

Renato Lo Cigno

List of Publications by Year in descending order

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154
papers

2,238
citations

331670

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330143

37
g-index

157
all docs

157
docs citations

157
times ranked

1580
citing authors

#	ARTICLE	IF	CITATIONS
1	AntiSense: Standard-compliant CSI obfuscation against unauthorized Wi-Fi sensing. Computer Communications, 2022, 185, 92-103.	5.1	7
2	On the properties of device-free multi-point CSI localization and its obfuscation. Computer Communications, 2022, 189, 67-78.	5.1	3
3	On Cost-Effective, Reliable Coverage for LoS Communications in Urban Areas. IEEE Transactions on Network and Service Management, 2022, 19, 2767-2779.	4.9	6
4	V-Edge: Virtual Edge Computing as an Enabler for Novel Microservices and Cooperative Computing. IEEE Network, 2022, 36, 24-31.	6.9	11
5	On the Implementation of Location Obfuscation in openwifi and Its Performance. , 2022, , .		3
6	Cooperative driving: A comprehensive perspective, the role of communications, and its potential development. Computer Communications, 2022, 193, 82-93.	5.1	6
7	A Critical Assessment of C-V2X Resource Allocation Scheme for Platooning Applications. , 2021, , .		13
8	Non Intrusive Wi-Fi CSI Obfuscation Against Active Localization Attacks. , 2021, , .		4
9	WIP: Analysis of Feasible Topologies for Backhaul Mesh Networks. , 2021, , .		1
10	A Blockchain Definition to Clarify its Role for the Internet of Things. , 2021, , .		8
11	Passive Device-Free Multi-Point CSI Localization and Its Obfuscation with Randomized Filtering. , 2021, , .		4
12	On the Progressive Introduction of Heterogeneous CACC Capabilities. , 2021, , .		1
13	Infective flooding in low-duty-cycle networks, properties and bounds. Computer Communications, 2020, 151, 216-226.	5.1	1
14	Exact Distributed Load Centrality Computation: Algorithms, Convergence, and Applications to Distance Vector Routing. IEEE Transactions on Parallel and Distributed Systems, 2020, 31, 1693-1706.	5.6	4
15	An Experimental Study of CSI Management to Preserve Location Privacy. , 2020, , .		10
16	Modeling Slipstreaming Effects in Vehicle Platoons. , 2020, , .		0
17	Towards scalable Community Networks topologies. Ad Hoc Networks, 2019, 94, 101949.	5.5	6
18	The joint network/control design of platooning algorithms can enforce guaranteed safety constraints. Ad Hoc Networks, 2019, 94, 101962.	5.5	23

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19	Markov-modulated Models to Estimate the Age of Information in Cooperative Driving. , 2019, , .		10
20	Cooperative Driving and the Tactile Internet. Proceedings of the IEEE, 2019, 107, 436-446.	21.3	50
21	Platooning Maneuvers in Vehicular Networks: A Distributed and Consensus-Based Approach. IEEE Transactions on Intelligent Vehicles, 2019, 4, 59-72.	12.7	68
22	On the Properties of Infective Flooding in Low-Duty-Cycle Networks. , 2019, , .		1
23	RoRoute: Tools to experiment with routing protocols in WMNs. , 2018, , .		1
24	Proof of networking: Can blockchains boost the next generation of distributed networks?. , 2018, , .		10
25	A LiDAR Error Model for Cooperative Driving Simulations. , 2018, , .		9
26	Improving Routing Convergence With Centrality: Theory and Implementation of Pop-Routing. IEEE/ACM Transactions on Networking, 2018, 26, 2216-2229.	3.8	10
27	Where have all the MPRs gone? On the optimal selection of Multi-Point Relays. Ad Hoc Networks, 2018, 77, 69-83.	5.5	16
28	Centrality-Based Route Recovery in Wireless Mesh Networks. , 2018, , .		1
29	Energy Saving Through Traffic Profiling in Self-Optimizing Optical Networks. IEEE Systems Journal, 2017, 11, 752-761.	4.6	1
30	<i>Freeze'nSense</i>: estimation of performance isolation in cloud environments. Software - Practice and Experience, 2017, 47, 831-847.	3.6	1
31	On the feasibility of collision detection in full-duplex 802.11 radio. , 2017, , .		1
32	A dynamic and autonomous channel selection strategy for interference avoidance in 802.11. , 2017, , .		7
33	Optimized P2P streaming for wireless distributed networks. Pervasive and Mobile Computing, 2017, 42, 335-350.	3.3	6
34	On the Use of Eigenvector Centrality for Cooperative Streaming. IEEE Communications Letters, 2017, 21, 1953-1956.	4.1	12
35	Let's talk in groups: A distributed bursting scheme for cluster-based vehicular applications. Vehicular Communications, 2017, 8, 2-12.	4.0	5
36	A Consensus-Based Approach for Platooning with Intervehicular Communications and Its Validation in Realistic Scenarios. IEEE Transactions on Vehicular Technology, 2017, 66, 1985-1999.	6.3	151

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37	Communication-based collision avoidance between vulnerable road users and cars. , 2017, , .		8
38	A joint network/control design for cooperative automatic driving. , 2017, , .		9
39	Augustus. , 2016, , .		14
40	Pop-routing: Centrality-based tuning of control messages for faster route convergence. , 2016, , .		13
41	On the Computation of Centrality Metrics for Network Security in Mesh Networks. , 2016, , .		15
42	Distributed EDCA bursting. , 2016, , .		4
43	Optimized cooperative streaming in wireless mesh networks. , 2016, , .		3
44	Enabling Situation Awareness at Intersections for IVC Congestion Control Mechanisms. IEEE Transactions on Mobile Computing, 2016, 15, 1674-1685.	5.8	27
45	Jerk Beacons: A dynamic approach to platooning. , 2015, , .		27
46	A consensus-based approach for platooning with inter-vehicular communications. , 2015, , .		65
47	Toward Communication Strategies for Platooning: Simulative and Experimental Evaluation. IEEE Transactions on Vehicular Technology, 2015, 64, 5411-5423.	6.3	89
48	How Shadowing Hurts Vehicular Communications and How Dynamic Beacons Can Help. IEEE Transactions on Mobile Computing, 2015, 14, 1411-1421.	5.8	104
49	Live Video Streaming for Community Networks, Experimenting with PeerStreamer on the Ninux Community. , 2015, , .		3
50	Improving P2P streaming in Wireless Community Networks. Computer Networks, 2015, 93, 389-403.	5.1	12
51	A week in the life of three large Wireless Community Networks. Ad Hoc Networks, 2015, 24, 175-190.	5.5	44
52	Neighborhood Filtering Strategies for Overlay Construction in P2P-TV Systems: Design and Experimental Comparison. IEEE/ACM Transactions on Networking, 2015, 23, 741-754.	3.8	13
53	Fairness kills safety: A comparative study for intersection assistance applications. , 2014, , .		6
54	Energy Saving Through Traffic Profiling and Prediction in Self-Optimizing Optical Networks. , 2014, , .		4

#	ARTICLE	IF	CITATIONS
55	Urban wireless community networks. , 2014, , .		2
56	Towards inter-vehicle communication strategies for platooning support. , 2014, , .		36
57	Improving P2P streaming in community-lab through local strategies. , 2014, , .		6
58	Betweenness estimation in OLSR-based multi-hop networks for distributed filtering. Journal of Computer and System Sciences, 2014, 80, 670-685.	1.2	9
59	Profiling cloud applications with hardware performance counters. , 2014, , .		8
60	A Vehicular Networking Perspective on Estimating Vehicle Collision Probability at Intersections. IEEE Transactions on Vehicular Technology, 2014, 63, 1802-1812.	6.3	72
61	Supporting platooning maneuvers through IVC: An initial protocol analysis for the JOIN maneuver. , 2014, , .		50
62	Live P2P streaming in CommunityLab: Experience and insights. , 2014, , .		3
63	Proactive restoration of slow-failures in optical networks. , 2014, , .		0
64	Waterwall: a cooperative, distributed firewall for wireless mesh networks. Eurasip Journal on Wireless Communications and Networking, 2013, 2013, .	2.4	5
65	Protocol independent multicast: From wired to wireless networks. , 2013, , .		1
66	Pullcast: Peer-assisted video multicasting for wireless mesh networks. , 2013, , .		4
67	How shadowing hurts vehicular communications and how dynamic beaconing can help. , 2013, , .		38
68	Automatic Emergency Braking: Realistic Analysis of Car Dynamics and Network Performance. IEEE Transactions on Vehicular Technology, 2013, 62, 4150-4161.	6.3	49
69	Short paper: Vehicle shadowing distribution depends on vehicle type: Results of an experimental study. , 2013, , .		13
70	Quality-of-Experience Driven Acceleration of Thin Client Connections. , 2013, , .		3
71	A simulation tool for automated platooning in mixed highway scenarios. Mobile Computing and Communications Review, 2013, 16, 46-49.	1.7	7
72	A Downlink Load Control Scheme with a Dynamic Load Threshold and Virtual Coverage Management for Two-Tier Femtocell Networks. KSII Transactions on Internet and Information Systems, 2013, 7, 2597-2615.	0.3	1

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73	To crash or not to crash: Estimating its likelihood and potentials of beacon-based IVC systems. , 2012, , .		20
74	Classification of SIP messages by a syntax filter and SVMs. , 2012, , .		8
75	A simulation tool for automated platooning in mixed highway scenarios. , 2012, , .		18
76	A behavioral first order CPU performance model for clouds' management. , 2012, , .		4
77	Experimental comparison of neighborhood filtering strategies in unstructured P2P-TV systems. , 2012, , .		12
78	Improving mesh-agnostic client announcement in B.A.T.M.A.N.-advanced. , 2012, , .		1
79	Simulation of 802.11 PHY/MAC: The quest for accuracy and efficiency. , 2012, , .		6
80	Privacy in the pervasive era: A distributed firewall approach. , 2012, , .		0
81	On the Use of SVMs to Detect Anomalies in a Stream of SIP Messages. , 2012, , .		10
82	How to reduce and stabilize MPR sets in OLSR networks. , 2012, , .		17
83	Measuring and reducing the impact of the operating system kernel on end-to-end latencies in synchronous packet switched networks. Software - Practice and Experience, 2012, 42, 1315-1330.	3.6	2
84	Planning data transfers in grids: a multi-service queueing approach. Concurrency Computation Practice and Experience, 2012, 24, 407-422.	2.2	3
85	Untethered local communications: From wireless access to social glue. , 2011, , .		2
86	Architecture of a network-aware P2P-TV application: the NAPA-WINE approach. IEEE Communications Magazine, 2011, 49, 154-163.	6.1	31
87	Collusion in peer-to-peer systems. Computer Networks, 2011, 55, 3517-3532.	5.1	29
88	Security and privacy issues in P2P streaming systems: A survey. Peer-to-Peer Networking and Applications, 2011, 4, 75-91.	3.9	38
89	Emergency braking. , 2011, , .		8
90	On the Uplink Performance of TCP in Multi-rate 802.11 WLANs. Lecture Notes in Computer Science, 2011, , 368-378.	1.3	3

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91	Effects of P2P Streaming on Video Quality. , 2010, , .		13
92	Transmission issues for HDTV satellite systems. European Transactions on Telecommunications, 2010, 5, 483-494.	1.2	0
93	Design and implementation of a generic library for P2P streaming. , 2010, , .		7
94	Modeling Botnets and Epidemic Malware. , 2010, , .		13
95	Robust Scheduling of Video Streams in Network-Aware P2P Applications. , 2010, , .		5
96	Delay-Aware Push/Pull Protocols for Live Video Streaming in P2P Systems. , 2010, , .		19
97	Deadline-Based Differentiation in P2P Streaming. , 2010, , .		2
98	Network Friendly P2P-TV: The Napa-Wine Approach. , 2010, , .		1
99	IPsec-Based Anonymous Networking: A Working Implementation. , 2009, , .		1
100	Simulation of SPIT Filtering: Quantitative Evaluation of Parameter Tuning. , 2009, , .		4
101	Peer-to-Peer beyond file sharing: Where are P2P systems going?. , 2009, , .		1
102	Push/Pull Protocols for Streaming in P2P Systems. , 2009, , .		4
103	SESAM: A semi-synchronous, energy savvy, application-aware MAC. , 2009, , .		4
104	Scheduling P2P multimedia streams: Can we achieve performance and robustness?. , 2009, , .		3
105	On the Effects of Overlay Localization on P2P Networks. , 2009, , .		0
106	SSSim: a Simple and Scalable Simulator for P2P Streaming Systems. , 2009, , .		7
107	Tunable laser-based design and analysis for fractional lambda switches. IEEE Transactions on Communications, 2008, 56, 957-967.	7.8	8
108	Cooperative Synchronous Broadcasting in Infrastructure-to-Vehicles Networks. , 2008, , .		10

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109	Route Stabilization in Infrastructured Wireless Mesh Networks: an OLSRD Based Solution. , 2008, , .		2
110	Stochastic Graph Processes for Performance Evaluation of Content Delivery Applications in Overlay Networks. IEEE Transactions on Parallel and Distributed Systems, 2008, 19, 247-261.	5.6	17
111	On Some Fundamental Properties of P2P Push/Pull Protocols. , 2008, , .		20
112	Traffic Flow Confidentiality in IPsec: Protocol and Implementation. , 2008, , 311-324.		12
113	Control and optimisation of HCCA 802.11e access scheduling. , 2007, , .		2
114	Traffic masking in IPsec: architecture and implementation. , 2007, , .		4
115	Welcome from the Chairs. , 2007, , .		0
116	Modified Algorithms for Multilevel GRSB Protocol. , 2007, , .		3
117	Graph Based Analysis of Mesh Overlay Streaming Systems. IEEE Journal on Selected Areas in Communications, 2007, 25, 1667-1677.	14.0	25
118	Overlay architectures for file distribution: Fundamental performance analysis for homogeneous and heterogeneous cases. Computer Networks, 2007, 51, 901-917.	5.1	20
119	Graph Based Modeling of P2P Streaming Systems. Lecture Notes in Computer Science, 2007, , 594-605.	1.3	10
120	Design and Analysis of Tunable Laser-Based Fractional I Switching (FIS). , 2006, , .		3
121	Dynamic grooming in IP over optical networks based on the overlay architecture. Optical Switching and Networking, 2006, 3, 118-133.	2.0	7
122	Internet Wireless Access: 802.11 and Beyond. Mobile Networks and Applications, 2006, 11, 213-214.	3.3	0
123	QRP03-2: Fast Stochastic Analysis of P2P File Distribution Architectures. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	1
124	QRP02-1: Content Delivery in Overlay Networks: a Stochastic Graph Processes Perspective. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	2
125	Measuring IP and TCP behavior on edge nodes with Tstat. Computer Networks, 2005, 47, 1-21.	5.1	48
126	Analytical computation of completion time distributions of short-lived TCP connections. Performance Evaluation, 2005, 59, 179-197.	1.2	3

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127	Markov models of internet traffic and a new hierarchical MMPP model. Computer Communications, 2005, 28, 1835-1851.	5.1	85
128	Wireless LANs: From WarChalking to Open Access Networks. Mobile Networks and Applications, 2005, 10, 275-287.	3.3	30
129	Sender-Side TCP Modifications: Performance Analysis and Design Guidelines. Cluster Computing, 2005, 8, 35-45.	5.0	2
130	A Performance Model for Multimedia Services Provisioning on Network Interfaces. Lecture Notes in Computer Science, 2005, , 286-299.	1.3	2
131	Modeling short-lived TCP connections with open multiclass queuing networks. Computer Networks, 2004, 44, 153-176.	5.1	14
132	Closed Queueing Network Models of Interacting Long-Lived TCP Flows. IEEE/ACM Transactions on Networking, 2004, 12, 300-311.	3.8	27
133	A new class of QoS routing strategies based on network graph reduction. Computer Networks, 2003, 41, 475-487.	5.1	10
134	TStat: TCP STATistic and Analysis Tool. Lecture Notes in Computer Science, 2003, , 145-157.	1.3	20
135	TCP-SACK Analysis and Improvement through OMQN Models. Lecture Notes in Computer Science, 2003, , 405-418.	1.3	1
136	Performance of Transport Protocols over ATM Networks. Simulation, 2002, 78, 219-230.	1.8	0
137	Handovers in wireless ATM networks: in-band signaling protocols and performance analysis. IEEE Transactions on Wireless Communications, 2002, 1, 87-100.	9.2	6
138	Robust rate control for integrated services packet networks. IEEE/ACM Transactions on Networking, 2002, 10, 644-652.	3.8	54
139	Generalized window advertising for TCP congestion control. European Transactions on Telecommunications, 2002, 13, 549-562.	1.2	24
140	Efficient estimation of call blocking probabilities in cellular mobile telephony networks with customer retrials. IEEE Journal on Selected Areas in Communications, 2001, 19, 332-346.	14.0	51
141	Local and Global Handovers Based on In-Band Signaling in Wireless ATM Networks. Wireless Networks, 2001, 7, 425-436.	3.0	6
142	Load-balancing solutions for static routing schemes in ATM networks. Computer Networks, 2000, 34, 169-180.	5.1	3
143	Title is missing!. Telecommunication Systems, 2000, 15, 53-62.	2.5	7
144	Modeling window based congestion control protocols with many flows. Performance Evaluation, 1999, 36-37, 289-306.	1.2	15

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145	A Markovian model for TCP over ATM. Telecommunication Systems, 1999, 12, 341-368.	2.5	8
146	An integrated simulation environment for the analysis of ATM networks at multiple time scales. Computer Networks, 1998, 29, 2165-2185.	1.0	8
147	Control of ATM networks: fragility and robustness issues. , 1998, , .		11
148	Local and global handovers for mobility management in wireless ATM networks. IEEE Personal Communications, 1997, 4, 16-24.	3.8	45
149	ATM simulation with CLASS. Performance Evaluation, 1995, 24, 137-159.	1.2	24
150	Deflection network: Principles, implementation, services. European Transactions on Telecommunications, 1992, 3, 195-206.	1.2	5
151	On-line routing optimization for MPLS-based IP networks. , 0, , .		3
152	Dynamic grooming in IP over WDM networks: a study with realistic traffic based on GANCLES simulation package. , 0, , .		9
153	Stochastic Analysis of Chain Based File Distribution Architectures with Heterogeneous Peers. , 0, , .		1
154	Wavelength Swapping using Tunable Lasers for Fractional λ Switching. , 0, , .		1