Renato Lo Cigno

List of Publications by Year
in descending order

154 papers	2,238 citations	331670 21 h-index	330143 37 g-index
157 all docs	157 docs citations	157 times ranked	1580 citing authors

#	Article	IF	Citations
1	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
2	How Shadowing Hurts Vehicular Communications and How Dynamic Beaconing Can Help. IEEE Transactions on Mobile Computing, 2015, 14, 1411-1421.	5.8	104
3	Toward Communication Strategies for Platooning: Simulative and Experimental Evaluation. IEEE Transactions on Vehicular Technology, 2015, 64, 5411-5423.	6.3	89
4	Markov models of internet traffic and a new hierarchical MMPP model. Computer Communications, 2005, 28, 1835-1851.	5.1	85
5	A Vehicular Networking Perspective on Estimating Vehicle Collision Probability at Intersections. IEEE Transactions on Vehicular Technology, 2014, 63, 1802-1812.	6.3	72
6	Platooning Maneuvers in Vehicular Networks: A Distributed and Consensus-Based Approach. IEEE Transactions on Intelligent Vehicles, 2019, 4, 59-72.	12.7	68
7	A consensus-based approach for platooning with inter-vehicular communications. , 2015, , .		65
8	Robust rate control for integrated services packet networks. IEEE/ACM Transactions on Networking, 2002, 10, 644-652.	3.8	54
9	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
10	Supporting platooning maneuvers through IVC: An initial protocol analysis for the JOIN maneuver. , 2014, , .		50
11	Cooperative Driving and the Tactile Internet. Proceedings of the IEEE, 2019, 107, 436-446.	21.3	50
12	Automatic Emergency Braking: Realistic Analysis of Car Dynamics and Network Performance. IEEE Transactions on Vehicular Technology, 2013, 62, 4150-4161.	6.3	49
13	Measuring IP and TCP behavior on edge nodes with Tstat. Computer Networks, 2005, 47, 1-21.	5.1	48
14	Local and global handovers for mobility management in wireless ATM networks. IEEE Personal Communications, 1997, 4, 16-24.	3.8	45
15	A week in the life of three large Wireless Community Networks. Ad Hoc Networks, 2015, 24, 175-190.	5.5	44
16	Security and privacy issues in P2P streaming systems: A survey. Peer-to-Peer Networking and Applications, 2011, 4, 75-91.	3.9	38
17	How shadowing hurts vehicular communications and how dynamic beaconing can help. , 2013, , .		38
18	Towards inter-vehicle communication strategies for platooning support. , 2014, , .		36

#	ARTICLE	IF	CITATIONS
19	Architecture of a network-aware P2P-TV application: the NAPA-WINE approach. IEEE Communications Magazine, 2011, 49, 154-163.	6.1	31
20	Wireless LANs: From WarChalking to Open Access Networks. Mobile Networks and Applications, 2005, 10, 275-287.	3.3	30
21	Collusion in peer-to-peer systems. Computer Networks, 2011, 55, 3517-3532.	5.1	29
22	Closed Queueing Network Models of Interacting Long-Lived TCP Flows. IEEE/ACM Transactions on Networking, 2004, 12, 300-311.	3.8	27
23	Jerk Beaconing: A dynamic approach to platooning. , 2015, , .		27
24	Enabling Situation Awareness at Intersections for IVC Congestion Control Mechanisms. IEEE Transactions on Mobile Computing, 2016, 15, 1674-1685.	5.8	27
25	Graph Based Analysis of Mesh Overlay Streaming Systems. IEEE Journal on Selected Areas in Communications, 2007, 25, 1667-1677.	14.0	25
26	ATM simulation with CLASS. Performance Evaluation, 1995, 24, 137-159.	1.2	24
27	Generalized window advertising for TCP congestion control. European Transactions on Telecommunications, 2002, 13, 549-562.	1.2	24
28	The joint network/control design of platooning algorithms can enforce guaranteed safety constraints. Ad Hoc Networks, 2019, 94, 101962.	5.5	23
29	Overlay architectures for file distribution: Fundamental performance analysis for homogeneous and heterogeneous cases. Computer Networks, 2007, 51, 901-917.	5.1	20
30	On Some Fundamental Properties of P2P Push/Pull Protocols. , 2008, , .		20
31	To crash or not to crash: Estimating its likelihood and potentials of beacon-based IVC systems. , 2012, , .		20
32	TStat: TCP STatistic and Analysis Tool. Lecture Notes in Computer Science, 2003, , 145-157.	1.3	20
33	Delay-Aware Push/Pull Protocols for Live Video Streaming in P2P Systems. , 2010, , .		19
34	A simulation tool for automated platooning in mixed highway scenarios. , 2012, , .		18
35	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
36	How to reduce and stabilize MPR sets in OLSR networks. , 2012, , .		17

#	ARTICLE	IF	CITATIONS
37	Where have all the MPRs gone? On the optimal selection of Multi-Point Relays. Ad Hoc Networks, 2018, 77, 69-83.	5.5	16
38	Modeling window based congestion control protocols with many flows. Performance Evaluation, 1999, 36-37, 289-306.	1.2	15
39	On the Computation of Centrality Metrics for Network Security in Mesh Networks. , 2016, , .		15
40	Modeling short-lived TCP connections with open multiclass queuing networks. Computer Networks, 2004, 44, 153-176.	5.1	14
41	Augustus. , 2016, , .		14
42	Effects of P2P Streaming on Video Quality. , 2010, , .		13
43	Modeling Botnets and Epidemic Malware. , 2010, , .		13
44	Short paper: Vehicle shadowing distribution depends on vehicle type: Results of an experimental study. , 2013, , .		13
45	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
46	Pop-routing: Centrality-based tuning of control messages for faster route convergence. , 2016, , .		13
47	A Critical Assessment of C-V2X Resource Allocation Scheme for Platooning Applications. , 2021, , .		13
48	Experimental comparison of neighborhood filtering strategies in unstructured P2P-TV systems. , 2012, , .		12
49	Improving P2P streaming in Wireless Community Networks. Computer Networks, 2015, 93, 389-403.	5.1	12
50	On the Use of Eigenvector Centrality for Cooperative Streaming. IEEE Communications Letters, 2017, 21, 1953-1956.	4.1	12
51	Traffic Flow Confidentiality in IPsec: Protocol and Implementation. , 2008, , 311-324.		12
52	Control of ATM networks: fragility and robustness issues. , 1998, , .		11
53	V-Edge: Virtual Edge Computing as an Enabler for Novel Microservices and Cooperative Computing. IEEE Network, 2022, 36, 24-31.	6.9	11
54	A new class of QoS routing strategies based on network graph reduction. Computer Networks, 2003, 41, 475-487.	5.1	10

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55	Cooperative Synchronous Broadcasting in Infrastructure-to-Vehicles Networks. , 2008, , .		10
56	On the Use of SVMs to Detect Anomalies in a Stream of SIP Messages. , 2012, , .		10
57	Proof of networking: Can blockchains boost the next generation of distributed networks?. , 2018, , .		10
58	Improving Routing Convergence With Centrality: Theory and Implementation of Pop-Routing. IEEE/ACM Transactions on Networking, 2018, 26, 2216-2229.	3.8	10
59	Markov-modulated Models to Estimate the Age of Information in Cooperative Driving. , 2019, , .		10
60	Graph Based Modeling of P2P Streaming Systems. Lecture Notes in Computer Science, 2007, , 594-605.	1.3	10
61	An Experimental Study of CSI Management to Preserve Location Privacy. , 2020, , .		10
62	Dynamic grooming in IP over WDM networks: a study with realistic traffic based on GANCLES simulation package. , 0, , .		9
63	Betweenness estimation in OLSR-based multi-hop networks for distributed filtering. Journal of Computer and System Sciences, 2014, 80, 670-685.	1.2	9
64	A joint network/control design for cooperative automatic driving. , 2017, , .		9
65	A LiDAR Error Model for Cooperative Driving Simulations. , 2018, , .		9
66	An integrated simulation environment for the analysis of ATM networks at multiple time scales. Computer Networks, 1998, 29, 2165-2185.	1.0	8
67	A Markovian model for TCP over ATM. Telecommunication Systems, 1999, 12, 341-368.	2.5	8
68	Tunable laser-based design and analysis for fractional lambda switches. IEEE Transactions on Communications, 2008, 56, 957-967.	7.8	8
69	Emergency braking. , 2011, , .		8
70	Classification of SIP messages by a syntax filter and SVMs. , 2012, , .		8
71	Profiling cloud applications with hardware performance counters. , 2014, , .		8
72	Communication-based collision avoidance between vulnerable road users and cars. , 2017, , .		8

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73	A Blockchain Definition to Clarify its Role for the Internet of Things. , 2021, , .		8
74	Title is missing!. Telecommunication Systems, 2000, 15, 53-62.	2.5	7
75	Dynamic grooming in IP over optical networks based on the overlay architecture. Optical Switching and Networking, 2006, 3, 118-133.	2.0	7
76	SSSim: a Simple and Scalable Simulator for P2P Streaming Systems. , 2009, , .		7
77	Design and implementation of a generic library for P2P streaming. , 2010, , .		7
78	A simulation tool for automated platooning in mixed highway scenarios. Mobile Computing and Communications Review, 2013, 16, 46-49.	1.7	7
79	A dynamic and autonomous channel selection strategy for interference avoidance in 802.11. , 2017, , .		7
80	AntiSense: Standard-compliant CSI obfuscation against unauthorized Wi-Fi sensing. Computer Communications, 2022, 185, 92-103.	5.1	7
81	Local and Global Handovers Based on In-Band Signaling in Wireless ATM Networks. Wireless Networks, 2001, 7, 425-436.	3.0	6
82	Handovers in wireless ATM networks: in-band signaling protocols and performance analysis. IEEE Transactions on Wireless Communications, 2002, 1, 87-100.	9.2	6
83	Simulation of 802.11 PHY/MAC: The quest for accuracy and efficiency. , 2012, , .		6
84	Fairness kills safety: A comparative study for intersection assistance applications. , 2014, , .		6
85	Improving P2P streaming in community-lab through local strategies. , 2014, , .		6
86	Optimized P2P streaming for wireless distributed networks. Pervasive and Mobile Computing, 2017, 42, 335-350.	3.3	6
87	Towards scalable Community Networks topologies. Ad Hoc Networks, 2019, 94, 101949.	5.5	6
88	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
89	Cooperative driving: A comprehensive perspective, the role of communications, and its potential development. Computer Communications, 2022, 193, 82-93.	5.1	6
90	Deflection network: Principles, implementation, services. European Transactions on Telecommunications, 1992, 3, 195-206.	1.2	5

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91	Robust Scheduling of Video Streams in Network-Aware P2P Applications. , 2010, , .		5
92	Waterwall: a cooperative, distributed firewall for wireless mesh networks. Eurasip Journal on Wireless Communications and Networking, 2013, 2013, .	2.4	5
93	Let's talk in groups: A distributed bursting scheme for cluster-based vehicular applications. Vehicular Communications, 2017, 8, 2-12.	4.0	5
94	Traffic masking in IPsec: architecture and implementation. , 2007, , .		4
95	Simulation of SPIT Filtering: Quantitative Evaluation of Parameter Tuning. , 2009, , .		4
96	Push/Pull Protocols for Streaming in P2P Systems. , 2009, , .		4
97	SESAM: A semi-synchronous, energy savvy, application-aware MAC. , 2009, , .		4
98	A behavioral first order CPU performance model for clouds' management. , 2012, , .		4
99	Pullcast: Peer-assisted video multicasting for wireless mesh networks. , 2013, , .		4
100	Energy Saving Through Traffic Profiling and Prediction in Self-Optimizing Optical Networks. , 2014, , .		4
101	Distributed EDCA bursting. , 2016, , .		4
102	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
103	Non Intrusive Wi-Fi CSI Obfuscation Against Active Localization Attacks. , 2021, , .		4
104	Passive Device-Free Multi-Point CSI Localization and Its Obfuscation with Randomized Filtering. , 2021, , .		4
105	Load-balancing solutions for static routing schemes in ATM networks. Computer Networks, 2000, 34, 169-180.	5.1	3
106	On-line routing optimization for MPLS-based IP networks. , 0, , .		3
107	Analytical computation of completion time distributions of short-lived TCP connections. Performance Evaluation, 2005, 59, 179-197.	1.2	3
108	Design and Analysis of Tunable Laser-Based Fractional l Switching (FlS). , 2006, , .		3

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109	Modified Algorithms for Multilevel GRSB Protocol. , 2007, , .		3
110	Scheduling P2P multimedia streams: Can we achieve performance and robustness?. , 2009, , .		3
111	Planning data transfers in grids: a multiâ€service queueing approach. Concurrency Computation Practice and Experience, 2012, 24, 407-422.	2.2	3
112	Quality-of-Experience Driven Acceleration of Thin Client Connections. , 2013, , .		3
113	Live P2P streaming in CommunityLab: Experience and insights. , 2014, , .		3
114	Live Video Streaming for Community Networks, Experimenting with PeerStreamer on the Ninux Community. , 2015, , .		3
115	Optimized cooperative streaming in wireless mesh networks. , 2016, , .		3
116	On the Uplink Performance of TCP in Multi-rate 802.11 WLANs. Lecture Notes in Computer Science, 2011, , 368-378.	1.3	3
117	On the properties of device-free multi-point CSI localization and its obfuscation. Computer Communications, 2022, 189, 67-78.	5.1	3
118	On the Implementation of Location Obfuscation in openwifi and Its Performance. , 2022, , .		3
119	Sender-Side TCP Modifications: Performance Analysis and Design Guidelines. Cluster Computing, 2005, 8, 35-45.	5.0	2
120	QRP02-1: Content Delivery in Overlay Networks: a Stochastic Graph Processes Perspective. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	2
121	Control and optimisation of HCCA 802.11e access scheduling. , 2007, , .		2
122	Route Stabilization in Infrastructured Wireless Mesh Networks: an OLSRD Based Solution. , 2008, , .		2
123	Deadline-Based Differentiation in P2P Streaming. , 2010, , .		2
124	Untethered local communications: From wireless access to social glue. , 2011, , .		2
125	Measuring and reducing the impact of the operating system kernel on endâ€toâ€end latencies in synchronous packet switched networks. Software - Practice and Experience, 2012, 42, 1315-1330.	3.6	2
126	Urban wireless community networks. , 2014, , .		2

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127	A Performance Model for Multimedia Services Provisioning on Network Interfaces. Lecture Notes in Computer Science, 2005, , 286-299.	1.3	2
128	Stochastic Analysis of Chain Based File Distribution Architectures with Heterogeneous Peers. , 0, , .		1
129	Wavelength Swapping using Tunable Lasers for Fractional λ Switching. , 0, , .		1
130	QRP03-2: Fast Stochastic Analysis of P2P File Distribution Architectures. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	1
131	IPsec-Based Anonymous Networking: A Working Implementation. , 2009, , .		1
132	Peer-to-Peer beyond file sharing: Where are P2P systems going?. , 2009, , .		1
133	Network Friendly P2P-TV: The Napa-Wine Approach. , 2010, , .		1
134	Improving mesh-agnostic client announcement in B.A.T.M.A.N.-advanced. , 2012, , .		1
135	Protocol independent multicast: From wired to wireless networks. , 2013, , .		1
136	Energy Saving Through Traffic Profiling in Self-Optimizing Optical Networks. IEEE Systems Journal, 2017, 11, 752-761.	4.6	1
137	<i>Freeze'nSense</i>: estimation of performance isolation in cloud environments. Software - Practice and Experience, 2017, 47, 831-847.	3.6	1
138	On the feasibility of collision detection in full-duplex 802.11 radio. , 2017, , .		1
139	RoRoute: Tools to experiment with routing protocols in WMNs. , 2018, , .		1
140	Centrality-Based Route Recovery in Wireless Mesh Networks. , 2018, , .		1
141	Infective flooding in low-duty-cycle networks, properties and bounds. Computer Communications, 2020, 151, 216-226.	5.1	1
142	WIP: Analysis of Feasible Topologies for Backhaul Mesh Networks. , 2021, , .		1
143	TCP-SACK Analysis and Improvement through OMQN Models. Lecture Notes in Computer Science, 2003, , 405-418.	1.3	1
144	On the Properties of Infective Flooding in Low-Duty-Cycle Networks. , 2019, , .		1

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145	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
146	On the Progressive Introduction of Heterogeneous CACC Capabilities. , 2021, , .		1
147	Performance of Transport Protocols over ATM Networks. Simulation, 2002, 78, 219-230.	1.8	0
148	Internet Wireless Access: 802.11 and Beyond. Mobile Networks and Applications, 2006, 11, 213-214.	3.3	0
149	Welcome from the Chairs. , 2007, , .		0
150	On the Effects of Overlay Localization on P2P Networks. , 2009, , .		0
151	Transmission issues for HDTV satellite systems. European Transactions on Telecommunications, 2010, 5, 483-494.	1.2	0
152	Privacy in the pervasive era: A distributed firewall approach. , 2012, , .		0
153	Proactive restoration of slow-failures in optical networks. , 2014, , .		0
154	Modeling Slipstreaming Effects in Vehicle Platoons. , 2020, , .		0