

Noemã- A Merayo

List of Publications by Year in descending order

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62
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62
times ranked

615
citing authors

#	ARTICLE	IF	CITATIONS
1	Challenges of STEM Vocations in Secondary Education. IEEE Transactions on Education, 2022, , 1-12.	2.4	1
2	A testbed for CCAM services supported by edge computing, and use case of computation offloading. , 2022, , .		2
3	Routing, Modulation and Spectrum Assignment Algorithm Using Multi-Path Routing and Best-Fit. IEEE Access, 2021, 9, 111633-111650.	4.2	15
4	An Experimental OpenFlow Proposal over Legacy GPONs to Allow Real-Time Service Reconfiguration Policies. Applied Sciences (Switzerland), 2021, 11, 903.	2.5	2
5	Joint Core and Spectrum Allocation in Dynamic Optical Networks with ROADMs with No Line Changes. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2021, , 154-162.	0.3	0
6	A testbed and a simulation laboratory for training engineering students in optical access network technologies. Computer Applications in Engineering Education, 2021, 29, 1892-1910.	3.4	1
7	Experimental validation of an SDN residential network management proposal over a GPON testbed. Optical Switching and Networking, 2021, 42, 100631.	2.0	5
8	An Experimental SDN Proposal over Legacy GPONs to Allow Real-Time Service and Residential Network Reconfiguration. , 2020, , .		1
9	NFV and SDN-Based Differentiated Traffic Treatment for Residential Networks. IEEE Access, 2020, 8, 34038-34055.	4.2	10
10	Genetic Algorithm for Holistic VNF-Mapping and Virtual Topology Design. IEEE Access, 2020, 8, 55893-55904.	4.2	9
11	Efficient T-CONT-Agnostic Bandwidth and Wavelength Allocation for NG-PON2. Journal of Optical Communications and Networking, 2019, 11, 383.	4.8	7
12	Design of VNF-Mapping with Node Protection in WDM Metro Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2019, , 285-298.	0.3	1
13	Artificial intelligence (AI) methods in optical networks: A comprehensive survey. Optical Switching and Networking, 2018, 28, 43-57.	2.0	274
14	A Genetic Algorithm for VNF Provisioning in NFV-Enabled Cloud/MEC RAN Architectures. Applied Sciences (Switzerland), 2018, 8, 2614.	2.5	18
15	Supervised Machine Learning Techniques for Quality of Transmission Assessment in Optical Networks. , 2018, , .		11
16	Application of Artificial Intelligence Techniques in Optical Networks. , 2018, , .		2
17	AIM€Mobile Learning Platform to enhance the teaching€learning process using smartphones. Computer Applications in Engineering Education, 2018, 26, 1753-1768.	3.4	13
18	NFV-based QoS provision for Software Defined Optical Access and residential networks. , 2017, , .		7

#	ARTICLE	IF	CITATIONS
19	Testbed laboratory for the physical analysis of gigabit passive optical access networks (GPONs). , 2017, , .		2
20	A SVM approach for lightpath QoT estimation in optical transport networks. , 2017, , .		15
21	Techno-economic comparison of dynamic traffic grooming strategies for elastic optical networks. , 2017, , .		1
22	An auto-tuning PID control system based on genetic algorithms to provide delay guarantees in Passive Optical Networks. Expert Systems With Applications, 2015, 42, 9211-9220.	7.6	24
23	A comparison of dynamic traffic grooming algorithms for elastic optical networks. , 2015, , .		3
24	Designing virtual topologies in flexible optical networks. , 2014, , .		1
25	Strategies for the interconnection of heterogeneous optical networks. , 2014, , .		0
26	A PID-based algorithm to guarantee QoS delay requirements in LR-PONs. Optical Switching and Networking, 2014, 14, 78-92.	2.0	7
27	A Cognitive Quality of Transmission Estimator for Core Optical Networks. Journal of Lightwave Technology, 2013, 31, 942-951.	4.6	61
28	Remote-seeded WDM-PON upgrade using linear semiconductor optical amplifiers. Optics Communications, 2013, 295, 119-124.	2.1	0
29	Fiber to the Home Through Passive Optical Networks. Optical Networks Series, 2012, , 337-372.	1.1	1
30	Assessment of linear semiconductor amplifiers for upgrading WDM-PONs with wavelength reuse. Applied Optics, 2012, 51, 692.	1.8	1
31	Performance comparison of methods to solve the Routing and Spectrum Allocation problem. , 2012, , .		10
32	Survivable and impairment-aware virtual topologies for reconfigurable optical networks: A cognitive approach. , 2012, , .		6
33	Implementation of a PID Controller for the Bandwidth Assignment in Long-Reach PONs. Journal of Optical Communications and Networking, 2012, 4, 392.	4.8	24
34	Impact of TCP synchronization on capacity dimensioning of Optical Burst Switched (OBS) links. , 2012, , .		1
35	Enhancing optical networks with cognition: Case-Based Reasoning to estimate the quality of transmission. , 2012, , .		2
36	Cognitive algorithm to solve the impairment-aware virtual topology design problem in reconfigurable optical networks. , 2012, , .		3

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37	PID strategies for the dynamic allocation of resources in LR-Ethernet Passive Optical Networks. , 2012, , .		0
38	Optimization of the knowledge base of a cognitive quality of transmission estimator for core optical networks. , 2012, , .		2
39	Self-adapted algorithm to provide multi-profile bandwidth guarantees in PONs with symmetric and asymmetric traffic load. Photonic Network Communications, 2012, 24, 58-70.	2.7	4
40	Modelling and Implementation of a WDM-TDM EPON Simulator in OMNET++. , 2012, , .		0
41	Advantages of using cognition when solving impairment-aware virtual topology design problems. , 2011, , .		4
42	WDM-PON network upscaling using in-building linear SOAs. , 2011, , .		1
43	A bandwidth assignment polling algorithm to enhance the efficiency in QoS long-reach EPONs. European Transactions on Telecommunications, 2011, 22, 35-44.	1.2	15
44	Shared Wavelength Assignment Algorithm in Multi-profile WDM-EPONs to Support Upstream Bandwidth Guarantees. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2011, , 153-167.	0.3	0
45	Adaptive polling algorithm to provide subscriber and service differentiation in a Long-Reach EPON. Photonic Network Communications, 2010, 19, 257-264.	2.7	14
46	A Wavelength and Bandwidth Assignment Algorithm to Support Guaranteed Bandwidth Levels in Hybrid Time Division Multiplexing/Wavelength Division Multiplexing Ethernet Passive Optical Networks. Fiber and Integrated Optics, 2010, 29, 394-419.	2.5	0
47	LR-EPON Algorithm with Automatic Bandwidth Adaptation to Provide Multi-Profiles Bandwidth Levels. , 2010, , .		1
48	Hybrid Dynamic Bandwidth and Wavelength Allocation Algorithm to Support Multi-Service Level Profiles in a WDM-EPON. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2010, , 1-13.	0.3	1
49	Competitive Learning in Electric Circuit Theory Using MOODLE. Communications in Computer and Information Science, 2010, , 113-122.	0.5	0
50	Minimisation of end-to-end delay in reconfigurable WDM networks using genetic algorithms. European Transactions on Telecommunications, 2009, 20, 722-733.	1.2	6
51	Genetic algorithm to design logical topologies in reconfigurable WDM networks. Photonic Network Communications, 2009, 17, 21-33.	2.7	9
52	EPON bandwidth allocation algorithm based on automatic weight adaptation to provide client and service differentiation. Photonic Network Communications, 2009, 17, 119-128.	2.7	14
53	Joint optimization of delay and congestion in wavelength-routed optical networks using genetic algorithms. Photonic Network Communications, 2009, 18, 334-344.	2.7	2
54	Interleaved polling algorithm with inserted cycles to support service level agreement in Long-Reach EPONs. , 2009, , .		4

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55	Efficient design of Wavelength-Routed Optical Networks with failure protection using genetic algorithms. , 2008, , .		1
56	Efficient reconfiguration of logical topologies: Multiobjective design algorithm and adaptation policy. , 2008, , .		4
57	Multiobjective Genetic Algorithm to Design Cost-Efficient Wavelength-Routed Optical Networks. , 2007, , .		8
58	Interleaved Polling Algorithm with Service Level Agreement (SLA) to Improve QoS in Ethernet PONs. , 2007, , .		2
59	A New Algorithm for the Distributed RWA Problem in WDM Networks Using Ant Colony Optimization. Lecture Notes in Computer Science, 2007, , 299-308.	1.3	4
60	A Genetic Algorithm to Design Logical Topologies with Low Congestion in Reconfigurable WDM Networks. , 2006, , .		0
61	Multipurpose Genetic Algorithm Based in Pareto Optimality to Design Logical Topologies in Reconfigurable WDM Networks. , 2006, , .		5
62	Bandwidth Allocation Methods in Passive Optical Access Networks (PONs). , 0, , 123-145.		0