

Giovanni Stea

List of Publications by Year in descending order

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99
papers

1,463
citations

471509

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454955

30
g-index

103
all docs

103
docs citations

103
times ranked

1071
citing authors

#	ARTICLE	IF	CITATIONS
1	Simu5G – An OMNeT++ Library for End-to-End Performance Evaluation of 5G Networks. IEEE Access, 2020, 8, 181176-181191.	4.2	120
2	Tight end-to-end per-flow delay bounds in FIFO multiplexing sink-tree networks. Performance Evaluation, 2006, 63, 956-987.	1.2	77
3	SimuLTE – A Modular System-level Simulator for LTE/LTE-A Networks based on OMNeT++. , 2014, , .		76
4	Simulating LTE/LTE-Advanced Networks with SimuLTE. Advances in Intelligent Systems and Computing, 2015, , 83-105.	0.6	65
5	Mobile-Edge Computing Come Home Connecting things in future smart homes using LTE device-to-device communications. IEEE Consumer Electronics Magazine, 2016, 5, 77-83.	2.3	64
6	Cellular-V2X Communications for Platooning: Design and Evaluation. Sensors, 2018, 18, 1527.	3.8	63
7	Tradeoffs Between Low Complexity, Low Latency, and Fairness With Deficit Round-Robin Schedulers. IEEE/ACM Transactions on Networking, 2004, 12, 681-693.	3.8	51
8	The EuQoS system: a solution for QoS routing in heterogeneous networks [Quality of Service based Routing Algorithms for Heterogeneous Networks]. , 2007, 45, 96-103.		45
9	An integrated framework for enabling effective data collection and statistical analysis with ns-2. , 2006, , .		43
10	Design and performance analysis of the Real-Time HCCA scheduler for IEEE 802.11e WLANs. Computer Networks, 2007, 51, 2311-2325.	5.1	37
11	Hexa-X The European 6G flagship project. , 2021, , .		36
12	A methodology for computing end-to-end delay bounds in FIFO-multiplexing tandems. Performance Evaluation, 2008, 65, 922-943.	1.2	31
13	Delay bounds for FIFO aggregates: a case study. Computer Communications, 2005, 28, 287-299.	5.1	29
14	Optimal joint routing and link scheduling for real-time traffic in TDMA Wireless Mesh Networks. Computer Networks, 2013, 57, 2301-2312.	5.1	28
15	An efficient cross layer scheduler for multimedia traffic in wireless local area networks with IEEE 802.11e HCCA. Mobile Computing and Communications Review, 2007, 11, 31-46.	1.7	27
16	Aliquem: a novel DRR implementation to achieve better latency and fairness at $O(1)$ complexity. , 0, , .		25
17	Exact Worst-Case Delay in FIFO-Multiplexing Feed-Forward Networks. IEEE/ACM Transactions on Networking, 2015, 23, 1387-1400.	3.8	22
18	EuQoS: End-to-End Quality of Service over Heterogeneous Networks. Computer Communications, 2009, 32, 1355-1370.	5.1	21

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19	Resource allocation for network-controlled device-to-device communications in LTE-Advanced. <i>Wireless Networks</i> , 2017, 23, 787-804.	3.0	21
20	A Deep Reinforcement Learning Approach For Data Migration in Multi-Access Edge Computing. , 2018, , .		21
21	Simu5G: A System-level Simulator for 5G Networks. , 2020, , .		21
22	A comprehensive simulation analysis of LTE Discontinuous Reception (DRX). <i>Computer Networks</i> , 2014, 73, 22-40.	5.1	20
23	End-to-End Performance Evaluation of MEC Deployments in 5G Scenarios. <i>Journal of Sensor and Actuator Networks</i> , 2020, 9, 57.	3.9	20
24	Numerical analysis of worst-case end-to-end delay bounds in FIFO tandem networks. <i>Real-Time Systems</i> , 2012, 48, 527-569.	1.3	18
25	Practical large-scale coordinated scheduling in LTE-Advanced networks. <i>Wireless Networks</i> , 2016, 22, 11-31.	3.0	17
26	A Survey of Smart Classroom Literature. <i>Education Sciences</i> , 2022, 12, 86.	2.6	17
27	Performance Analysis of OpenAirInterface System Emulation. , 2015, , .		16
28	On the automation of computer network simulators. , 2009, , .		16
29	Exploiting LTE D2D communications in M2M Fog platforms: Deployment and practical issues. , 2015, , .		15
30	Modeling unicast device-to-device communications with simuLTE. , 2016, , .		15
31	D2D Communications for Large-Scale Fog Platforms: Enabling Direct M2M Interactions. <i>IEEE Vehicular Technology Magazine</i> , 2018, 13, 24-33.	3.4	15
32	Using Simu5G as a Realtime Network Emulator to Test MEC Apps in an End-To-End 5G Testbed. , 2020, , .		15
33	Estimating the Worst-case Delay in FIFO Tandems Using Network Calculus. , 2008, , .		15
34	Scalable Real-Time Emulation of 5G Networks With Simu5G. <i>IEEE Access</i> , 2021, 9, 148504-148520.	4.2	14
35	Using Deep Reinforcement Learning for Application Relocation in Multi-Access Edge Computing. <i>IEEE Communications Standards Magazine</i> , 2019, 3, 71-78.	4.9	13
36	A novel approach to scalable CAC for real-time traffic in sink-tree networks with aggregate scheduling. , 2006, , .		12

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37	A Fast and Reliable Broadcast Service for LTE-Advanced Exploiting Multihop Device-to-Device Transmissions. <i>Future Internet</i> , 2017, 9, 89.	3.8	12
38	DEBORAH: A Tool for Worst-Case Analysis of FIFO Tandems. <i>Lecture Notes in Computer Science</i> , 2010, , 152-168.	1.3	12
39	Link scheduling with end-to-end delay constraints in Wireless Mesh Networks. , 2009, , .		11
40	A Framework for MEC-enabled Platooning. , 2019, , .		11
41	Design and Analysis of IPACT-Based Bandwidth Allocation for Delay Guarantee in OFDMA-PON. <i>Journal of Optical Communications and Networking</i> , 2013, 5, 1236.	4.8	10
42	Practical feasibility, scalability and effectiveness of coordinated scheduling algorithms in cellular networks towards 5G. <i>Journal of Network and Computer Applications</i> , 2018, 106, 1-16.	9.1	10
43	Designing the 5G network infrastructure: a flexible and reconfigurable architecture based on context and content information. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2018, , .	2.4	10
44	A framework for large-scale simulations and output result analysis with ns-2. , 2009, , .		10
45	A unifying service discipline for providing rate-based guaranteed and fair queuing services based on the Timed Token protocol. <i>IEEE Transactions on Computers</i> , 2002, 37, 1011-1025.	3.4	9
46	Eligibility-based round robin for fair and efficient packet scheduling in wormhole switching networks. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2004, 15, 244-256.	5.6	9
47	Quality of experience based resource sharing in IEEE 802.11e HCCA. , 2010, , .		9
48	Modeling Network-Controlled Device-to-Device Communications in SimuLTE. <i>Sensors</i> , 2018, 18, 3551.	3.8	9
49	Exact Worst-case Delay for FIFO-multiplexing Tandems. , 2012, , .		9
50	Power-Aware Allocation of MBSFN Subframes Using Discontinuous Cell Transmission in LTE Systems. , 2013, , .		8
51	The Road towards Predictable Automotive High - Performance Platforms. , 2021, , .		8
52	A Methodology for Deriving Per-Flow End-to-End Delay Bounds in Sink-Tree DiffServ Domains with FIFO Multiplexing. <i>Lecture Notes in Computer Science</i> , 2004, , 604-614.	1.3	8
53	Ns2Voip++, an enhanced module for VoIP simulations. , 2010, , .		7
54	Performance Evaluation of TCP-Based Traffic over Direct Communications in LTE-Advanced. , 2016, , .		7

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55	Packet timed token service discipline: a scheduling algorithm based on the dual-class paradigm for providing QoS in integrated services networks. <i>Computer Networks</i> , 2002, 39, 363-384.	5.1	6
56	Bandwidth and latency analysis of modified deficit round robin scheduling algorithms. , 2006, , .		6
57	EuQoS: End-To-End QoS over Heterogeneous Networks. , 2008, , .		6
58	Optimal Joint Path Computation and Rate Allocation for Real-time Traffic. <i>Computer Journal</i> , 2015, 58, 1416-1430.	2.4	6
59	Broadcasting in LTE-Advanced networks using multihop D2D communications. , 2016, , .		6
60	Fast and Agile Lossless Mode Switching for D2D Communications in LTE-Advanced Networks. , 2016, , .		6
61	A Distributed Power-Saving Framework for LTE HetNets Exploiting Almost Blank Subframes. <i>IEEE Transactions on Green Communications and Networking</i> , 2017, 1, 235-252.	5.5	6
62	Delay Bounds for FIFO Aggregates: A Case Study. <i>Lecture Notes in Computer Science</i> , 2003, , 31-40.	1.3	5
63	Design and performance analysis of the generalized timed token service discipline. <i>IEEE Transactions on Computers</i> , 2004, 53, 879-891.	3.4	5
64	Provisioning QoS in inter-domain traffic engineering. <i>Annales Des Telecommunications/Annals of Telecommunications</i> , 2008, 63, 545-557.	2.5	5
65	Flexible scheduling for Real-Time services in High-Speed Packet Access cellular networks. , 2009, , .		5
66	Throughput-optimal resource allocation in LTE-Advanced with distributed antennas. <i>Computer Networks</i> , 2013, 57, 3997-4009.	5.1	5
67	QoS routing with worst-case delay constraints: Models, algorithms and performance analysis. <i>Computer Communications</i> , 2017, 103, 104-115.	5.1	5
68	Exploiting Network Calculus for Delay-Based Admission Control in a Sink-Tree Network. , 0, , .		4
69	Optimal link scheduling for real-time traffic in wireless mesh networks in both per-flow and per-path frameworks. , 2010, , .		4
70	Efficient link scheduling for online admission control of real-time traffic in wireless mesh networks. <i>Computer Communications</i> , 2011, 34, 922-934.	5.1	4
71	Modeling X2 backhauling for LTE-advanced and assessing its effect on CoMP coordinated scheduling. , 2016, , .		4
72	End-to-end Delay Bounds in FIFO-multiplexing Tandems. , 2007, , .		4

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73	Effective dynamic coordinated scheduling in LTE-Advanced networks. , 2014, , .		3
74	Delay-constrained routing problems: Accurate scheduling models and admission control. Computers and Operations Research, 2017, 81, 67-77.	4.0	3
75	A scalable data-plane architecture for one-to-one device-to-device communications in LTE-Advanced. Computer Networks, 2018, 131, 77-95.	5.1	3
76	Heterogeneous Systems Modelling with Adaptive Traffic Profiles and Its Application to Worst-Case Analysis of a DRAM Controller. , 2020, , .		3
77	Fog-Computing Based Healthcare Framework for Predicting Encephalitis Outbreak. Big Data Research, 2022, 29, 100330.	4.2	3
78	A scheduling algorithm for providing real-time guarantees in 802.11e WLANs. , 0, , .		2
79	Improving network performance via optimization-based centralized coordination of LTE-A Cells. , 2014, , .		2
80	Testbeds for Future Wireless Networks. Wireless Communications and Mobile Computing, 2019, 2019, 1-2.	1.2	2
81	Cellular-Networks Simulation Using SimuLTE. EAI/Springer Innovations in Communication and Computing, 2019, , 183-214.	1.1	2
82	SAPIENT: Enabling Real-Time Monitoring and Control in the Future Communication Infrastructure of Air Traffic Management. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 4864-4875.	8.0	2
83	Interdomain Path Computation for PCE-assisted Traffic Engineering. , 2009, , .		2
84	Traffic Engineering. , 2008, , 49-73.		2
85	Statistically Sound Experiments with OpenAirInterface Cloud-RAN Prototypes. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2016, , 754-766.	0.3	1
86	A Practical Framework for Energy-Efficient Node Activation in Heterogeneous LTE Networks. Mobile Information Systems, 2017, 2017, 1-17.	0.6	1
87	Geofenced Broadcasts via Centralized Scheduling of Device-to-Device Communications in LTE-Advanced. Communications in Computer and Information Science, 2018, , 3-17.	0.5	1
88	A Co-Simulation Framework to Evaluate Edge Deployment Options and Performance. , 2020, , .		1
89	SimuLTE-MEC: Extending SimuLTE for Multi-Access Edge Computing. , 0, , .		1
90	A low-latency and reliable multihop D2D transmissions scheduling algorithm for guaranteed message dissemination. Ad Hoc Networks, 2021, 126, 102755.	5.5	1

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91	Simulating LISP-Based Multilink Communications in Aeronautical Networks. , 0, , .		1
92	Effective scheduling of real-time traffic in HSUPA. , 2010, , .		0
93	OptiMOS: Optimal MOS-based scheduling of downlink voice flows in point-to-multipoint access networks. , 2010, , .		0
94	Selected papers from ValueTools 2009. Performance Evaluation, 2012, 69, 119-120.	1.2	0
95	On the Schedulability of Deadline-Constrained Traffic in TDMA Wireless Mesh Networks. Computer Journal, 2015, 58, 215-233.	2.4	0
96	Towards Robust Admission Control in Delay-Constrained Routing Problems. Electronic Notes in Discrete Mathematics, 2018, 69, 45-52.	0.4	0
97	The EuQoS System. , 2008, , 131-177.		0
98	A Lagrangian Approach to Chance Constrained Routing with Local Broadcast. AIRO Springer Series, 2021, , 277-291.	0.6	0
99	A MILP approach to DRAM access worst-case analysis. Computers and Operations Research, 2022, 143, 105774.	4.0	0