

Avishek Nag

List of Publications by Year in descending order

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67
papers

1,374
citations

516710

16
h-index

377865

34
g-index

67
all docs

67
docs citations

67
times ranked

1044
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	Optical Network Design With Mixed Line Rates and Multiple Modulation Formats. Journal of Lightwave Technology, 2010, 28, 466-475.	4.6	230
3	On the Design of Energy-Efficient Mixed-Line-Rate (MLR) Optical Networks. Journal of Lightwave Technology, 2012, 30, 130-139.	4.6	73
4	Optical network design with mixed line rates. Optical Switching and Networking, 2009, 6, 227-234.	2.0	48
5	Towards a Blockchain Assisted Patient Owned System for Electronic Health Records. Electronics (Switzerland), 2021, 10, 580.	3.1	40
6	Networked Twins and Twins of Networks: An Overview on the Relationship Between Digital Twins and 6G. IEEE Communications Standards Magazine, 2021, 5, 154-160.	4.9	39
7	Analyzing the impact of feature selection on the accuracy of heart disease prediction. Healthcare Analytics, 2022, 2, 100060.	4.3	37
8	Computing for rural empowerment: enabled by last-mile telecommunications. , 2016, 54, 102-109.		35
9	The Network As a Computer: A Framework for Distributed Computing Over IoT Mesh Networks. IEEE Internet of Things Journal, 2018, 5, 2107-2119.	8.7	35
10	Protection Schemes for Key Service in Optical Networks Secured by Quantum Key Distribution (QKD). Journal of Optical Communications and Networking, 2019, 11, 67.	4.8	27
11	Identifying Stroke Indicators Using Rough Sets. IEEE Access, 2020, 8, 210318-210327.	4.2	25
12	Secret-Key Provisioning With Collaborative Routing in Partially-Trusted-Relay-based Quantum-Key-Distribution-Secured Optical Networks. Journal of Lightwave Technology, 2022, 40, 3530-3545.	4.6	25
13	Transparent optical network design with mixed line rates. , 2008, , .		22
14	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
15	Resilient Quantum Key Distribution (QKD)-Integrated Optical Networks With Secret-Key Recovery Strategy. IEEE Access, 2019, 7, 60079-60090.	4.2	21
16	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
17	Robust Design of Spectrum-Efficient Green Optical Backbone Networks. Journal of Lightwave Technology, 2013, 31, 1138-1144.	4.6	18
18	Elastic optical network with spectrum slicing for fragmented bandwidth allocation. Optical Switching and Networking, 2020, 38, 100583.	2.0	17

#	ARTICLE	IF	CITATIONS
19	Auxiliary-Graph-Based Energy-Efficient Traffic Grooming in IP-Over-Fixed/Flex-Grid Optical Networks. Journal of Lightwave Technology, 2021, 39, 3011-3024.	4.6	17
20	Multi-path-based quasi-real-time key provisioning in quantum-key-distribution enabled optical networks (QKD-ON). Optics Express, 2021, 29, 21225.	3.4	16
21	Blockchain for 5G and IoT: Opportunities and Challenges. , 2020, , .		15
22	Quantum-Key-Distribution (QKD) Networks Enabled by Software-Defined Networks (SDN). Applied Sciences (Switzerland), 2019, 9, 2081.	2.5	14
23	Tree-topology-based quantum-key-relay strategy for secure multicast services. Journal of Optical Communications and Networking, 2020, 12, 120.	4.8	14
24	Auxiliary graph based routing, wavelength, and time-slot assignment in metro quantum optical networks with a novel node structure. Optics Express, 2020, 28, 5936.	3.4	14
25	A neural-network-based realization of in-network computation for the Internet of Things. , 2017, , .		13
26	Transparent vs. Translucent Optical Network Design with Mixed Line Rates. , 2009, , .		12
27	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
28	Spectrum allocation scheme considering spectrum slicing in elastic optical networks. Journal of Optical Communications and Networking, 2021, 13, 169.	4.8	11
29	Distributed subkey-relay-tree-based secure multicast scheme in quantum data center networks. Optical Engineering, 2020, 59, 1.	1.0	10
30	Power Management in Mixed Line Rate Optical Network. , 2010, , .		10
31	Telecom Mesh Network Upgrade to Manage Traffic Growth. Journal of Optical Communications and Networking, 2010, 2, 256.	4.8	9
32	Towards AI-enabled Microservice Architecture for Network Function Virtualization. , 2020, , .		9
33	On Spectrum-Efficient Green Optical Backbone Networks. , 2011, , .		7
34	Key-Recycling Strategies in Quantum-Key-Distribution Networks. Applied Sciences (Switzerland), 2020, 10, 3734.	2.5	7
35	Impact of channel spacing on the design of a mixed-line-rate optical network. , 2009, , .		6
36	B-VNF: Blockchain-enhanced Architecture for VNF Orchestration in MEC-5G Networks. , 2020, , .		6

#	ARTICLE	IF	CITATIONS
37	Mixed-line-rate optical network design with wavebanding. Optical Switching and Networking, 2012, 9, 286-296.	2.0	5
38	N:1 Protection Design for Minimising OLTs in Resilient Dual-Homed Long-Reach Passive Optical Network. , 2014, , .		5
39	Automatic Configuration of OpenFlow in Wireless Mobile Ad hoc Networks. , 2019, , .		5
40	End-to-End Quantum Key Distribution (QKD) from Metro to Access Networks. , 2020, , .		5
41	Routing, Core and Wavelength Allocation in Multi-Core-Fiber-Based Quantum-Key-Distribution-Enabled Optical Networks. IEEE Access, 2021, 9, 99842-99852.	4.2	5
42	Virtual Network Function Embedding under Nodal Outage Using Deep Q-Learning. Future Internet, 2021, 13, 82.	3.8	5
43	Collaborative Routing in Partially-Trusted Relay based Quantum Key Distribution Optical Networks. , 2020, , .		5
44	A software radio LTE network testbed for video quality of experience experimentation. , 2017, , .		4
45	Integrating Wireless BBUs with Optical OFDM Flexible-Grid Transponders in a C-RAN Architecture. , 2017, , .		4
46	Future Wireless Networking Experiments Escaping Simulations. Future Internet, 2022, 14, 120.	3.8	4
47	Mixed-Line-Rate (MLR) Optical Network Design Considering Heterogeneous Fiber Dispersion Maps. , 2011, , .		3
48	Optimal placement of combined 2R/3R regenerators in WDM networks. , 2012, , .		2
49	Exploiting Dual Homing in Access Networks to Improve Resiliency in Core Networks. Journal of Optical Communications and Networking, 2016, 8, 854.	4.8	2
50	Dual-Homing Based Protection for Enhanced Network Availability and Resource Efficiency. , 2014, , .		2
51	Optical Network Design with Mixed Line Rates and Multiple Modulation Formats. , 2009, , .		2
52	Analyzing Impact of Time on Early Detection of Rainfall Event. , 2021, , .		2
53	Mixed-line-rate (MLR) optical network design with wavebanding. , 2010, , .		1
54	Dimensioning optical WDM backbone networks with mixed line rates. , 2012, , .		1

#	ARTICLE	IF	CITATIONS
55	New concept in long-reach PON Planning: BER-aware wavelength allocation. Optical Switching and Networking, 2013, 10, 475-480.	2.0	1
56	Routing and Wavelength Assignment in WDM Networks with Mixed Line Rates. Optical Networks Series, 2013, , 53-77.	1.1	1
57	Non-Centralised and Non-GPS Navigation Mechanism using IoT sensors: challenges and trade-offs. , 2019, , .		1
58	An Efficient Detour Computation Scheme for Electric Vehicles to Support Smart Citiesâ€™™ Electrification. Electronics (Switzerland), 2022, 11, 803.	3.1	1
59	BER-aware wavelength allocation schemes for long-reach PON employing AWG-based remote node. , 2011, , .		0
60	On the dimensioning of survivable optical metro/core networks with dual-homed access. , 2015, , .		0
61	Experimental evaluation of SAPC-R: an adaptive power control protocol for mobile sensors. , 2018, , .		0
62	Fall Detection with Privacy as Standard. , 2019, , .		0
63	Virtual Network Provisioning over Mixed-Fixed/Flexible-Grid Optical Infrastructures. Electronics (Switzerland), 2021, 10, 2067.	3.1	0
64	Optical Network Design with Mixed Line Rates and Multiple Modulation Formats. , 2009, , .		0
65	Energy-Efficient Capacity Upgrade in Optical Networks with Mixed Line Rates. , 2012, , .		0
66	On Adaptive Network Deployment for Visible Light Communications. , 2021, , .		0
67	Spectrum-Entropy-Minimized Routing and Spectrum Allocation in IP over Mixed-Fixed/Flex-Grid Optical Networks. Photonics, 2022, 9, 428.	2.0	0