

# Roberto Rojas-Cessa

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Multi-Depot Drone Path Planning with Collision Avoidance. <i>IEEE Internet of Things Journal</i> , <b>2022</b> , 1-1	10.7	2
78	Reducing COVID-19 Cases and Deaths by Applying Blockchain in Vaccination Rollout Management.. <i>IEEE Open Journal of Engineering in Medicine and Biology</i> , <b>2021</b> , 2, 249-255	5.9	2
77	STREAM: Medium Access Control With Station Presence Awareness in Crowded Networks. <i>IEEE Systems Journal</i> , <b>2021</b> , 1-10	4.3	2
76	Correlation of subway turnstile entries and COVID-19 incidence and deaths in New York City. <i>Infectious Disease Modelling</i> , <b>2021</b> , 6, 183-194	15.7	9
75	Comparative Analysis of Energy Use and Greenhouse Gas Emission of Diesel and Electric Trucks for Food Distribution in Gowanus District of New York City. <i>Frontiers in Big Data</i> , <b>2021</b> , 4, 693820	2.8	4
74	Countering Machine-Learning Classification of Applications by Equalizing Network Traffic Statistics. <i>IEEE Transactions on Network Science and Engineering</i> , <b>2021</b> , 1-1	4.9	
73	Finding Efficient and Lower Capacitance Paths for the Transfer of Energy in a Digital Microgrid. <i>Electronics (Switzerland)</i> , <b>2020</b> , 9, 822	2.6	1
72	A Simulation Study of the Measurement of Queueing Delay Over End-to-End Paths. <i>IEEE Open Journal of the Computer Society</i> , <b>2020</b> , 1, 1-11	3.6	1
71	Survey of Saliva Components and Virus Sensors for Prevention of COVID-19 and Infectious Diseases. <i>Biosensors</i> , <b>2020</b> , 11,	5.9	9
70	GAN Tunnel: Network Traffic Steganography by Using GANs to Counter Internet Traffic Classifiers. <i>IEEE Access</i> , <b>2020</b> , 8, 125345-125359	3.5	9
69	How Blockchain Enhances Supply Chain Management: A Survey. <i>IEEE Open Journal of the Computer Society</i> , <b>2020</b> , 1, 230-249	3.6	8
68	Tracking User Application Activity by using Machine Learning Techniques on Network Traffic <b>2019</b> ,		4
67	Indirect Diffused Light Free-Space Optical Communications for Vehicular Networks. <i>IEEE Communications Letters</i> , <b>2019</b> , 23, 814-817	3.8	6
66	<b>2019</b> ,		2
65	TRIDENT: A Load-Balancing Clos-Network Packet Switch With Queues Between Input and Central Stages and In-Order Forwarding. <i>IEEE Transactions on Communications</i> , <b>2019</b> , 67, 6885-6896	6.9	1
64	Greedy Algorithm for Minimizing the Cost of Routing Power on a Digital Microgrid. <i>Energies</i> , <b>2019</b> , 12, 3076	3.1	4
63	Delayed Best-Fit Task Scheduling to Reduce Energy Consumption in Cloud Data Centers <b>2019</b> ,		1

62	Blockchain Implementation for Analysis of Carbon Footprint across Food Supply Chain <b>2019</b> ,		10
61	A Split-Central-Buffered Load-Balancing Clos-Network Switch With In-Order Forwarding. <i>IEEE/ACM Transactions on Networking</i> , <b>2019</b> , 27, 467-476	3.8	3
60	. <i>IEEE Transactions on Vehicular Technology</i> , <b>2018</b> , 67, 1292-1301	6.8	18
59	A Survey on Acquisition, Tracking, and Pointing Mechanisms for Mobile Free-Space Optical Communications. <i>IEEE Communications Surveys and Tutorials</i> , <b>2018</b> , 20, 1104-1123	37.1	111
58	Optimal Positioning of Ground Base Stations in Free-Space Optical Communications for High-Speed Trains. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2018</b> , 19, 1940-1949	6.1	24
57	Integration of alternative energy sources into digital micro-grids. <i>Environmental Progress and Sustainable Energy</i> , <b>2018</b> , 37, 155-164	2.5	8
56	Experimental evaluation of power distribution to reactive loads in a network-controlled delivery grid <b>2018</b> ,		2
55	The Digital Power Networks: Energy Dissemination Through a Micro-Grid <b>2018</b> ,		1
54	Determination of Interrupt-Coalescence Latency of Remote Hosts Through Active Measurement. <i>IEEE Access</i> , <b>2018</b> , 6, 23019-23033	3.5	2
53	Reducing the Number of FSO Base Stations With Dual Transceivers for Next-Generation Ground-to-Train Communications. <i>IEEE Transactions on Vehicular Technology</i> , <b>2018</b> , 67, 11143-11153	6.8	11
52	Provisioning Internet Access Using FSO in High-Speed Rail Networks. <i>IEEE Network</i> , <b>2017</b> , 31, 96-101	11.4	23
51	. <i>IEEE Transactions on Vehicular Technology</i> , <b>2017</b> , 66, 7677-7687	6.8	22
50	SOSMAC: Separated operation states in Medium Access Control for emergency communications on IEEE 802.11-like crowded networks <b>2017</b> ,		1
49	Energy management algorithm for resilient controlled delivery grids <b>2017</b> ,		3
48	Reducing Frequency of Request Communications with Pro-Active and Aggregated Power Management for the Controlled Delivery Power Grid <b>2017</b> ,		1
47	Sensing, calculating, and disseminating evacuating routes during an indoor fire using a sensor and diffusion network <b>2016</b> ,		7
46	Method for measuring the packet processing time of Internet workstations with the detection of interrupt coalescence <b>2016</b> ,		1
45	Schemes for Fast Transmission of Flows in Data Center Networks. <i>IEEE Communications Surveys and Tutorials</i> , <b>2015</b> , 17, 1391-1422	37.1	26

44	Helix: IP lookup scheme based on helicoidal properties of binary trees. <i>Computer Networks</i> , <b>2015</b> , 89, 78-89	5.4	3
43	Scheme to Measure Packet Processing Time of a Remote Host through Estimation of End-Link Capacity. <i>IEEE Transactions on Computers</i> , <b>2015</b> , 64, 205-218	2.5	8
42	Estimation of the packet processing time of hosts in the presence of interrupt coalescence. <i>IEICE Communications Express</i> , <b>2015</b> , 4, 55-60	0.4	
41	A Method to Measure Packet Processing Time of Hosts Using High-Speed Transmission Lines. <i>IEEE Systems Journal</i> , <b>2015</b> , 9, 1248-1251	4.3	5
40	Real-time evacuating routing during earthquake using a sensor network in an indoor environment <b>2015</b> ,		5
39	Per-packet load balancing in data center networks <b>2015</b> ,		1
38	Containing sybil attacks on trust management schemes for peer-to-peer networks <b>2014</b> ,		3
37	Testbed evaluations of a controlled-delivery power grid <b>2014</b> ,		7
36	Scheme for Measuring Queueing Delay of a Router Using Probe-Gap Model: The Single-Hop Case. <i>IEEE Communications Letters</i> , <b>2014</b> , 18, 696-699	3.8	2
35	DAQ: Deadline-Aware Queue scheme for scheduling service flows in data centers <b>2014</b> ,		8
34	Packet classification using rule caching <b>2013</b> ,		1
33	Minimizing scheduling complexity with a Clos-network space-space-memory (SSM) packet switch <b>2013</b> ,		2
32	Management of a smart grid with controlled-delivery of discrete levels of energy <b>2013</b> ,		9
31	Active Scheme to Measure Throughput of Wireless Access Link in Hybrid Wired-Wireless Network. <i>IEEE Wireless Communications Letters</i> , <b>2012</b> , 1, 645-648	5.9	7
30	Scheduling memory access on a distributed cloud storage network <b>2012</b> ,		5
29	MCS: Buffered Clos-network switch with in-sequence packet forwarding <b>2012</b> ,		7
28	Evaluation of switching performance of a virtual software router <b>2012</b> ,		2
27	Task and Server Assignment for Reduction of Energy Consumption in Datacenters <b>2012</b> ,		9

26	Allocation of Discrete Energy on a Cloud-Computing Datacenter Using a Digital Power Grid <b>2012</b> ,		11
25	Non-blocking memory-memory-memory Clos-network packet switch <b>2011</b> ,		15
24	Load-Balanced Combined Input-Crosspoint Buffered Packet Switches. <i>IEEE Transactions on Communications</i> , <b>2011</b> , 59, 1421-1433	6.9	3
23	Memory-memory-memory Clos-network packet switches with in-sequence service <b>2011</b> ,		10
22	Performance Analysis of Clos-Network Packet Switch with Virtual Output Queues. <i>IEICE Transactions on Communications</i> , <b>2011</b> , E94-B, 3437-3446	0.5	4
21	Measurement Scheme for One-Way Delay Variation with Detection and Removal of Clock Skew. <i>ETRI Journal</i> , <b>2010</b> , 32, 854-862	1.4	8
20	Ternary-Search-Based Scheme to Measure Link Available-Bandwidth in Wired Networks <b>2010</b> ,		2
19	Performance of Optical Packet Switches Based on Parametric Wavelength Converters. <i>Journal of Optical Communications and Networking</i> , <b>2010</b> , 2, 558	4.1	17
18	Scheduling for input-queued packet switches by a re-configurable parallel match evaluator. <i>IEEE Communications Letters</i> , <b>2010</b> , 14, 357-359	3.8	1
17	Scheme to measure One-Way Delay Variation with detection and removal of clock skew <b>2010</b> ,		2
16	Maximum and Maximal Weight Matching Dispatching Schemes for MSM Clos-Network Packet Switches. <i>IEICE Transactions on Communications</i> , <b>2010</b> , E93-B, 297-304	0.5	5
15	Task-execution scheduling schemes for network measurement and monitoring. <i>Computer Communications</i> , <b>2010</b> , 33, 124-135	5.1	10
14	Analysis of Matching Dynamics of PIM with Multiple Iterations in an Input-Buffered Packet Switch. <i>IEICE Transactions on Communications</i> , <b>2010</b> , E93-B, 2176-2179	0.5	
13	Analysis of Space-Space-Space Clos-Network Packet Switch <b>2009</b> ,		3
12	Coexistence of streaming and packetized data throughout the protocol stack <b>2009</b> ,		1
11	Re-Configurable Parallel Match Evaluators Applied to Scheduling Schemes for Input-Queued Packet Switches <b>2009</b> ,		3
10	Bounding virus proliferation in P2P networks with a diverse-parameter trust management scheme. <i>IEEE Communications Letters</i> , <b>2009</b> , 13, 812-814	3.8	3
9	Concatenating Packets in Variable-Length Input-Queued Packet Switches with Cell-Based and Packet-Based Scheduling <b>2008</b> ,		3

8	Rule Caching for Packet Classification Support <b>2008</b> ,		2
7	Captured-frame matching schemes for scalable input-queued packet switches. <i>Computer Communications</i> , <b>2007</b> , 30, 2149-2161	5.1	9
6	Module Matching Schemes for Input-Queued Clos-Network Packet Switches. <i>IEEE Communications Letters</i> , <b>2007</b> , 11, 194-196	3.8	6
5	Output-based shared-memory crosspoint-buffered packet switch for multicast services. <i>IEEE Communications Letters</i> , <b>2007</b> , 11, 1001-1003	3.8	
4	Parallel Search Trie-Based Scheme for Fast IP Lookup <b>2007</b> ,		7
3	Distributed Link-State Measurement for Accurate QoS Routing <b>2006</b> ,		2
2	OSPF-Based Adaptive and Flexible Security-Enhanced QoS Provisioning <b>2006</b> ,		2
1	Combined Input-Crosspoint Buffered Packet Switch with Flexible Access to Crosspoints Buffers <b>2006</b> ,		5