

JosÃ© Alberto HernÃ¡ndez

List of Publications by Year in descending order

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93
papers

1,289
citations

516710

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477307

29
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96
all docs

96
docs citations

96
times ranked

1196
citing authors

#	ARTICLE	IF	CITATIONS
1	An overview of the CPRI specification and its application to C-RAN-based LTE scenarios. , 2016, 54, 152-159.		152
2	Performance evaluation of energy efficient ethernet. IEEE Communications Letters, 2009, 13, 697-699.	4.1	112
3	Dissecting the protocol and network traffic of the OnLive cloud gaming platform. Multimedia Systems, 2014, 20, 451-470.	4.7	78
4	Fronthaul Network Modeling and Dimensioning Meeting Ultra-Low Latency Requirements for 5G. Journal of Optical Communications and Networking, 2018, 10, 573.	4.8	72
5	On the duration and spatial characteristics of internet traffic measurement experiments. IEEE Communications Magazine, 2008, 46, 148-155.	6.1	53
6	Burst Transmission in Energy Efficient Ethernet. IEEE Internet Computing, 2010, , .	3.3	51
7	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
8	Weibull mixture model to characterise end-to-end Internet delay at coarse time-scales. IET Communications, 2006, 153, 295.	1.0	43
9	5G New Radio Fronthaul Network Design for eCPRI-IEEE 802.1CM and Extreme Latency Percentiles. IEEE Access, 2019, 7, 82218-82230.	4.2	37
10	An empirical study of Cloud Gaming. , 2012, , .		35
11	Meeting the Traffic Requirements of Residential Users in the Next Decade with Current FTTH Standards: How Much? How Long?. IEEE Communications Magazine, 2019, 57, 120-125.	6.1	28
12	Is multilayer networking feasible?. Optical Switching and Networking, 2009, 6, 129-140.	2.0	25
13	New insights from the analysis of free flow vehicular traffic in highways. , 2011, , .		25
14	Comprehensive model for technoeconomic studies of next-generation central offices for metro networks. Journal of Optical Communications and Networking, 2020, 12, 414.	4.8	25
15	Towards an energy efficient 10 Gb/s optical ethernet: Performance analysis and viability. Optical Switching and Networking, 2011, 8, 131-138.	2.0	23
16	Machine-Learning based analysis and classification of Android malware signatures. Future Generation Computer Systems, 2019, 97, 295-305.	7.5	23
17	Machine-Learning-Assisted Routing in SDN-Based Optical Networks. , 2018, , .		20
18	Characterization of the busy-hour traffic of IP networks based on their intrinsic features. Computer Networks, 2011, 55, 2111-2125.	5.1	19

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19	Android Malware Characterization Using Metadata and Machine Learning Techniques. Security and Communication Networks, 2018, 2018, 1-11.	1.5	19
20	Decentralized Coordination of Converged Tactile Internet and MEC Services in H-CRAN Fiber Wireless Networks. Journal of Lightwave Technology, 2020, 38, 4935-4947.	4.6	19
21	On the analysis of burst-assembly delay in OBS networks and applications in delay-based service differentiation. Photonic Network Communications, 2007, 14, 49-62.	2.7	16
22	SDN-Enabled S-BVT for Disaggregated Networks: Design, Implementation and Cost Analysis. Journal of Lightwave Technology, 2020, 38, 3037-3043.	4.6	16
23	Provisioning 1 Gb/s symmetrical services with next-generation passive optical network technologies. IEEE Communications Magazine, 2016, 54, 72-77.	6.1	15
24	Extension of the Flow-Aware Networking (FAN) architecture to the IP over WDM environment. , 2008, , .		14
25	Design and Analysis of 5G Scenarios with simmer: An R Package for Fast DES Prototyping. IEEE Communications Magazine, 2018, 56, 145-151.	6.1	13
26	A reliability analysis of Double-Ring topologies with Dual Attachment using p-cycles for optical metro networks. Computer Networks, 2010, 54, 1328-1341.	5.1	12
27	Android malware detection from Google Play meta-data: Selection of important features. , 2015, , .		12
28	Delay analysis of fronthaul traffic in 5G transport networks. , 2017, , .		12
29	Analysis of Blocking Probability of Data Bursts With Continuous-Time Variable Offsets in Single-Wavelength OBS Switches. Journal of Lightwave Technology, 2008, 26, 1559-1568.	4.6	11
30	On providing mobility management in WOBANs: integration with PMIPv6 and MIH. , 2013, 51, 172-181.		11
31	Towards a unified fronthaul-backhaul data plane for 5G The 5G-Crosshaul project approach. Computer Standards and Interfaces, 2017, 51, 56-62.	5.4	11
32	A Techno-Economic Study of Optical Network Disaggregation Employing Open Source Software Business Models for Metropolitan Area Networks. IEEE Communications Magazine, 2020, 58, 40-46.	6.1	11
33	Improving Energy Efficiency in IEEE 802.3ba High-Rate Ethernet Optical Links. IEEE Journal of Selected Topics in Quantum Electronics, 2011, 17, 419-427.	2.9	10
34	Study of the potential energy savings in Ethernet by combining Energy Efficient Ethernet and Adaptive Link Rate. European Transactions on Telecommunications, 2012, 23, 227-233.	1.2	10
35	Salary Prediction in the IT Job Market with Few High-Dimensional Samples: A Spanish Case Study. International Journal of Computational Intelligence Systems, 2018, 11, 1192.	2.7	10
36	Analysis of average burst-assembly delay and applications in proportional service differentiation. Photonic Network Communications, 2007, 14, 183-197.	2.7	9

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37	Admission control policies in flow-aware networks. , 2009, , .		9
38	Analysis and simulation of a delay-based service differentiation algorithm for IPACT-based PONs. Photonic Network Communications, 2012, 24, 228-236.	2.7	9
39	Delay analysis of mixed fronthaul and backhaul traffic under strict priority queueing discipline in a 5G packet transport network. Transactions on Emerging Telecommunications Technologies, 2017, 28, e3168.	3.9	8
40	A multi-layer recovery strategy in FAN over WDM architectures. , 2009, , .		7
41	Troubleshooting PON networks effectively with carrier-grade ethernet and WDM-PON. , 2014, 52, S7-S7.		7
42	Voting Margin: A Scheme for Error-Tolerant k -Nearest Neighbors Classifiers for Machine Learning. IEEE Transactions on Emerging Topics in Computing, 2021, 9, 2089-2098.	4.6	7
43	Is your FPGA bitstream Hardware Trojan-free? Machine learning can provide an answer. Journal of Systems Architecture, 2022, 128, 102543.	4.3	7
44	Performance Evaluation and Design of Polymorphous OBS Networks With Guaranteed TDM Services. Journal of Lightwave Technology, 2009, 27, 2495-2505.	4.6	6
45	Performance analysis of Energy Efficient Ethernet on video streaming servers. Computer Networks, 2013, 57, 599-608.	5.1	6
46	Analysis of a hybrid Fixed-Elastic DBA with guaranteed fronthaul delay in XG(s)-PONs. Computer Networks, 2019, 164, 106907.	5.1	6
47	CloneSpot: Fast detection of Android repackages. Future Generation Computer Systems, 2019, 94, 740-748.	7.5	6
48	Managing delay in the access. , 2012, , .		5
49	Failure propagation in GMPLS optical rings: CTMC model and performance analysis. Optical Switching and Networking, 2012, 9, 39-51.	2.0	5
50	On the effect of sudden data bursts in the upstream channel of Ethernet PONs employing IPACT under the gated-service discipline. Optical Switching and Networking, 2014, 13, 94-102.	2.0	5
51	Learning EPON Delay Models From Data: A Machine Learning Approach. Journal of Optical Communications and Networking, 0, , .	4.8	5
52	A Middleware Architecture for Designing TV-Based Adapted Applications for the Elderly. Lecture Notes in Computer Science, 2011, , 443-449.	1.3	5
53	Discrete-time heavy-tailed chains, and their properties in modeling network traffic. ACM Transactions on Modeling and Computer Simulation, 2007, 17, 17.	0.8	4
54	A queueing equivalent thresholding method for thinning traffic captures. , 2008, , .		4

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55	Multilayer Traffic Engineering for IP Over WDM Networks Based on Bayesian Decision Theory. Journal of Optical Communications and Networking, 2010, 2, 515.	4.8	4
56	On the tweet arrival process at Twitter: analysis and applications. Transactions on Emerging Telecommunications Technologies, 2014, 25, 273-282.	3.9	4
57	Oversubscription Dimensioning of Next-Generation PONs with Different Service Levels. IEEE Communications Letters, 2016, , 1-1.	4.1	4
58	All-optical aggregation and distribution of traffic in large metropolitan area networks using multi-Tb/s S-BVTs. Journal of Optical Communications and Networking, 2022, 14, 316.	4.8	4
59	Performance comparison of scheduling algorithms for IPTV traffic over polymorphous OBS routers. , 2007, , .		3
60	Analysis of the processing and sojourn times of Burst Control Packets in Optical Burst Switches. , 2008, , .		3
61	Performance analysis of asynchronous best-effort traffic coexisting with TDM reservations in polymorphous OBS networks. Photonic Network Communications, 2009, 17, 93-103.	2.7	3
62	Assembly admission control based on random packet selection at border nodes in Optical Burst-Switched networks. Photonic Network Communications, 2009, 18, 39-48.	2.7	3
63	On the blocking time distribution of core OBS switches. Photonic Network Communications, 2009, 18, 314-322.	2.7	3
64	Buffer Design Under Bursty Traffic with Applications in FCoE Storage Area Networks. IEEE Communications Letters, 2013, 17, 413-416.	4.1	3
65	On the Early Release of Burst-Control Packets in Optical Burst-Switched Networks. Lecture Notes in Computer Science, 2008, , 31-40.	1.3	3
66	A Bayesian decision theory approach for the techno-economic analysis of an all-optical router (extended version). Computer Networks, 2008, 52, 1916-1926.	5.1	2
67	On local CAC schemes for scalability of high-speed networks. , 2008, , .		2
68	Performance evaluation of an optical transparent access tier based on PON and spectral codes. IEEE Journal on Selected Areas in Communications, 2009, 27, 143-155.	14.0	2
69	Study of a hybrid OCDMA-WDM segmented ring for metropolitan area networks. , 2011, , .		2
70	On providing metro ethernet services over transparent WDM optical rings. IEEE Network, 2011, 25, 14-19.	6.9	2
71	A note on the potential energy savings by extending the average cycle times in Passive Optical Networks. , 2012, , .		2
72	Using transparent WDM metro rings to provide an out-of-band control network for OpenFlow in MAN. , 2013, , .		2

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73	Heuristics for PON-based 5G backhaul design. , 2014, , .		2
74	Packet Coalescing Strategies for Energy Efficient High-Speed Communications Over Plastic Optical Fibers. Journal of Optical Communications and Networking, 2015, 7, 253.	4.8	2
75	Network Planning for Dual Residential-Business Exploitation of Next-Generation Passive Optical Networks to Provide Symmetrical 10Gb/s Services. Journal of Optical Communications and Networking, 2016, 8, 249.	4.8	2
76	Analysis and Evaluation of Antivirus Engines in Detecting Android Malware: A Data Analytics Approach. , 2018, , .		2
77	Netgen: A Fast and Scalable Tool for the Generation and Labeling of Networking Datasets. , 2019, , .		2
78	Learning from data: Applications of Machine Learning in optical network design and modeling. , 2020, , .		2
79	On the cloudification of Metropolitan Area Networks: impact on cost and energy consumption. , 2021, , .		2
80	Low-Latency Transmission of Fronthaul Traffic over XG(S)-PON with Fixed-Elastic Bandwidth Reservations. , 2019, , .		2
81	Applications of Machine Learning Techniques for What-if Analysis and Network Overload Detection. , 2022, , .		2
82	A Resilience-Based Comparative Study between Optical Burst Switching and Optical Circuit Switching Technologies. , 2006, , .		1
83	Multicast service for ultraflow access networks. , 2013, , .		1
84	Dimensioning Flex Ethernet Groups for the transport of 5G NR fronthaul traffic in C-RAN scenarios. , 2021, , .		1
85	On Local CAC Schemes for Scalability of High-speed Networks. Journal of Networks, 2010, 5, .	0.4	1
86	Jitter-based analysis and discussion of burst assembly algorithms. , 2006, , .		0
87	An information model for the management of Optical Burst Switched networks. , 2007, , .		0
88	Analysis of delay mean and variance of collision-free WDM rings with segment recirculation of blocked traffic. Photonic Network Communications, 2011, 21, 278-287.	2.7	0
89	Cycle configuration possibilities over DRDA networks. Transactions on Emerging Telecommunications Technologies, 2015, 26, 1086-1095.	3.9	0
90	SignatureMiner: A Fast Anti-Virus Signature Intelligence Tool. , 2018, , .		0

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91	A Quality of Service Assessment Technique for Large-Scale Management of Multimedia Flows. Lecture Notes in Computer Science, 2007, , 173-176.	1.3	0
92	Optical Burst Switching. Computer Communications and Networks, 2009, , 87-130.	0.8	0
93	A Bloom Filter-Based Monitoring Station for a Lawful Interception Platform. Communications in Computer and Information Science, 2014, , 214-228.	0.5	0