service Management, 2021, 18, 642-655.	4.9	16
18	Provisioning of 5G services employing machine learning techniques. , 2018, , .		13

#	ARTICLE	IF	CITATIONS
19	Deep Reinforcement Learning-Based Policy for Baseband Function Placement and Routing of RAN in 5G and Beyond. <i>Journal of Lightwave Technology</i> , 2022, 40, 470-480.	4.6	13
20	Techno-Economic Analysis of 5G Non-Public Network Architectures. <i>IEEE Access</i> , 2022, 10, 70204-70218.	4.2	12
21	Auto-3P: An autonomous VNF performance prediction & placement framework based on machine learning. <i>Computer Networks</i> , 2020, 181, 107433.	5.1	11
22	Optical Network Virtualisation Using Multitechnology Monitoring and SDN-Enabled Optical Transceiver. <i>Journal of Lightwave Technology</i> , 2018, 36, 1890-1898.	4.6	10
23	Validating a 5G-Enabled Neutral Host Framework in City-Wide Deployments. <i>Sensors</i> , 2021, 21, 8103.	3.8	9
24	Co-existence of 9.6 Tb/s Classical Channels and a Quantum Key Distribution (QKD) Channel over a 7-core Multicore Optical Fibre. , 2018, , .		8
25	Toward Deployments of ML Applications in Optical Networks. <i>IEEE Photonics Technology Letters</i> , 2021, 33, 537-540.	2.5	8
26	100 Gb/s dynamically programmable SDN-enabled hardware encryptor for optical networks. <i>Journal of Optical Communications and Networking</i> , 2022, 14, A50.	4.8	8
27	5GUK Exchange: Towards sustainable end-to-end multi-domain orchestration of softwarized 5G networks. <i>Computer Networks</i> , 2020, 178, 107297.	5.1	8
28	Towards Zero Downtime Edge Application Mobility for Ultra-Low Latency 5G Streaming. , 2020, , .		8
29	DV-QKD Coexistence With 1.6 Tbps Classical Channels Over Hollow Core Fibre. <i>Journal of Lightwave Technology</i> , 2022, 40, 5522-5529.	4.6	8
30	Resource Allocation for Ultra-Low Latency Virtual Network Services in Hierarchical 5G Network. , 2019, , .		7
31	Dynamic DV-QKD Networking in Trusted-Node-Free Software-Defined Optical Networks. <i>Journal of Lightwave Technology</i> , 2022, 40, 5816-5824.	4.6	7
32	DRL-Based Long-Term Resource Planning for Task Offloading Policies in Multiserver Edge Computing Networks. <i>IEEE Transactions on Network and Service Management</i> , 2022, 19, 4151-4164.	4.9	7
33	Scalable Service Chaining in MEC-Assisted 5G Networks. <i>Journal of Lightwave Technology</i> , 2019, 37, 4115-4124.	4.6	6
34	Intelligent Mobile Handover Prediction for Zero Downtime Edge Application Mobility. , 2021, , .		6
35	Compute Resource Disaggregation: An Enabler for Efficient 5G RAN Softwarisation. , 2018, , .		5
36	Optical network democratization. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016, 374, 20140443.	3.4	4

#	ARTICLE	IF	CITATIONS
37	Efficiency gains in 5G softwarised radio access networks. Eurasip Journal on Wireless Communications and Networking, 2019, 2019, .	2.4	4
38	The UK Programmable Fixed and Mobile Internet Infrastructure: Overview, Capabilities and Use Cases Deployment. IEEE Access, 2020, 8, 175398-175411.	4.2	4
39	Optimized placement of virtualized resources for 5G services exploiting live migration. Photonic Network Communications, 2020, 40, 233-244.	2.7	4
40	Distributed Online Resource Allocation Using Congestion Game for 5G Virtual Network Services. , 2019, , .		3
41	Converged Access/Metro Infrastructures for 5G services. , 2018, , .		3
42	Optical Network Architecture Supporting Dynamic and End-to-End Quantum Secure Networking. , 2021, , .		3
43	Synthesis, resiliency and power efficiency of function programmable optical nodes. , 2015, , .		2
44	Time Shared Optical Network (TSON): A Programmable Network Edge Solution for Multi-Access Support. Applied Sciences (Switzerland), 2019, 9, 4786.	2.5	2
45	Channel-Based RSA Approaches for QoS Protection of Slices Over Elastic Optical Networks. IEEE Access, 2022, 10, 20714-20726.	4.2	2
46	Scalable Monitoring and Optimization Techniques for Megascale Data Centers. Journal of Lightwave Technology, 2016, 34, 1980-1989.	4.6	1
47	Adaptive FH optimization in MEC-assisted 5G environments. Photonic Network Communications, 2020, 40, 209-220.	2.7	1
48	Joint Fronthaul Optimization and SDN Controller Placement in Dynamic 5G Networks. Lecture Notes in Computer Science, 2020, , 181-192.	1.3	1
49	Hybrid-learning-assisted impairments abstraction framework for service planning and provisioning over multi-domain optical networks. Journal of Optical Communications and Networking, 2021, 13, A165.	4.8	1
50	Towards Low-latent & Load-balanced VNF Placement with Hierarchical Reinforcement Learning. , 2021, , .		1
51	IEEE TCCN Special Section Editorial: Intelligent Resource Management for 5G and Beyond. IEEE Transactions on Cognitive Communications and Networking, 2020, 6, 422-427.	7.9	0
52	P4-Enabled Smart NIC for Intra-Server Network Virtualization Acceleration. , 2020, , .		0
53	Dynamic Softwarised RAN Function Placement in Optical Data Centre Networks. Lecture Notes in Computer Science, 2020, , 108-117.	1.3	0