Roberto Rojas-Cessa

List of Publications by Year
in descending order

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102 papers	976 citations	687335 13 h-index	552766 26 g-index
102 all docs	102 docs citations	102 times ranked	695 citing authors

#	Article	IF	Citations
1	Multidepot Drone Path Planning With Collision Avoidance. IEEE Internet of Things Journal, 2022, 9, 16297-16307.	8.7	8
2	Orientation of a diffuse reflector for improved coverage in ID-FSOC for vehicular communications. Vehicular Communications, 2022, 36, 100493.	4.0	2
3	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.	2.3	8
4	STREAM: Medium Access Control With Station Presence Awareness in Crowded Networks. IEEE Systems Journal, 2021, , 1-10.	4.6	3
5	Correlation of subway turnstile entries and COVID-19 incidence and deaths in New York City. Infectious Disease Modelling, 2021, 6, 183-194.	1.9	16
6	Indirect Line-Of-Sight Free-Space Optical Communications Using Diffuse Reflection. , 2021, , .		2
7	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.	2.9	8
8	Countering Machine-Learning Classification of Applications by Equalizing Network Traffic Statistics. IEEE Transactions on Network Science and Engineering, 2021, , 1-1.	6.4	4
9	Survey of Saliva Components and Virus Sensors for Prevention of COVID-19 and Infectious Diseases. Biosensors, 2021, 11, 14.	4.7	17
10	GAN Tunnel: Network Traffic Steganography by Using GANs to Counter Internet Traffic Classifiers. IEEE Access, 2020, 8, 125345-125359.	4.2	17
11	How Blockchain Enhances Supply Chain Management: A Survey. IEEE Open Journal of the Computer Society, 2020, 1, 230-249.	7.8	29
12	Finding Efficient and Lower Capacitance Paths for the Transfer of Energy in a Digital Microgrid. Electronics (Switzerland), 2020, 9, 822.	3.1	1
13	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.	7.8	3
14	Identification of User Application by an External Eavesdropper using Machine Learning Analysis on Network Traffic. , 2019, , .		4
15	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.	7.8	2
16	Greedy Algorithm for Minimizing the Cost of Routing Power on a Digital Microgrid. Energies, 2019, 12, 3076.	3.1	8
17	Tracking User Application Activity by using Machine Learning Techniques on Network Traffic. , 2019, , .		7
18	Indirect Diffused Light Free-Space Optical Communications for Vehicular Networks. IEEE Communications Letters, 2019, 23, 814-817.	4.1	13

#	Article	IF	Citations
19	Media Access Schemes for Indirect Diffused Free-Space Optical Networks. , 2019, , .		2
20	Delayed Best-Fit Task Scheduling to Reduce Energy Consumption in Cloud Data Centers. , 2019, , .		3
21	Blockchain Implementation for Analysis of Carbon Footprint across Food Supply Chain. , 2019, , .		26
22	A Split-Central-Buffered Load-Balancing Clos-Network Switch With In-Order Forwarding. IEEE/ACM Transactions on Networking, 2019, 27, 467-476.	3.8	4
23	Reducing the Impact of Handovers in Ground-to-Train Free Space Optical Communications. IEEE Transactions on Vehicular Technology, 2018, 67, 1292-1301.	6.3	27
24	A Survey on Acquisition, Tracking, and Pointing Mechanisms for Mobile Free-Space Optical Communications. IEEE Communications Surveys and Tutorials, 2018, 20, 1104-1123.	39.4	209
25	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.	8.0	38
26	Integration of alternative energy sources into digital microâ€grids. Environmental Progress and Sustainable Energy, 2018, 37, 155-164.	2.3	9
27	Evacuating Routes in Indoor-Fire Scenarios with Selection of Safe Exits on Known and Unknown Buildings Using Machine Learning. , 2018, , .		3
28	The Digital Power Networks: Energy Dissemination Through a Micro-Grid. , 2018, , .		3
29	An Energy Packet Switch for Digital Power Grids. , 2018, , .		4
30	Determination of Interrupt-Coalescence Latency of Remote Hosts Through Active Measurement. IEEE Access, 2018, 6, 23019-23033.	4.2	3
31	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.	6.3	18
32	Experimental evaluation of power distribution to reactive loads in a network-controlled delivery grid. , 2018, , .		2
33	Provisioning Internet Access Using FSO in High-Speed Rail Networks. IEEE Network, 2017, 31, 96-101.	6.9	35
34	On Divergence-Angle Efficiency of a Laser Beam in Free-Space Optical Communications for High-Speed Trains. IEEE Transactions on Vehicular Technology, 2017, 66, 7677-7687.	6.3	43
35	SOSMAC: Separated operation states in Medium Access Control for emergency communications on IEEE 802.11-like crowded networks. , 2017, , .		2
36	SRA: Slot reservation announcement scheme for medium access control of IEEE 802.11 crowded networks in emergency scenarios. , 2017, , .		3

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37	Energy management algorithm for resilient controlled delivery grids. , 2017, , .		5
38	Reducing Frequency of Request Communications with Pro-Active and Aggregated Power Management for the Controlled Delivery Power Grid. , 2017, , .		1
39	Lowest-cost network node identification for data caching for information centric networks. , 2016, , .		1
40	Disjoint Superposition for Reduction of Conjoined Prefixes in IP Lookup for Actual IPv6 Forwarding Tables. , 2016, , .		0
41	Method for measuring the packet processing time of Internet workstations with the detection of interrupt coalescence. , 2016, , .		1
42	Sensing, calculating, and disseminating evacuating routes during an indoor fire using a sensor and diffusion network. , 2016, , .		14
43	Estimation of the packet processing time of hosts in the presence of interrupt coalescence. IEICE Communications Express, 2015, 4, 55-60.	0.4	0
44	A Method to Measure Packet Processing Time of Hosts Using High-Speed Transmission Lines. IEEE Systems Journal, 2015, 9, 1248-1251.	4.6	7
45	An experimental study of small world network model for wireless networks. , 2015, , .		0
46	Real-time evacuating routing during earthquake using a sensor network in an indoor environment. , 2015, , .		6
47	Per-packet load balancing in data center networks. , 2015, , .		4
48	Schemes for Fast Transmission of Flows in Data Center Networks. IEEE Communications Surveys and Tutorials, 2015, 17, 1391-1422.	39.4	39
49	Helix: IP lookup scheme based on helicoidal properties of binary trees. Computer Networks, 2015, 89, 78-89.	5.1	7
50	Scheme to Measure Packet Processing Time of a Remote Host through Estimation of End-Link Capacity. IEEE Transactions on Computers, 2015, 64, 205-218.	3.4	10
51	Scheme for Measuring Queueing Delay of a Router Using Probe-Gap Model: The Single-Hop Case. IEEE Communications Letters, 2014, 18, 696-699.	4.1	4
52	DAQ: Deadline-Aware Queue scheme for scheduling service flows in data centers. , 2014, , .		10
53	High-resolution hardware-based packet capture with higher-layer pass-through on NetFPGA card. , 2014, , .		1
54	Containing sybil attacks on trust management schemes for peer-to-peer networks. , 2014, , .		3

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55	Testbed evaluations of a controlled-delivery power grid. , 2014, , .		10
56	Packet classification using rule caching. , 2013, , .		3
57	Minimizing scheduling complexity with a Clos-network space-space-memory (SSM) packet switch. , 2013, , .		2
58	Management of a smart grid with controlled-delivery of discrete levels of energy. , 2013, , .		12
59	Allocation of Discrete Energy on a Cloud-Computing Datacenter Using a Digital Power Grid. , 2012, , .		19
60	Active Scheme to Measure Throughput of Wireless Access Link in Hybrid Wired-Wireless Network. IEEE Wireless Communications Letters, 2012, 1, 645-648.	5.0	10
61	Scheduling memory access on a distributed cloud storage network. , 2012, , .		5
62	MCS: Buffered Clos-network switch with in-sequence packet forwarding. , 2012, , .		8
63	Evaluation of switching performance of a virtual software router. , 2012, , .		2
64	Task and Server Assignment for Reduction of Energy Consumption in Datacenters. , 2012, , .		14
65	Memory-memory-memory Clos-network packet switches with in-sequence service. , 2011, , .		12
66	Experimental performance evaluation of a virtual software router. , 2011, , .		0
67	Non-blocking memory-memory-memory Clos-network packet switch. , 2011, , .		18
68	Load-Balanced Combined Input-Crosspoint Buffered Packet Switches. IEEE Transactions on Communications, 2011, 59, 1421-1433.	7.8	4
69	Performance Analysis of Clos-Network Packet Switch with Virtual Output Queues. IEICE Transactions on Communications, 2011, E94-B, 3437-3446.	0.7	5
70	Maximum and Maximal Weight Matching Dispatching Schemes for MSM Clos-Network Packet Switches. IEICE Transactions on Communications, 2010, E93-B, 297-304.	0.7	6
71	Task-execution scheduling schemes for network measurement and monitoring. Computer Communications, 2010, 33, 124-135.	5.1	14
72	Measurement Scheme for One-Way Delay Variation with Detection and Removal of Clock Skew. ETRI Journal, 2010, 32, 854-862.	2.0	14

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73	Ternary-Search-Based Scheme to Measure Link Available-Bandwidth in Wired Networks. , 2010, , .		4
74	Schemes to measure available bandwidth and link capacity with ternary search and compound probe for packet networks. , 2010, , .		0
75	Performance of Optical Packet Switches Based on Parametric Wavelength Converters. Journal of Optical Communications and Networking, 2010, 2, 558.	4.8	23
76	Scheduling for input-queued packet switches by a re-configurable parallel match evaluator. IEEE Communications Letters, 2010, 14, 357-359.	4.1	1
77	Scheme to measure One-Way Delay Variation with detection and removal of clock skew. , 2010, , .		3
78	Maximal weight matching scheme with frame occupancy-based for input-queued packet switches. , 2010, , .		1
79	Analysis of Matching Dynamics of PIM with Multiple Iterations in an Input-Buffered Packet Switch. IEICE Transactions on Communications, 2010, E93-B, 2176-2179.	0.7	1
80	Proactive Routing for Congestion Avoidance in Network Recovery under Single-Link Failures. , 2009, , .		0
81	Analysis of Space-Space-Space Clos-Network Packet Switch. , 2009, , .		3
82	Coexistence of streaming and packetized data throughout the protocol stack. , 2009, , .		1
83	Mitigation of malware proliferation in P2P networks using Double-layer Dynamic Trust (DDT) management scheme. , 2009, , .		3
84	Re-Configurable Parallel Match Evaluators Applied to Scheduling Schemes for Input-Queued Packet Switches. , 2009, , .		7
85	Performance analysis on dynamics of parallel iterative matching in an input-buffered switch. , 2009, , .		0
86	Bounding virus proliferation in P2P networks with a diverse-parameter trust management scheme. IEEE Communications Letters, 2009, 13, 812-814.	4.1	3
87	Concatenating Packets in Variable-Length Input-Queued Packet Switches with Cell-Based and Packet-Based Scheduling. , 2008, , .		6
88	Rule Caching for Packet Classification Support. , 2008, , .		4
89	Routing schemes for network recovery under link and node failures. , 2008, , .		4
90	Packet Switching and Replication of Multicast Traffic by Crosspoint Buffered Packet Switches. , 2007, , .		1

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91	Module Matching Schemes for Input-Queued Clos-Network Packet Switches. IEEE Communications Letters, 2007, 11, 194-196.	4.1	11
92	Output-based shared-memory crosspoint-buffered packet switch for multicast services. IEEE Communications Letters, 2007, 11, 1001-1003.	4.1	0
93	Parallel Search Trie-Based Scheme for Fast IP Lookup. , 2007, , .		10
94	Descending-Order Clique-Based Task Scheduling for Active Measurements. , 2007, , .		1
95	Captured-frame matching schemes for scalable input-queued packet switches. Computer Communications, 2007, 30, 2149-2161.	5.1	13
96	OSPF-Based Adaptive and Flexible Security-Enhanced QoS Provisioning. , 2006, , .		4
97	NXG05-5: Shared-Memory Combined Input-Crosspoint Buffered Packet Switch for Differentiated Services. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	2
98	Combined Input-Crosspoint Buffered Packet Switch with Flexible Access to Crosspoints Buffers. , 2006, , .		8
99	Framed Round-Robin Arbitration with Explicit Feedback Control for Combined Input-Crosspoint Buffered Packet Switches. , 2006, , .		3
100	NXG01-1: Improving the Accuracy of EEAC-SV with Smart Packet Marking. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	0
101	Distributed Link-State Measurement for Accurate QoS Routing. , 2006, , .		2
102	A Control Theoretic Analysis of Arbitration and Matching Schemes for Packet Switches. , 2006, , .		0