Roberto Rojas-Cessa

List of Publications by Citations

79 papers	561 citations	10 h-index	20 g-index
102 ext. papers	788 ext. citations	5.6 avg, IF	4.3 L-index

#	Paper	IF	Citations
79	A Survey on Acquisition, Tracking, and Pointing Mechanisms for Mobile Free-Space Optical Communications. *IEEE Communications Surveys and Tutorials*, **2018**, 20, 1104-1123	37.1	111
78	Schemes for Fast Transmission of Flows in Data Center Networks. *IEEE Communications Surveys and Tutorials*, **2015**, 17, 1391-1422	37.1	26
77	Optimal Positioning of Ground Base Stations in Free-Space Optical Communications for High-Speed Trains. *IEEE Transactions on Intelligent Transportation Systems*, **2018**, 19, 1940-1949	6.1	24
76	Provisioning Internet Access Using FSO in High-Speed Rail Networks. *IEEE Network*, **2017**, 31, 96-101	11.4	23
75	. *IEEE Transactions on Vehicular Technology*, **2017**, 66, 7677-7687	6.8	22
74	. *IEEE Transactions on Vehicular Technology*, **2018**, 67, 1292-1301	6.8	18
73	Performance of Optical Packet Switches Based on Parametric Wavelength Converters. *Journal of Optical Communications and Networking*, **2010**, 2, 558	4.1	17
72	Non-blocking memory-memory-memory Clos-network packet switch **2011**,		15
71	Allocation of Discrete Energy on a Cloud-Computing Datacenter Using a Digital Power Grid **2012**,		11
70	Reducing the Number of FSO Base Stations With Dual Transceivers for Next-Generation Ground-to-Train Communications. *IEEE Transactions on Vehicular Technology*, **2018**, 67, 11143-11153	6.8	11
69	Memory-memory-memory Clos-network packet switches with in-sequence service **2011**,		10
68	Task-execution scheduling schemes for network measurement and monitoring. *Computer Communications*, **2010**, 33, 124-135	5.1	10
67	Blockchain Implementation for Analysis of Carbon Footprint across Food Supply Chain **2019**,		10
66	Task and Server Assignment for Reduction of Energy Consumption in Datacenters **2012**,		9
65	Management of a smart grid with controlled-delivery of discrete levels of energy **2013**,		9
64	Captured-frame matching schemes for scalable input-queued packet switches. *Computer Communications*, **2007**, 30, 2149-2161	5.1	9
63	Survey of Saliva Components and Virus Sensors for Prevention of COVID-19 and Infectious Diseases. *Biosensors*, **2020**, 11,	5.9	9

62	GAN Tunnel: Network Traffic Steganography by Using GANs to Counter Internet Traffic Classifiers. *IEEE Access*, **2020**, 8, 125345-125359	3.5	9
61	Correlation of subway turnstile entries and COVID-19 incidence and deaths in New York City. *Infectious Disease Modelling*, **2021**, 6, 183-194	15.7	9
60	Scheme to Measure Packet Processing Time of a Remote Host through Estimation of End-Link Capacity. *IEEE Transactions on Computers*, **2015**, 64, 205-218	2.5	8
59	Integration of alternative energy sources into digital micro-grids. *Environmental Progress and Sustainable Energy*, **2018**, 37, 155-164	2.5	8
58	DAQ: Deadline-Aware Queue scheme for scheduling service flows in data centers **2014**,		8
57	Measurement Scheme for One-Way Delay Variation with Detection and Removal of Clock Skew. *ETRI Journal*, **2010**, 32, 854-862	1.4	8
56	How Blockchain Enhances Supply Chain Management: A Survey. *IEEE Open Journal of the Computer Society*, **2020**, 1, 230-249	3.6	8
55	Sensing, calculating, and disseminating evacuating routes during an indoor fire using a sensor and diffusion network **2016**,		7
54	Testbed evaluations of a controlled-delivery power grid **2014**,		7
53	Active Scheme to Measure Throughput of Wireless Access Link in Hybrid Wired-Wireless Network. *IEEE Wireless Communications Letters*, **2012**, 1, 645-648	5.9	7
52	MCS: Buffered Clos-network switch with in-sequence packet forwarding **2012**,		7
51	Parallel Search Trie-Based Scheme for Fast IP Lookup **2007**,		7
50	Indirect Diffused Light Free-Space Optical Communications for Vehicular Networks. *IEEE Communications Letters*, **2019**, 23, 814-817	3.8	6
49	Module Matching Schemes for Input-Queued Clos-Network Packet Switches. *IEEE Communications Letters*, **2007**, 11, 194-196	3.8	6
48	A Method to Measure Packet Processing Time of Hosts Using High-Speed Transmission Lines. *IEEE Systems Journal*, **2015**, 9, 1248-1251	4.3	5
47	Real-time evacuating routing during earthquake using a sensor network in an indoor environment **2015**,		5
46	Scheduling memory access on a distributed cloud storage network **2012**,		5
45	Maximum and Maximal Weight Matching Dispatching Schemes for MSM Clos-Network Packet Switches. *IEICE Transactions on Communications*, **2010**, E93-B, 297-304	0.5	5

44	Combined Input-Crosspoint Buffered Packet Switch with Flexible Access to Crosspoints Buffers **2006**,		5
43	Tracking User Application Activity by using Machine Learning Techniques on Network Traffic **2019**,		4
42	Greedy Algorithm for Minimizing the Cost of Routing Power on a Digital Microgrid. *Energies*, **2019**, 12, 3076	3.1	4
41	Performance Analysis of Clos-Network Packet Switch with Virtual Output Queues. *IEICE Transactions on Communications*, **2011**, E94-B, 3437-3446	0.5	4
40	Comparative Analysis of Energy Use and Greenhouse Gas Emission of Diesel and Electric Trucks for Food Distribution in Gowanus District of New York City. *Frontiers in Big Data*, **2021**, 4, 693820	2.8	4
39	Helix: IP lookup scheme based on helicoidal properties of binary trees. *Computer Networks*, **2015**, 89, 78-89	5.4	3
38	Containing sybil attacks on trust management schemes for peer-to-peer networks **2014**,		3
37	Energy management algorithm for resilient controlled delivery grids **2017**,		3
36	Load-Balanced Combined Input-Crosspoint Buffered Packet Switches. *IEEE Transactions on Communications*, **2011**, 59, 1421-1433	6.9	3
35	Analysis of Space-Space-Space Clos-Network Packet Switch **2009**,		3
34	Re-Configurable Parallel Match Evaluators Applied to Scheduling Schemes for Input-Queued Packet Switches **2009**,		3
33	Bounding virus proliferation in P2P networks with a diverse-parameter trust management scheme. *IEEE Communications Letters*, **2009**, 13, 812-814	3.8	3
32	Concatenating Packets in Variable-Length Input-Queued Packet Switches with Cell-Based and Packet-Based Scheduling **2008**,		3
31	A Split-Central-Buffered Load-Balancing Clos-Network Switch With In-Order Forwarding. *IEEE/ACM Transactions on Networking*, **2019**, 27, 467-476	3.8	3
30	Experimental evaluation of power distribution to reactive loads in a network-controlled delivery grid **2018**,		2
29	**2019**,		2
28	Scheme for Measuring Queueing Delay of a Router Using Probe-Gap Model: The Single-Hop Case. *IEEE Communications Letters*, **2014**, 18, 696-699	3.8	2
27	Evaluation of switching performance of a virtual software router **2012**,		2

26	Minimizing scheduling complexity with a Clos-network space-space-memory (SSM) packet switch **2013**,		2
25	Ternary-Search-Based Scheme to Measure Link Available-Bandwidth in Wired Networks **2010**,		2
24	Scheme to measure One-Way Delay Variation with detection and removal of clock skew **2010**,		2
23	Rule Caching for Packet Classification Support **2008**,		2
22	Distributed Link-State Measurement for Accurate QoS Routing **2006**,		2
21	OSPF-Based Adaptive and Flexible Security-Enhanced QoS Provisioning **2006**,		2
20	Reducing COVID-19 Cases and Deaths by Applying Blockchain in Vaccination Rollout Management.. *IEEE Open Journal of Engineering in Medicine and Biology*, **2021**, 2, 249-255	5.9	2
19	STREAM: Medium Access Control With Station Presence Awareness in Crowded Networks. *IEEE Systems Journal*, **2021**, 1-10	4.3	2
18	Determination of Interrupt-Coalescence Latency of Remote Hosts Through Active Measurement. *IEEE Access*, **2018**, 6, 23019-23033	3.5	2
17	Multi-Depot Drone Path Planning with Collision Avoidance. *IEEE Internet of Things Journal*, **2022**, 1-1	10.7	2
16	SOSMAC: Separated operation states in Medium Access Control for emergency communications on IEEE 802.11-like crowded networks **2017**,		1
15	Finding Efficient and Lower Capacitance Paths for the Transfer of Energy in a Digital Microgrid. *Electronics (Switzerland)*, **2020**, 9, 822	2.6	1
14	A Simulation Study of the Measurement of Queueing Delay Over End-to-End Paths. *IEEE Open Journal of the Computer Society*, **2020**, 1, 1-11	3.6	1
13	TRIDENT: A Load-Balancing Clos-Network Packet Switch With Queues Between Input and Central Stages and In-Order Forwarding. *IEEE Transactions on Communications*, **2019**, 67, 6885-6896	6.9	1
12	Packet classification using rule caching **2013**,		1
11	Reducing Frequency of Request Communications with Pro-Active and Aggregated Power Management for the Controlled Delivery Power Grid **2017**,		1
10	Per-packet load balancing in data center networks **2015**,		1
9	Scheduling for input-queued packet switches by a re-configurable parallel match evaluator. *IEEE Communications Letters*, **2010**, 14, 357-359	3.8	1

8	Coexistence of streaming and packetized data throughout the protocol stack **2009**,		1
7	Method for measuring the packet processing time of Internet workstations with the detection of interrupt coalescence **2016**,		1
6	Delayed Best-Fit Task Scheduling to Reduce Energy Consumption in Cloud Data Centers **2019**,		1
5	The Digital Power Networks: Energy Dissemination Through a Micro-Grid **2018**,		1
4	Estimation of the packet processing time of hosts in the presence of interrupt coalescence. *IEICE Communications Express*, **2015**, 4, 55-60	0.4	
3	Output-based shared-memory crosspoint-buffered packet switch for multicast services. *IEEE Communications Letters*, **2007**, 11, 1001-1003	3.8	
2	Analysis of Matching Dynamics of PIM with Multiple Iterations in an Input-Buffered Packet Switch. *IEICE Transactions on Communications*, **2010**, E93-B, 2176-2179	0.5	
1	Countering Machine-Learning Classification of Applications by Equalizing Network Traffic Statistics. *IEEE Transactions on Network Science and Engineering*, **2021**, 1-1	4.9	