

Marco Ruffini

List of Publications by Year in descending order

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45
papers

1,054
citations

623734

14
h-index

642732

23
g-index

47
all docs

47
docs citations

47
times ranked

972
citing authors

#	ARTICLE	IF	CITATIONS
1	Migration-Aware Network Services With Edge Computing. IEEE Transactions on Network and Service Management, 2022, 19, 1458-1471.	4.9	9
2	Trusted distributed marketplace for virtual passive optical network sharing. Journal of Optical Communications and Networking, 2022, 14, B22.	4.8	2
3	Cost analysis of rural roll-out using a long-reach passive optical network: trading off the upfront cost under uncertainty of the user take-up rate. Journal of Optical Communications and Networking, 2021, 13, 69.	4.8	9
4	Trustless Virtual PON Sharing for 5G Services. , 2021, , .		2
5	Real-Time QoT Estimation Through SDN Control Plane Monitoring Evaluated in Mininet-Optical. IEEE Photonics Technology Letters, 2021, 33, 1050-1053.	2.5	6
6	Learning Automata for Multi-Access Edge Computing Server Allocation with Minimal Service Migration. , 2020, , .		6
7	Virtual DBA: virtualizing passive optical networks to enable multi-service operation in true multi-tenant environments. Journal of Optical Communications and Networking, 2020, 12, B63.	4.8	31
8	A Silicon Photonic Switching Platform for Flexible Converged Centralized-Radio Access Networking. Journal of Lightwave Technology, 2020, 38, 5386-5392.	4.6	29
9	Sharing Distributed and Heterogeneous Resources toward End-to-End 5G Networks: A Comprehensive Survey and a Taxonomy. IEEE Communications Surveys and Tutorials, 2020, 22, 1592-1628.	39.4	37
10	Virtualized EASTâ€“WEST PON architecture supporting low-latency communication for mobile functional split based on multiaccess edge computing. Journal of Optical Communications and Networking, 2020, 12, D109.	4.8	15
11	Long-Reach Passive Optical Networks and Access/Metro Integration. Springer Handbooks, 2020, , 951-988.	0.6	2
12	3-Stage Hierarchical Quality of Service for Multi-tenant Passive Optical Networks. Lecture Notes in Computer Science, 2020, , 193-203.	1.3	0
13	A Performance Analysis of Supervised Learning Classifiers for QoT Estimation in ROADM-Based Networks. Lecture Notes in Computer Science, 2020, , 598-609.	1.3	0
14	Demonstration of Software-Defined Packet-Optical Network Emulation with Mininet-Optical and ONOS. , 2020, , .		11
15	Active Wavelength Load as a Feature for QoT Estimation Based on Support Vector Machine. , 2019, , .		8
16	A Variable Rate Fronthaul Scheme for Cloud Radio Access Networks. Journal of Lightwave Technology, 2019, 37, 3153-3165.	4.6	10
17	Evolution of Access Network Sharing and Its Role in 5G Networks. Applied Sciences (Switzerland), 2019, 9, 4566.	2.5	15
18	A Distributed Bilateral Resource Market Mechanism for Future Telecommunications Networks. , 2019, , .		14

#	ARTICLE	IF	CITATIONS
19	Connected OFCity Challenge: Addressing the Digital Divide in the Developing World. Journal of Optical Communications and Networking, 2019, 11, 354.	4.8	3
20	An Overview on Application of Machine Learning Techniques in Optical Networks. IEEE Communications Surveys and Tutorials, 2019, 21, 1383-1408.	39.4	374
21	Moving the Network to the Cloud: The Cloud Central Office Revolution and Its Implications for the Optical Layer. Journal of Lightwave Technology, 2019, 37, 1706-1716.	4.6	24
22	A Marketplace for Real-time Virtual PON Sharing. , 2018, , .		2
23	Experimental Demonstration of DPDK Optimised VNF Implementation of Virtual DBA in a Multi-Tenant PON. , 2018, , .		5
24	A Sharing Platform for Multi-Tenant PONs. Journal of Lightwave Technology, 2018, 36, 5413-5423.	4.6	19
25	Performance analysis of QoT estimator in SDN-controlled ROADM networks. , 2018, , .		6
26	Experimental Demonstration of SDN-controlled Variable-rate Fronthaul for Converged LTE-over-PON. , 2018, , .		11
27	Multidimensional Convergence in Future 5G Networks. Journal of Lightwave Technology, 2017, 35, 535-549.	4.6	63
28	SDN Enabled Dynamically Reconfigurable High Capacity Optical Access Architecture for Converged Services. Journal of Lightwave Technology, 2017, 35, 550-560.	4.6	30
29	Frame Level Sharing for DBA virtualization in multi-tenant PONs. , 2017, , .		7
30	Inter-operator dynamic capacity sharing for multi-tenant virtualized PON. , 2017, , .		1
31	Virtual Dynamic Bandwidth Allocation Enabling True PON Multi-Tenancy. , 2017, , .		27
32	Experimental End-to-End Demonstration of Shared N:M Dual-Homed Protection in SDN-Controlled Long-Reach PON and Pan-European Core. Journal of Lightwave Technology, 2016, 34, 4205-4213.	4.6	29
33	FLATLAND: A novel SDN-based Telecoms network architecture enabling NFV and metro-Access convergence. , 2016, , .		1
34	Hierarchical versus flat optical metro/core networks: A systematic cost and migration study. , 2016, , .		6
35	Nã~¶1 Protection Design for Minimizing OLTs in Resilient Dual-Homed Long-Reach Passive Optical Network. Journal of Optical Communications and Networking, 2016, 8, 93.	4.8	19
36	Evaluating Dynamic Bandwidth Allocation of Virtualized Passive Optical Networks Over Mobile Traffic Traces. Journal of Optical Communications and Networking, 2016, 8, 129.	4.8	16

#	ARTICLE	IF	CITATIONS
37	Th4B.1: Access-metro convergence in next generation broadband networks. , 2016, , .		8
38	Demonstration of SDN Enabled Dynamically Reconfigurable High Capacity Optical Access for Converged Services. , 2016, , .		6
39	Experimental End-to-End Demonstration of Shared N:1 Dual Homed Protection in Long Reach PON and SDN-Controlled Core. , 2015, , .		6
40	Performance Evaluation of a Hybrid Optical/Electrical Interconnect. Journal of Optical Communications and Networking, 2015, 7, 193.	4.8	24
41	Backhauling mobile systems with XG-PON using grouped assured bandwidth. , 2014, , .		21
42	DISCUS: an end-to-end solution for ubiquitous broadband optical access. , 2014, 52, S24-S32.		77
43	N:1 Protection Design for Minimising OLTs in Resilient Dual-Homed Long-Reach Passive Optical Network. , 2014, , .		5
44	Tailoring the network to the problem: topology configuration in hybrid electronic packet switched/optical circuit switched interconnects. Concurrency Computation Practice and Experience, 2013, 25, 2412-2432.	2.2	3
45	Deployment Strategies for Protected Long-Reach PON. Journal of Optical Communications and Networking, 2012, 4, 118.	4.8	54