

Amaro F De Sousa

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic Bandwidth Allocation for NG-PONs With Channel Bonding. IEEE Communications Letters, 2022, 26, 374-378.	4.1	4
2	Assessment of Connectivity-Based Resilience to Attacks Against Multiple Nodes in SDNs. IEEE Access, 2021, 9, 58266-58286.	4.2	8
3	Self-Adjusting DBA Algorithm for Next Generation PONs (NG-PONs) to Support 5G Fronthaul and Data Services. Journal of Lightwave Technology, 2021, 39, 1913-1924.	4.6	17
4	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
5	RMSA algorithms resilient to multiple node failures in dynamic EONs. Optical Switching and Networking, 2021, 42, 100633.	2.0	3
6	The minimum cost network upgrade problem with maximum robustness to multiple node failures. Computers and Operations Research, 2021, 136, 105453.	4.0	2
7	Optimizing primary and backup SDN controllers' placement resilient to node-targeted attacks. , 2021, , .		5
8	Content placement in 5G-enabled edge/core data center networks resilient to link cut attacks. Networks, 2020, 75, 392-404.	2.7	10
9	Design/upgrade of a transparent optical network topology resilient to the simultaneous failure of its critical nodes. Networks, 2020, 75, 356-373.	2.7	4
10	The controller placement problem for robust SDNs against malicious node attacks considering the control plane with and without split-brain. Annales Des Telecommunications/Annals of Telecommunications, 2019, 74, 575-591.	2.5	14
11	Low Latency Dynamic Bandwidth Allocation Algorithms for NG-PON2 to Support 5G Fronthaul and Data Services. , 2019, , .		4
12	Evaluation and Design of Elastic Optical Networks Resilient to Multiple Node Failures. , 2019, , .		2
13	Minimization of the network availability upgrade cost with geodiverse routing for disaster resilience. Optical Switching and Networking, 2019, 31, 127-143.	2.0	18
14	Dynamic Bandwidth Allocation algorithms for NG-PON2 to support 5G Fronthaul services. , 2019, , .		2
15	Critical Node Detection with Connectivity Based on Bounded Path Lengths. Springer Proceedings in Mathematics and Statistics, 2019, , 15-28.	0.2	0
16	Compact Models for Critical Node Detection in Telecommunication Networks. Electronic Notes in Discrete Mathematics, 2018, 64, 325-334.	0.4	27
17	The Design of Transparent Optical Networks Minimizing the Impact of Critical Nodes. Electronic Notes in Discrete Mathematics, 2018, 64, 165-174.	0.4	4
18	Heuristics for the Minimum Broadcast Time. Electronic Notes in Discrete Mathematics, 2018, 69, 165-172.	0.4	4

#	ARTICLE	IF	CITATIONS
19	Topology Design of Transparent Optical Networks Resilient to Multiple Node Failures. , 2018, , .		9
20	On the Trade-offs between User-to-Replica Distance and CDN Robustness to Link Cut Attacks. , 2018, , .		7
21	Robust SDN controller placement to malicious node attacks. , 2018, , .		17
22	On the comparative efficiency of non-disruptive defragmentation techniques in flexible-grid optical networks. Optical Switching and Networking, 2017, 25, 149-159.	2.0	6
23	A worst case analysis of C-RAN fronthaul coverage length with Ethernet based technologies. , 2017, , .		0
24	Lightpath admission control and rerouting in dynamic flexâ€grid optical transport networks. Networks, 2017, 69, 151-163.	2.7	9
25	Minimizing the network availability upgrade cost with geodiversity guarantees. , 2017, , .		8
26	The Minimum Cost Design of Transparent Optical Networks Combining Grooming, Routing, and Wavelength Assignment. IEEE/ACM Transactions on Networking, 2016, 24, 3702-3713.	3.8	6
27	Network Admission Control Solution for 6LoWPAN Networks Based on Symmetric Key Mechanisms. IEEE Transactions on Industrial Informatics, 2016, 12, 2186-2195.	11.3	23
28	Maximization of protected demand in telecommunication networks using partial disjoint paths. , 2016, , .		0
29	A survey of strategies for communication networks to protect against large-scale natural disasters. , 2016, , .		90
30	Compact ILP formulations for the routing and wavelength assignment problem in the design of optical transport networks with regenerators. EURO Journal on Computational Optimization, 2016, 4, 189-213.	2.4	2
31	Bin-packing based optimisation of EON Networks with S-BVTs. , 2016, , .		1
32	Lightpath Admission Control in Dynamic Optical Transport Networks. Electronic Notes in Discrete Mathematics, 2016, 52, 205-212.	0.4	3
33	Lexicographical minimization of routing hops in hop-constrained node survivable networks. Telecommunication Systems, 2016, 62, 417-434.	2.5	3
34	Optimal Cable Design of Wind Farms:<?Pub _newline ?> The Infrastructure and Losses Cost Minimization Case. IEEE Transactions on Power Systems, 2016, 31, 4319-4329.	6.5	47
35	Offline Lightpath Allocation in All-Optical Networks with Impairment Aware RWA Based on the GN Model. , 2015, , .		1
36	IOT based solution for home power energy monitoring and actuating. , 2015, , .		13

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37	Single PON network design with unconstrained splitting stages. European Journal of Operational Research, 2015, 240, 361-371.	5.7	2
38	Design cost and spectrum efficiency comparison of fixed-grid and flex-grid optical networks with grooming. , 2014, , .		3
39	Spanning trees with variable degree bounds. European Journal of Operational Research, 2014, 239, 830-841.	5.7	3
40	Denial of service mitigation approach for IPv6-enabled smart object networks. Concurrency Computation Practice and Experience, 2013, 25, 129-142.	2.2	23
41	Optimizing network load balancing: an hybridization approach of metaheuristics with column generation. Telecommunication Systems, 2013, 52, 959-968.	2.5	7
42	Algorithms in the deployment of Optical Transport Networks. , 2013, , .		1
43	Load balancing optimization of telecommunication networks with two differentiated services. Electronic Notes in Discrete Mathematics, 2013, 41, 351-358.	0.4	1
44	A hybrid column generation with GRASP and path relinking for the network load balancing problem. Computers and Operations Research, 2013, 40, 3147-3158.	4.0	12
45	Combining Column Generation and Metaheuristics. Studies in Computational Intelligence, 2013, , 285-334.	0.9	13
46	A Network Access Control Framework for 6LoWPAN Networks. Sensors, 2013, 13, 1210-1230.	3.8	24
47	Network Admission Control Solution for 6LoWPAN Networks. , 2013, , .		9
48	Models for optimal survivable routing with a minimum number of hops: comparing disaggregated with aggregated models. International Transactions in Operational Research, 2011, 18, 335-358.	2.7	5
49	Optimization of link load balancing in multiple spanning tree routing networks. Telecommunication Systems, 2011, 48, 109-124.	2.5	17
50	Prize collecting Steiner trees with node degree dependent costs. Computers and Operations Research, 2011, 38, 234-245.	4.0	9
51	Routing and mobility approaches in IPv6 over LoWPAN mesh networks. International Journal of Communication Systems, 2011, 24, 1445-1466.	2.5	90
52	Lexicographical Minimization of Routing Hops in Telecommunication Networks. Lecture Notes in Computer Science, 2011, , 216-229.	1.3	2
53	Load Balancing Optimization of Capacitated Networks with Path Protection. Electronic Notes in Discrete Mathematics, 2010, 36, 1249-1256.	0.4	4
54	Link load balancing optimization of telecommunication networks: A column generation based heuristic approach. , 2010, , .		5

#	ARTICLE	IF	CITATIONS
55	SearchCol: Metaheuristic Search by Column Generation. Lecture Notes in Computer Science, 2010, , 190-205.	1.3	10
56	Traffic Engineering of Multiple Spanning Tree Routing Networks: the Load Balancing Case. , 2009, , .		11
57	Traffic Engineering of Telecommunication Networks Based on Multiple Spanning Tree Routing. Lecture Notes in Computer Science, 2009, , 114-129.	1.3	4
58	Hop-Constrained Node Survivable Network Design: An Application to MPLS over WDM. Networks and Spatial Economics, 2008, 8, 3-21.	1.6	31
59	Optimal Survivable Routing with a Small Number of Hops. Operations Research/ Computer Science Interfaces Series, 2008, , 253-274.	0.3	2
60	Compact Models for Hop-Constrained Node Survivable Network Design: An Application to MPLS. Operations Research/ Computer Science Interfaces Series, 2006, , 167-180.	0.3	6
61	<title>DMIF over RSVP/IP protocol stack: experimental results for MPEG-4 multimedia streaming</title>. , 2001, , .		0
62	<title>Heuristics for dimensioning large-scale MPLS networks</title>. , 2001, , .		0
63	RACE â€œMARSâ€•project for the experimentation of multimedia interactive services: Architecture solutions and results. European Transactions on Telecommunications, 1997, 8, 321-335.	1.2	1
64	Error pattern addition for cell synchronisation in ATM systems. Electronics Letters, 1992, 28, 929-930.	1.0	1
65	MPLS over WDM network design with packet level QoS constraints based on ILP models. , 0, , .		31
66	Combined link dimensioning and weight assignment of minimum weight routing networks. , 0, , .		0
67	Improving Load Balance and Resilience of Ethernet Carrier Networks with IEEE 802.1S Multiple Spanning Tree Protocol. , 0, , .		14