

Francesco Musumeci

List of Publications by Year in descending order

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96
papers

1,952
citations

567281

15
h-index

361022

35
g-index

96
all docs

96
docs citations

96
times ranked

1735
citing authors

#	ARTICLE	IF	CITATIONS
1	An Overview on Application of Machine Learning Techniques in Optical Networks. IEEE Communications Surveys and Tutorials, 2019, 21, 1383-1408.	39.4	374
2	The European Registry for Patients with Mechanical Circulatory Support (EUROMACS) of the European Association for Cardio-Thoracic Surgery (EACTS): second report. European Journal of Cardio-thoracic Surgery, 2018, 53, 309-316.	1.4	121
3	Optimal BBU Placement for 5G C-RAN Deployment Over WDM Aggregation Networks. Journal of Lightwave Technology, 2016, 34, 1963-1970.	4.6	119
4	A Tutorial on Machine Learning for Failure Management in Optical Networks. Journal of Lightwave Technology, 2019, 37, 4125-4139.	4.6	83
5	Virtual Network Function placement for resilient Service Chain provisioning. , 2016, , .		72
6	Machine-Learning-Based Soft-Failure Detection and Identification in Optical Networks. , 2018, , .		71
7	A Power Consumption Analysis for IP-Over-WDM Core Network Architectures. Journal of Optical Communications and Networking, 2012, 4, 108.	4.8	70
8	Network Traffic Prediction based on Diffusion Convolutional Recurrent Neural Networks. , 2019, , .		56
9	Machine Learning-Based Routing and Wavelength Assignment in Software-Defined Optical Networks. IEEE Transactions on Network and Service Management, 2019, 16, 871-883.	4.9	49
10	Machine-learning-assisted DDoS attack detection with P4 language. , 2020, , .		41
11	Virtual-network-function placement for dynamic service chaining in metro-area networks. , 2018, , .		40
12	Traffic and power-aware protection scheme in Elastic Optical Networks. , 2012, , .		36
13	Isolation-Aware 5G RAN Slice Mapping Over WDM Metro-Aggregation Networks. Journal of Lightwave Technology, 2020, 38, 1125-1137.	4.6	36
14	Protection in optical transport networks with fixed and flexible grid: Cost and energy efficiency evaluation. Optical Switching and Networking, 2014, 11, 55-71.	2.0	35
15	Protection strategies for virtual network functions placement and service chains provisioning. Networks, 2017, 70, 373-387.	2.7	33
16	Machine-Learning-Enabled DDoS Attacks Detection in P4 Programmable Networks. Journal of Network and Systems Management, 2022, 30, 1.	4.9	32
17	Multiplexing Gain and Processing Savings of 5G Radio-Access-Network Functional Splits. IEEE Transactions on Green Communications and Networking, 2018, 2, 982-991.	5.5	30
18	TREND in energy-aware adaptive routing solutions. , 2013, 51, 94-104.		24

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19	Energy-efficiency of protected IP-over-WDM networks with sleep-mode devices. Journal of High Speed Networks, 2013, 19, 19-32.	0.8	22
20	Machine-Learning-Assisted Routing in SDN-Based Optical Networks. , 2018, , .		20
21	Energy-Efficient Video-On-Demand Content Caching and Distribution in Metro Area Networks. IEEE Transactions on Green Communications and Networking, 2019, 3, 159-169.	5.5	20
22	Elastic operations in federated datacenters for performance and cost optimization. Computer Communications, 2014, 50, 142-151.	5.1	19
23	The European Registry for Patients with Mechanical Circulatory Support of the European Association for Cardio-Thoracic Surgery: third report. European Journal of Cardio-thoracic Surgery, 2022, 62, .	1.4	18
24	A survey on network resiliency methodologies against weather-based disruptions. , 2016, , .		17
25	Tutorial on filterless optical networks [Invited]. Journal of Optical Communications and Networking, 2022, 14, 1.	4.8	17
26	On the Energy Efficiency of Optical Transport with Time Driven Switching. , 2011, , .		16
27	Energy efficient content distribution in an ISP network. , 2013, , .		16
28	Survivable virtual network mapping to provide content connectivity against double-link failures. , 2016, , .		15
29	Filterless and Semi-Filterless Solutions in a Metro-HAUL Network Architecture. , 2018, , .		15
30	On the energy efficiency of IP-over-WDM networks. , 2010, , .		14
31	Energy-efficient resilient optical networks: Challenges and trade-offs. , 2015, 53, 144-150.		14
32	Is Machine Learning Suitable for Solving RWA Problems in Optical Networks?. , 2018, , .		14
33	Latency-Aware CU Placement/Handover in Dynamic WDM Access-Aggregation Networks. Journal of Optical Communications and Networking, 2019, 11, B71.	4.8	14
34	QoT-Aware Optical Amplifier Placement in Filterless Metro Networks. IEEE Communications Letters, 2021, 25, 931-935.	4.1	14
35	On Deep Reinforcement Learning for Static Routing and Wavelength Assignment. IEEE Journal of Selected Topics in Quantum Electronics, 2022, 28, 1-12.	2.9	14
36	A power consumption sensitivity analysis of circuit-switched versus packet-switched backbone networks. Computer Networks, 2015, 78, 42-56.	5.1	13

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37	Efficient Routing and Bandwidth Assignment for Inter-Data-Center Live Virtual-Machine Migrations. Journal of Optical Communications and Networking, 2017, 9, B12.	4.8	13
38	Resilient BBU placement in 5G C-RAN over optical aggregation networks. Photonic Network Communications, 2019, 37, 388-398.	2.7	13
39	Enhancing RAN Throughput by Optimized CoMP Controller Placement in Optical Metro Networks. IEEE Journal on Selected Areas in Communications, 2018, 36, 2561-2569.	14.0	12
40	DU/CU Placement for C-RAN over Optical Metro-Aggregation Networks. Lecture Notes in Computer Science, 2020, , 82-93.	1.3	12
41	Latency- and capacity-aware placement of chained Virtual Network Functions in FMC metro networks. Optical Switching and Networking, 2020, 35, 100536.	2.0	11
42	Survivable Virtual Network Mapping in Filterless Optical Networks. , 2020, , .		11
43	Minimum-Cost Optical Amplifier Placement in Metro Networks. Journal of Lightwave Technology, 2020, 38, 3221-3228.	4.6	11
44	Dynamic Placement of BaseBand Processing in 5G WDM-based Aggregation Networks. , 2017, , .		11
45	Domain adaptation and transfer learning for failure detection and failure-cause identification in optical networks across different lightpaths [Invited]. Journal of Optical Communications and Networking, 2022, 14, A91.	4.8	11
46	Quantifying Resource Savings from Low-Margin Design in Optical Networks with Probabilistic Constellation Shaping. , 2021, , .		11
47	Energy-efficient caching for Video-on-Demand in Fixed-Mobile Convergent networks. , 2015, , .		10
48	Power-aware design of protected IP-over-WDM Networks with sleep-mode devices. , 2012, , .		9
49	Latency-Aware Traffic Grooming for Dynamic Service Chaining in Metro Networks. , 2019, , .		9
50	On Dynamic Service Chaining in Filterless Optical Metro-Aggregation Networks. IEEE Access, 2020, 8, 222233-222241.	4.2	9
51	Supervised and Semi-Supervised Learning for Failure Identification in Microwave Networks. IEEE Transactions on Network and Service Management, 2021, 18, 1934-1945.	4.9	9
52	Dynamic 5G RAN slice adjustment and migration based on traffic prediction in WDM metro-aggregation networks. Journal of Optical Communications and Networking, 2020, 12, 403.	4.8	9
53	Survivable Virtual Network Mapping With Fiber Tree Establishment in Filterless Optical Networks. IEEE Transactions on Network and Service Management, 2022, 19, 37-48.	4.9	8
54	Transfer Learning across Different Lightpaths for Failure-Cause Identification in Optical Networks. , 2020, , .		8

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55	Power consumption evaluation of circuit-switched versus packet-switched optical backbone networks. , 2013, , .		7
56	TREND big picture on energy-efficient backbone networks. , 2013, , .		7
57	Traffic-Adaptive Re-Configuration of Programmable Filterless Optical Networks. , 2020, , .		7
58	Online Virtual Machine Evacuation for Disaster Resilience in Inter-Data Center Networks. IEEE Transactions on Network and Service Management, 2021, 18, 1990-2001.	4.9	7
59	Strategies for Dedicated Path Protection in Filterless Optical Networks. , 2021, , .		7
60	If Not Here, There. Explaining Machine Learning Models for Fault Localization in Optical Networks. , 2022, , .		7
61	Dynamic grooming and spectrum allocation in optical metro ring networks with flexible grid. , 2013, , .		6
62	Benefits of elastic spectrum allocation in optical networks with dynamic traffic. , 2014, , .		6
63	C-RAN baseband pooling: Cost model and multiplexing gain analysis. , 2017, , .		6
64	Techno-Economic Evaluation of CDN Deployments in Metropolitan Area Networks. , 2017, , .		6
65	Optical Metro Network Design with Low Cost of Equipment. , 2021, , .		6
66	Cascading-failure-resilient interconnection for interdependent power grid - Optical network. Optical Switching and Networking, 2021, 42, 100632.	2.0	6
67	Progressive Slice Recovery With Guaranteed Slice Connectivity After Massive Failures. IEEE/ACM Transactions on Networking, 2022, 30, 826-839.	3.8	6
68	Survivable BBU Placement for C-RAN over Optical Aggregation Networks. , 2018, , .		5
69	Efficient Online Virtual Machines Migration for Alert-Based Disaster Resilience. , 2019, , .		5
70	Dynamic DU/CU Placement for 3-layer C-RANs in Optical Metro-Access Networks. , 2020, , .		5
71	Virtual Network Mapping vs Embedding with Link Protection in Filterless Optical Networks. , 2020, , .		5
72	Energy-efficiency of all-optical transport through time-driven switching. IET Optoelectronics, 2012, 6, 173.	3.3	4

#	ARTICLE	IF	CITATIONS
73	Energy efficiency in reliable optical core networks. , 2015, , .		4
74	Benefits of Elastic Spectrum Allocation in Optical Networks with Dynamic Traffic. IEEE Latin America Transactions, 2015, 13, 3642-3648.	1.6	4
75	Power reduction strategies with differentiated quality of protection in IP-over-WDM networks. Annales Des Telecommunications/Annals of Telecommunications, 2018, 73, 81-94.	2.5	4
76	Wavelength-Aware Translucent Network Design. , 2011, , .		4
77	On the energy consumption of IP-over-WDM architectures. , 2012, , .		3
78	A Techno-Economic Evaluation of VNF Placement Strategies in Optical Metro Networks. , 2019, , .		3
79	Reliable Control and Data Planes for Softwarized Networks. Computer Communications and Networks, 2020, , 243-270.	0.8	3
80	On the Energy Efficiency of IP-over-WDM Networks. IEEE Latin America Transactions, 2011, 9, 477-483.	1.6	2
81	The role of network topology on the energy efficiency of IP-over-WDM architectures. , 2012, , .		2
82	Blocking analysis for green WDM networks with transponder power management. , 2013, , .		2
83	Enhancing RAN throughput by optimized controller placement in optical metro networks. , 2017, , .		2
84	Optimal Cache Deployment for Video-on-Demand Delivery in Optical Metro-Area Networks. , 2018, , .		2
85	On the Placement of BBU Hotels in an Optical Access/Aggregation Network for 5G Transport. , 2015, , .		2
86	Handling Priorities in Optical Buffers. IEEE Transactions on Communications, 2012, 60, 2784-2788.	7.8	1
87	A Blocking Analysis for Green WDM Networks With Transponder Power Management. Journal of Lightwave Technology, 2014, 32, 4261-4271.	4.6	1
88	Dynamic Routing and Bandwidth Assignment for live Virtual Machines migrations. , 2016, , .		1
89	Caching Placement Strategies for Dynamic Content Delivery in Metro Area Networks. , 2018, , .		1
90	Reprovisioning for latency-aware dynamic service chaining in metro networks. Journal of Optical Communications and Networking, 2020, 12, 355.	4.8	1

#	ARTICLE	IF	CITATIONS
91	Survivable Virtual Network Mapping against Double-Link Failures Based on Virtual Network Capacity Sharing. , 2021, , .		1
92	Strategies for effective converged control of LTE and Wi-Fi networks. , 2016, , .		0
93	Introduction to PNET special issue on "Resilience in future 5G photonic networks". Photonic Network Communications, 2019, 37, 263-264.	2.7	0
94	Optimal Cache Deployment for Video-On-Demand in Optical Metro Edge Nodes under Limited Storage Capacity. Applied Sciences (Switzerland), 2020, 10, 1984.	2.5	0
95	Resilient NFV Technology and Solutions. Computer Communications and Networks, 2020, , 675-697.	0.8	0
96	Service Chaining in Filterless Optical Metro-Aggregation Networks (Invited Paper). , 2021, , .		0