Massimo Tornatore

List of Publications by Year
in descending order

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391	7,830	87888	95266
papers	citations	38 h-index	68 g-index

391	391	391	4067
all docs	docs citations	times ranked	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	Energy Efficiency in Telecom Optical Networks. IEEE Communications Surveys and Tutorials, 2010, 12, 441-458.	39.4	300
3	Optical Network Design With Mixed Line Rates and Multiple Modulation Formats. Journal of Lightwave Technology, 2010, 28, 466-475.	4.6	230
4	Building a Green Wireless-Optical Broadband Access Network (WOBAN). Journal of Lightwave Technology, 2010, 28, 2219-2229.	4.6	190
5	Design of Disaster-Resilient Optical Datacenter Networks. Journal of Lightwave Technology, 2012, 30, 2563-2573.	4.6	157
6	Machine-Learning Method for Quality of Transmission Prediction of Unestablished Lightpaths. Journal of Optical Communications and Networking, 2018, 10, A286.	4.8	150
7	Disaster survivability in optical communication networks. Computer Communications, 2013, 36, 630-644.	5.1	138
8	Survivable Traffic Grooming in Elastic Optical Networksâ€"Shared Protection. Journal of Lightwave Technology, 2013, 31, 903-909.	4.6	130
9	Intelligent Reflecting Surface Assisted Anti-Jamming Communications: A Fast Reinforcement Learning Approach. IEEE Transactions on Wireless Communications, 2021, 20, 1963-1974.	9.2	124
10	Optimal BBU Placement for 5G C-RAN Deployment Over WDM Aggregation Networks. Journal of Lightwave Technology, 2016, 34, 1963-1970.	4.6	119
11	Minimizing the Risk From Disaster Failures in Optical Backbone Networks. Journal of Lightwave Technology, 2014, 32, 3175-3183.	4.6	118
12	A Survey on Resiliency Techniques in Cloud Computing Infrastructures and Applications. IEEE Communications Surveys and Tutorials, 2016, 18, 2244-2281.	39.4	110
13	Resource Allocation in Optical Networks Secured by Quantum Key Distribution. IEEE Communications Magazine, 2018, 56, 130-137.	6.1	103
14	5G Fronthaulâ€"Latency and Jitter Studies of CPRI Over Ethernet. Journal of Optical Communications and Networking, 2017, 9, 172.	4.8	99
15	A survey of strategies for communication networks to protect against large-scale natural disasters. , 2016, , .		90
16	Energy-Efficient Virtual Base Station Formation in Optical-Access-Enabled Cloud-RAN. IEEE Journal on Selected Areas in Communications, 2016, 34, 1130-1139.	14.0	85
17	A Tutorial on Machine Learning for Failure Management in Optical Networks. Journal of Lightwave Technology, 2019, 37, 4125-4139.	4.6	83
18	Availability design of optical transport networks. IEEE Journal on Selected Areas in Communications, 2005, 23, 1520-1532.	14.0	81

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19	On the Design of Energy-Efficient Mixed-Line-Rate (MLR) Optical Networks. Journal of Lightwave Technology, 2012, 30, 130-139.	4.6	73
20	Demand-Aware Network Function Placement. Journal of Lightwave Technology, 2016, 34, 2590-2600.	4.6	73
21	Virtual Network Function placement for resilient Service Chain provisioning. , 2016, , .		72
22	Machine-Learning-Based Soft-Failure Detection and Identification in Optical Networks. , 2018, , .		71
23	A Power Consumption Analysis for IP-Over-WDM Core Network Architectures. Journal of Optical Communications and Networking, 2012, 4, 108.	4.8	70
24	Green Provisioning for Optical WDM Networks. IEEE Journal of Selected Topics in Quantum Electronics, 2011, 17, 437-445.	2.9	68
25	Impact of processing costs on service chain placement in network functions virtualization. , 2015, , .		65
26	Disaster-Aware Datacenter Placement and Dynamic Content Management in Cloud Networks. Journal of Optical Communications and Networking, 2015, 7, 681.	4.8	65
27	Flexible Availability-Aware Differentiated Protection in Software-Defined Elastic Optical Networks. Journal of Lightwave Technology, 2015, 33, 3872-3882.	4.6	63
28	Greening the cloud using renewable-energy-aware service migration. IEEE Network, 2013, 27, 36-43.	6.9	62
29	QoT Estimation for Unestablished Lighpaths using Machine Learning. , 2017, , .		62
30	Edge Computing and Networking: A Survey on Infrastructures and Applications. IEEE Access, 2019, 7, 101213-101230.	4.2	58
31	Network Traffic Prediction based on Diffusion Convolutional Recurrent Neural Networks. , 2019, , .		56
32	PHOTO: an efficient shared-path-protection strategy based on connection-holding-time awareness. Journal of Lightwave Technology, 2005, 23, 3138-3146.	4.6	55
33	Auto-Scaling VNFs Using Machine Learning to Improve QoS and Reduce Cost. , 2018, , .		53
34	A Scalable Approach for Service Chain Mapping With Multiple SC Instances in a Wide-Area Network. IEEE Journal on Selected Areas in Communications, 2018, 36, 529-541.	14.0	49
35	Optical network design with mixed line rates. Optical Switching and Networking, 2009, 6, 227-234.	2.0	48
36	Energy-Efficient Baseband Unit Placement in a Fixed/Mobile Converged WDM Aggregation Network. IEEE Journal on Selected Areas in Communications, 2014, 32, 1542-1551.	14.0	48

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37	Migration from fixed grid to flexible grid in optical networks. , 2015, 53, 34-43.		48
38	Greening the Optical Backbone Network: A Traffic Engineering Approach. , 2010, , .		47
39	Virtualized Cloud Radio Access Network for 5G Transport. , 2017, 55, 202-209.		46
40	Routing, Modulation Format, Baud Rate and Spectrum Allocation in Optical Metro Rings With Flexible Grid and Few-Mode Transmission. Journal of Lightwave Technology, 2017, 35, 61-70.	4.6	46
41	Cost-Efficient VNF Placement and Scheduling in Public Cloud Networks. IEEE Transactions on Communications, 2020, 68, 4946-4959.	7.8	46
42	Energy optimization in IP-over-WDM networks. Optical Switching and Networking, 2011, 8, 171-180.	2.0	45
43	Energy efficient Traffic-Aware design of onâ€“off Multi-Layer translucent optical networks. Computer Networks, 2012, 56, 2443-2455.	5.1	44
44	A Multi-Threaded Dynamic Bandwidth and Wavelength Allocation Scheme With Void Filling for Long Reach WDM/TDM PONs. Journal of Lightwave Technology, 2013, 31, 1149-1157.	4.6	43
45	Dynamic Bandwidth and Wavelength Allocation Scheme for Next-Generation Wavelength-Agile EPON. Journal of Optical Communications and Networking, 2017, 9, B33.	4.8	43
46	On service-chaining strategies using Virtual Network Functions in operator networks. Computer Networks, 2018, 133, 1-16.	5.1	41
47	Machine-learning-assisted DDoS attack detection with P4 language. , 2020, , .		41
48	Virtual-network-function placement for dynamic service chaining in metro-area networks. , 2018, , .		40
49	Provisioning of Deadline-Driven Requests With Flexible Transmission Rates in WDM Mesh Networks. IEEE/ACM Transactions on Networking, 2010, 18, 353-366.	3.8	39
50	Optical ring metro networks with flexible Grid and distance-adaptive optical coherent transceivers. Bell Labs Technical Journal, 2013, 18, 95-110.	0.7	39
51	WDM Network Design by ILP Models Based on Flow Aggregation. IEEE/ACM Transactions on Networking, 2007, 15, 709-720.	3.8	38
52	Holding-Time-Aware Dynamic Traffic Grooming. IEEE Journal on Selected Areas in Communications, 2008, 26, 28-35.	14.0	38
53	Fault-Tolerant Virtual Network Mapping to Provide Content Connectivity in Optical Networks. , 2013, , .		37
54	Routing, Modulation Level, and Spectrum Assignment in Optical Metro Ring Networks Using Elastic Transceivers. Journal of Optical Communications and Networking, 2013, 5, 305.	4.8	37

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55	Network adaptability to disaster disruptions by exploiting degraded-service tolerance. , 2014, 52, 58-65.		37
56	Green Data Center Placement in Optical Cloud Networks. IEEE Transactions on Green Communications and Networking, 2017, 1, 347-357.	5.5	37
57	Traffic and power-aware protection scheme in Elastic Optical Networks. , 2012, , .		36
58	Evolving Traffic Grooming in Multi-Layer Flexible-Grid Optical Networks With Software-Defined Elasticity. Journal of Lightwave Technology, 2014, 32, 2905-2914.	4.6	36
59	Isolation-Aware 5G RAN Slice Mapping Over WDM Metro-Aggregation Networks. Journal of Lightwave Technology, 2020, 38, 1125-1137.	4.6	36
60	Machine learning regression for QoT estimation of unestablished lightpaths. Journal of Optical Communications and Networking, 2021, 13, B92.	4.8	36
61	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
62	Integrated Provisioning of Sliding Scheduled Services Over WDM Optical Networks [Invited]. Journal of Optical Communications and Networking, 2009, 1, A94.	4.8	34
63	Scheduling with Machine-Learning-Based Flow Detection for Packet-Switched Optical Data Center Networks. Journal of Optical Communications and Networking, 2018, 10, 365.	4.8	34
64	Dynamic routing, spectrum, and modulation-format allocation in mixed-grid optical networks. Journal of Optical Communications and Networking, 2020, 12, 79.	4.8	34
65	Rapid Data Evacuation for Large-Scale Disasters in Optical Cloud Networks [Invited]. Journal of Optical Communications and Networking, 2015, 7, B163.	4.8	33
66	Protection strategies for virtual network functions placement and service chains provisioning. Networks, 2017, 70, 373-387.	2.7	33
67	Risk-Aware Provisioning for Optical WDM Mesh Networks. IEEE/ACM Transactions on Networking, 2011, 19, 921-931.	3.8	32
68	Virtual machine placement and workload assignment for mobile edge computing. , 2017, , .		32
69	Machine-Learning-Enabled DDoS Attacks Detection in P4 Programmable Networks. Journal of Network and Systems Management, 2022, 30, 1.	4.9	32
70	New Strategies for Connection Protection in Mixed-Line-Rate Optical WDM Networks. Journal of Optical Communications and Networking, 2011, 3, 641.	4.8	30
71	Cloud-over-WOBAN (CoW): An Offloading-Enabled Access Network Design. , 2011, , .		30
72	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

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73	Reliable Slicing of 5G Transport Networks With Bandwidth Squeezing and Multi-Path Provisioning. IEEE Transactions on Network and Service Management, 2020, 17, 1418-1431.	4.9	30
74	Shared-Path Protection With Delay Tolerance (SDT) in Optical WDM Mesh Networks. Journal of Lightwave Technology, 2010, 28, 2068-2076.	4.6	29
75	On the Complexity of Routing and Spectrum Assignment in Flexible-Grid Ring Networks [Invited]. Journal of Optical Communications and Networking, 2015, 7, A256.	4.8	29
76	Handover Reduction in Virtualized Cloud Radio Access Networks Using TWDM-PON Fronthaul. Journal of Optical Communications and Networking, 2016, 8, B124.	4.8	29
77	Energy Efficiency and Blocking Reduction for Tidal Traffic via Stateful Grooming in IP-Over-Optical Networks. Journal of Optical Communications and Networking, 2016, 8, 175.	4.8	29
78	Dynamic Workload Migration Over Backbone Network to Minimize Data Center Electricity Cost. IEEE Transactions on Green Communications and Networking, 2018, 2, 570-579.	5.5	29
79	Impact of Processing-Resource Sharing on the Placement of Chained Virtual Network Functions. IEEE Transactions on Cloud Computing, 2021, 9, 1479-1492.	4.4	29
80	Reducing probes for quality of transmission estimation in optical networks with active learning. Journal of Optical Communications and Networking, 2020, 12, A38.	4.8	29
81	Fragmentation metrics and fragmentation-aware algorithm for spectrally/spatially flexible optical networks. Journal of Optical Communications and Networking, 2020, 12, 133.	4.8	29
82	WDM network optimization by ILP based on source formulation. , 0, , .		28
83	On the Energy Efficiency of Mixed-Line-Rate Networks. , 2010, , .		28
84	Low-carbon routing algorithms for cloud computing services in IP-over-WDM networks. , 2012, , .		28
85	Spatial Division Multiplexing for High Capacity Optical Interconnects in Modular Data Centers. Journal of Optical Communications and Networking, 2017, 9, A143.	4.8	27
86	Routing and Spectrum Assignment Integrating Machine-Learning-Based QoT Estimation in Elastic Optical Networks. , 2019, , .		27
87	Comparison of domain adaptation and active learning techniques for quality of transmission estimation with small-sized training datasets [Invited]. Journal of Optical Communications and Networking, 2021, 13, A56.	4.8	27
88	Survivable Multipath Routing of Anycast and Unicast Traffic in Elastic Optical Networks. Journal of Optical Communications and Networking, 2016, 8, 343.	4.8	26
89	Low-Emissions Routing for Cloud Computing in IP-over-WDM Networks with Data Centers. IEEE Journal on Selected Areas in Communications, 2014, 32, 28-38.	14.0	25
90	Bandwidth Provisioning for Virtual Machine Migration in Cloud: Strategy and Application. IEEE Transactions on Cloud Computing, 2018, 6, 967-976.	4.4	25

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91	Low-Latency and Energy-Efficient BBU Placement and VPON Formation in Virtualized Cloud-Fog RAN. Journal of Optical Communications and Networking, 2019, 11, B37.	4.8	25
92	Efficient shared-path protection exploiting the knowledge of connection-holding time. , 0, , .		24
93	Disaster-resilient control plane design and mapping in software-defined networks. , 2015, , .		24
94	Achieving a Fully-Flexible Virtual Network Embedding in Elastic Optical Networks. , 2019, , .		24
95	Crosstalk-Aware Core and Spectrum Assignment in a Multicore Optical Link With Flexible Grid. IEEE Transactions on Communications, 2019, 67, 2144-2156.	7.8	24
96	Disaster-survivable cloud-network mapping. Photonic Network Communications, 2014, 27, 141-153.	2.7	23
97	Optimization of long-reach TDM/WDM passive optical networks. Optical Switching and Networking, 2015, 16, 36-45.	2.0	23
98	Transparent optical network design with mixed line rates. , 2008, , .		22
99	Energy-Efficient and Cost-Efficient Capacity Upgrade in Mixed-Line-Rate Optical Networks. Journal of Optical Communications and Networking, 2012, 4, 1018.	4.8	22
100	Energy-efficiency of protected IP-over-WDM networks with sleep-mode devices. Journal of High Speed Networks, 2013, 19, 19-32.	0.8	22
101	Disaster-aware service provisioning with manycasting in cloud networks. Photonic Network Communications, 2014, 28, 123-134.	2.7	21
102	Degraded Service Provisioning in Mixed-Line-Rate WDM Backbone Networks Using Multipath Routing. IEEE/ACM Transactions on Networking, 2014, 22, 840-849.	3.8	21
103	RASCAR: Recovery-Aware Switch-Controller Assignment and Routing in SDN. IEEE Transactions on Network and Service Management, 2018, 15, 1222-1234.	4.9	21
104	Optimal Network Function Virtualization Realizing End-to-End Requests. , 2015, , .		20
105	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
106	Service-Centric Provisioning in WDM Backbone Networks for the Future Internet. Journal of Lightwave Technology, 2009, 27, 1856-1865.	4.6	19
107	Progressive network recovery in optical core networks. , 2015, , .		19
108	Towards Green Broadband Access Networks. , 2009, , .		17

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109	Dynamic Scheduling of Survivable Connections with Delay Tolerance in WDM Networks. , 2009, , .		17
110	Exploiting Excess Capacity to Improve Robustness of WDM Mesh Networks. IEEE/ACM Transactions on Networking, 2012, 20, 114-124.	3.8	17
111	Heterogeneous Bandwidth Provisioning for Virtual Machine Migration over SDN-Enabled Optical Networks. , 2014, , .		17
112	Cloud-Integrated WOBAN: An offloading-enabled architecture for service-oriented access networks. Computer Networks, 2014, 68, 5-19.	5.1	17
113	On service chaining using Virtual Network Functions in Network-enabled Cloud systems. , 2015, , .		17
114	A survey on network resiliency methodologies against weather-based disruptions. , 2016, , .		17
115	Latency and energy-aware provisioning of network slices in cloud networks. Computer Communications, 2020, 157, 1-19.	5.1	17
116	C+L-band upgrade strategies to sustain traffic growth in optical backbone networks. Journal of Optical Communications and Networking, 2021, 13, 193.	4.8	17
117	Tutorial on filterless optical networks [Invited]. Journal of Optical Communications and Networking, 2022, 14, 1.	4.8	17
118	Green Provisioning of Cloud Services over Wireless-Optical Broadband Access Networks. , 2011, , .		16
119	On the Energy Efficiency of Optical Transport with Time Driven Switching. , 2011, , .		16
120	Energy-Efficient Dynamic Lightpath Adjustment in a Decomposed AWGR-Based Passive WDM Fronthaul. Journal of Optical Communications and Networking, 2018, 10, 749.	4.8	16
121	Survivable virtual network mapping with content connectivity against multiple link failures in optical metro networks. Journal of Optical Communications and Networking, 2020, 12, 301.	4.8	16
122	A Privacy-Preserving Reinforcement Learning Algorithm for Multi-Domain Virtual Network Embedding. IEEE Transactions on Network and Service Management, 2020, 17, 2291-2304.	4.9	16
123	Joint Progressive Network and Datacenter Recovery After Large-Scale Disasters. IEEE Transactions on Network and Service Management, 2020, 17, 1501-1514.	4.9	16
124	Disaster resilience of optical networks: State of the art, challenges, and opportunities. Optical Switching and Networking, 2021, 42, 100619.	2.0	16
125	Capacity versus availability trade-offs for availability-based routing. Journal of Optical Networking, 2006, 5, 858.	2.5	15
126	Optimizing the Migration to Future-Generation Passive Optical Networks (PON). IEEE Systems Journal, 2010, 4, 413-423.	4.6	15

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127	Multilayer Protection with Availability Guarantees in Optical WDM Networks. Journal of Network and Systems Management, 2012, 20, 34-55.	4.9	15
128	Using replicated video servers for VoD traffic offloading in integrated metro/access networks. , 2014, , .		15
129	BBU placement over a WDM aggregation network considering OTN and overlay fronthaul transport. , 2015, , .		15
130	Global Versus Essential Post-Disaster Re-Provisioning in Telecom Mesh Networks. Journal of Optical Communications and Networking, 2015, 7, 392.	4.8	15
131	Survivable virtual network mapping to provide content connectivity against double-link failures. , 2016, , .		15
132	Filterless and Semi-Filterless Solutions in a Metro-HAUL Network Architecture. , 2018, , .		15
133	Auto-Scaling Network Service Chains Using Machine Learning and Negotiation Game. IEEE Transactions on Network and Service Management, 2020, 17, 1322-1336.	4.9	15
134	On the energy efficiency of IP-over-WDM networks. , 2010, , .		14
135	Joint Allocation of Radio and Optical Resources in Virtualized Cloud RAN with CoMP. , 2016, , .		14
136	Backup reprovisioning with partial protection for disaster-survivable software-defined optical networks. Photonic Network Communications, 2016, 31, 186-195.	2.7	14
137	Optimal Placement of Virtualized BBU Processing in Hybrid Cloud-Fog RAN over TWDM-PON. , 2017, , .		14
138	Latency-Aware CU Placement/Handover in Dynamic WDM Access-Aggregation Networks. Journal of Optical Communications and Networking, 2019, 11, B71.	4.8	14
139	QoT-Aware Optical Amplifier Placement in Filterless Metro Networks. IEEE Communications Letters, 2021, 25, 931-935.	4.1	14
140	Fundamentals of Communication Networks Resilience to Disasters and Massive Disruptions. Computer Communications and Networks, 2020, , 1-43.	0.8	14
141	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
142	Holding-time-aware and availability-guaranteed connection provisioning in optical WDM mesh networks. , 2007, , .		13
143	A Novel SLA Framework for Time-Differentiated Resilience in Optical Mesh Networks. Journal of Optical Communications and Networking, 2011, 3, 312.	4.8	13
144	Reach-Related Energy Consumption in IP-Over-WDM 100G Translucent Networks. Journal of Lightwave Technology, 2013, 31, 1828-1834.	4.6	13

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145	Cost models for BaseBand Unit (BBU) hotelling: From local to cloud. , 2015, , .		13
146	To distribute or not to distribute? Impact of latency on Virtual Network Function distribution at the edge of FMC networks. , 2016, , .		13
147	Resilient cloud network mapping with virtualized BBU placement for cloud-RAN. , 2016, , .		13
148	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
149	Provisioning Short-Term Traffic Fluctuations in Elastic Optical Networks. IEEE/ACM Transactions on Networking, 2019, 27, 1460-1473.	3.8	13
150	Virtual Network Embedding with Path-based Latency Guarantees in Elastic Optical Networks. , 2019, , .		13
151	Resilient BBU placement in 5G C-RAN over optical aggregation networks. Photonic Network Communications, 2019, 37, 388-398.	2.7	13
152	Active vs Transfer Learning Approaches for QoT Estimation with Small Training Datasets. , 2020, , .		13
153	Effects of Outdated Control Information in Control-Plane-Enabled Optical Networks With Path Protection. Journal of Optical Communications and Networking, 2009, 1, A194.	4.8	12
154	Transparent vs. Translucent Optical Network Design with Mixed Line Rates. , 2009, , .		12
155	Cost-efficient design for higher capacity hybrid wireless-optical broadband access network (WOBAN). Computer Networks, 2011, 55, 2138-2149.	5.1	12
156	Integrated Design for Backup Capacity Sharing Between IP and Wavelength Services in IP-Over-WDM Networks. Journal of Optical Communications and Networking, 2012, 4, 53.	4.8	12
157	Cost-efficient live VM migration based on varying electricity cost in optical cloud networks. Photonic Network Communications, 2015, 30, 376-386.	2.7	12
158	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
159	DU/CU Placement for C-RAN over Optical Metro-Aggregation Networks. Lecture Notes in Computer Science, 2020, , 82-93.	1.3	12
160	Coordinating Multi-access Edge Computing with Mobile Fronthaul for Optimizing 5G End-to-End Latency. , 2018, , .		12
161	Optimal design for survivable backbones with end-to-end and subpath wavebanding. Journal of Optical Networking, 2007, 6, 1.	2.5	11
162	Dynamic SLA Redefinition for Shared-Path-Protected Connections with Known Duration. , 2008, , .		11

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163	On-Demand Provisioning of Data-Aggregation Sessions Over WDM Optical Networks. Journal of Lightwave Technology, 2009, 27, 1846-1855.	4.6	11
164	A disaster-resilient multi-content optical datacenter network architecture. , 2011, , .		11
165	Degradation attacks on Passive Optical Networks. , 2012, , .		11
166	On the effect of channel spacing, launch power, and regenerator placement on the design of mixed-line-rate optical networks. Optical Switching and Networking, 2013, 10, 301-311.	2.0	11
167	Exploiting Excess Capacity for Survivable Traffic Grooming in Optical Backbone Networks. Journal of Optical Communications and Networking, 2014, 6, 127.	4.8	11
168	Cost-effective migration towards C-RAN with optimal fronthaul design. , 2017, , .		11
169	Game-Assisted Distributed Decision Making to Build Virtual TDM-PONs in C-RANs Adaptively. Journal of Optical Communications and Networking, 2017, 9, 546.	4.8	11
170	Latency- and capacity-aware placement of chained Virtual Network Functions in FMC metro networks. Optical Switching and Networking, 2020, 35, 100536.	2.0	11
171	Survivable Virtual Network Mapping in Filterless Optical Networks. , 2020, , .		11
172	Minimum-Cost Optical Amplifier Placement in Metro Networks. Journal of Lightwave Technology, 2020, 38, 3221-3228.	4.6	11
173	Dynamic Placement of BaseBand Processing in 5G WDM-based Aggregation Networks. , 2017, , .		11
174	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
175	Quantifying Resource Savings from Low-Margin Design in Optical Networks with Probabilistic Constellation Shaping. , 2021, , .		11
176	Availability-Guaranteed Connection Provisioning with Delay Tolerance in Optical WDM Mesh Networks. , 2009, , .		10
177	Risk-Aware Routing for Optical Transport Networks. , 2010, , .		10
178	Traffic Grooming and Spectrum Assignment for Coherent Transceivers in Metro-Flexible Networks. IEEE Photonics Technology Letters, 2013, 25, 183-186.	2.5	10
179	Energy-efficient caching for Video-on-Demand in Fixed-Mobile Convergent networks. , 2015, , .		10
180	Dynamic bandwidth and wavelength allocation with coexisting transceiver technology in WDM/TDM PONs. Optical Switching and Networking, 2016, 21, 31-42.	2.0	10

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181	A survey on high-precision time synchronization techniques for optical datacenter networks and a zero-overhead microsecond-accuracy solution. Photonic Network Communications, 2018, 36, 56-67.	2.7	10
182	Robust hierarchical control plane for Transport Software-Defined Networks. Optical Switching and Networking, 2018, 30, 10-22.	2.0	10
183	Reliable Slicing of 5G Transport Networks with Dedicated Protection. , 2019, , .		10
184	Disaster-Aware Dynamic Content Placement in Optical Cloud Networks. , 2014, , .		10
185	Power Management in Mixed Line Rate Optical Network. , 2010, , .		10
186	Dynamic traffic grooming of subwavelength connections with known duration. , 2007, , .		9
187	New and Improved Strategies for Optical Protection in Mixed-Line-Rate WDM Networks. , 2010, , .		9
188	Power-aware design of protected IP-over-WDM Networks with sleep-mode devices. , 2012, , .		9
189	Survivable traffic grooming in elastic optical networks — Shared path protection. , 2012, , .		9
190	Load balancing and latency reduction in multi-user CoMP over TWDM-VPONs. , 2016, , .		9
191	Differential delay constrained multipath routing for SDN and optical networks. Electronic Notes in Discrete Mathematics, 2016, 52, 277-284.	0.4	9
192	Insights from Analysis of Video Streaming Data to Improve Resource Management. , 2018, , .		9
193	Latency-Aware Traffic Grooming for Dynamic Service Chaining in Metro Networks. , 2019, , .		9
194	Data evacuation from data centers in disaster-affected regions through software-defined satellite networks. Computer Networks, 2019, 148, 88-100.	5.1	9
195	On Dynamic Service Chaining in Filterless Optical Metro-Aggregation Networks. IEEE Access, 2020, 8, 222233-222241.	4.2	9
196	Emergency OPM Recreation and Telemetry for Disaster Recovery in Optical Networks. Journal of Lightwave Technology, 2020, 38, 2656-2668.	4.6	9
197	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
198	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

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199	Vertical and horizontal circuit/packet integration techniques for the future optical internet. IEEE Network, 2013, 27, 52-58.	6.9	8
200	Bandwidth and Routing Assignment for Virtual Machine Migration in Photonic Cloud Networks. , 2013, , .		8
201	Green Virtual Base Station in optical-access-enabled Cloud-RAN. , 2015, , .		8
202	Fairness-Aware Degradation Based Multipath Re-provisioning Strategy for Post-Disaster Telecom Mesh Networks. Journal of Optical Communications and Networking, 2016, 8, 441.	4.8	8
203	QoE Enhancement Schemes for Video in Converged OFDMA Wireless Networks and EPONs. Journal of Optical Communications and Networking, 2018, 10, 229.	4.8	8
204	Traffic Classification and Sifting to Improve TDM-EPON Fronthaul Upstream Efficiency. Journal of Optical Communications and Networking, 2018, 10, C15.	4.8	8
205	Virtualized controller placement for multi-domain optical transport networks using machine learning. Photonic Network Communications, 2020, 40, 126-136.	2.7	8
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