

Giovanni Stea

List of Publications by Year in descending order

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Version: 2024-02-01

99
papers

1,463
citations

471509

17
h-index

454955

30
g-index

103
all docs

103
docs citations

103
times ranked

1071
citing authors

#	ARTICLE	IF	CITATIONS
1	A Survey of Smart Classroom Literature. Education Sciences, 2022, 12, 86.	2.6	17
2	A MILP approach to DRAM access worst-case analysis. Computers and Operations Research, 2022, 143, 105774.	4.0	0
3	Fog-Computing Based Healthcare Framework for Predicting Encephalitis Outbreak. Big Data Research, 2022, 29, 100330.	4.2	3
4	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
5	The Road towards Predictable Automotive High - Performance Platforms. , 2021, , .		8
6	Hexa-X The European 6G flagship project. , 2021, , .		36
7	A Lagrangian Approach to Chance Constrained Routing with Local Broadcast. AIRO Springer Series, 2021, , 277-291.	0.6	0
8	A low-latency and reliable multihop D2D transmissions scheduling algorithm for guaranteed message dissemination. Ad Hoc Networks, 2021, 126, 102755.	5.5	1
9	Scalable Real-Time Emulation of 5G Networks With Simu5G. IEEE Access, 2021, 9, 148504-148520.	4.2	14
10	Simu5G“An OMNeT++ Library for End-to-End Performance Evaluation of 5G Networks. IEEE Access, 2020, 8, 181176-181191.	4.2	120
11	Using Simu5G as a Realtime Network Emulator to Test MEC Apps in an End-To-End 5G Testbed. , 2020, , .		15
12	A Co-Simulation Framework to Evaluate Edge Deployment Options and Performance. , 2020, , .		1
13	End-to-End Performance Evaluation of MEC Deployments in 5G Scenarios. Journal of Sensor and Actuator Networks, 2020, 9, 57.	3.9	20
14	Heterogeneous Systems Modelling with Adaptive Traffic Profiles and Its Application to Worst-Case Analysis of a DRAM Controller. , 2020, , .		3
15	Simu5G: A System-level Simulator for 5G Networks. , 2020, , .		21
16	Testbeds for Future Wireless Networks. Wireless Communications and Mobile Computing, 2019, 2019, 1-2.	1.2	2
17	Cellular-Networks Simulation Using SimuLTE. EAI/Springer Innovations in Communication and Computing, 2019, , 183-214.	1.1	2
18	A Framework for MEC-enabled Platooning. , 2019, , .		11

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19	Using Deep Reinforcement Learning for Application Relocation in Multi-Access Edge Computing. IEEE Communications Standards Magazine, 2019, 3, 71-78.	4.9	13
20	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
21	D2D Communications for Large-Scale Fog Platforms: Enabling Direct M2M Interactions. IEEE Vehicular Technology Magazine, 2018, 13, 24-33.	3.4	15
22	Practical feasibility, scalability and effectiveness of coordinated scheduling algorithms in cellular networks towards 5G. Journal of Network and Computer Applications, 2018, 106, 1-16.	9.1	10
23	Towards Robust Admission Control in Delay-Constrained Routing Problems. Electronic Notes in Discrete Mathematics, 2018, 69, 45-52.	0.4	0
24	A Deep Reinforcement Learning Approach For Data Migration in Multi-Access Edge Computing. , 2018, , .		21
25	Modeling Network-Controlled Device-to-Device Communications in SimuLTE. Sensors, 2018, 18, 3551.	3.8	9
26	Cellular-V2X Communications for Platooning: Design and Evaluation. Sensors, 2018, 18, 1527.	3.8	63
27	Designing the 5G network infrastructure: a flexible and reconfigurable architecture based on context and content information. Eurasip Journal on Wireless Communications and Networking, 2018, 2018, .	2.4	10
28	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
29	Resource allocation for network-controlled device-to-device communications in LTE-Advanced. Wireless Networks, 2017, 23, 787-804.	3.0	21
30	Delay-constrained routing problems: Accurate scheduling models and admission control. Computers and Operations Research, 2017, 81, 67-77.	4.0	3
31	A Distributed Power-Saving Framework for LTE HetNets Exploiting Almost Blank Subframes. IEEE Transactions on Green Communications and Networking, 2017, 1, 235-252.	5.5	6
32	QoS routing with worst-case delay constraints: Models, algorithms and performance analysis. Computer Communications, 2017, 103, 104-115.	5.1	5
33	A Fast and Reliable Broadcast Service for LTE-Advanced Exploiting Multihop Device-to-Device Transmissions. Future Internet, 2017, 9, 89.	3.8	12
34	A Practical Framework for Energy-Efficient Node Activation in Heterogeneous LTE Networks. Mobile Information Systems, 2017, 2017, 1-17.	0.6	1
35	Broadcasting in LTE-Advanced networks using multihop D2D communications. , 2016, , .		6
36	Fast and Agile Lossless Mode Switching for D2D Communications in LTE-Advanced Networks. , 2016, , .		6

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37	Modeling X2 backhauling for LTE-advanced and assessing its effect on CoMP coordinated scheduling. , 2016, , .		4
38	Modeling unicast device-to-device communications with simuLTE. , 2016, , .		15
39	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
40	Performance Evaluation of TCP-Based Traffic over Direct Communications in LTE-Advanced. , 2016, , .		7
41	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
42	Practical large-scale coordinated scheduling in LTE-Advanced networks. Wireless Networks, 2016, 22, 11-31.	3.0	17
43	On the Schedulability of Deadline-Constrained Traffic in TDMA Wireless Mesh Networks. Computer Journal, 2015, 58, 215-233.	2.4	0
44	Exploiting LTE D2D communications in M2M Fog platforms: Deployment and practical issues. , 2015, , .		15
45	Simulating LTE/LTE-Advanced Networks with SimuLTE. Advances in Intelligent Systems and Computing, 2015, , 83-105.	0.6	65
46	Optimal Joint Path Computation and Rate Allocation for Real-time Traffic. Computer Journal, 2015, 58, 1416-1430.	2.4	6
47	Performance Analysis of OpenAirInterface System Emulation. , 2015, , .		16
48	Exact Worst-Case Delay in FIFO-Multiplexing Feed-Forward Networks. IEEE/ACM Transactions on Networking, 2015, 23, 1387-1400.	3.8	22
49	SimuLTE â€“ A Modular System-level Simulator for LTE/LTE-A Networks based on OMNeT++ , 2014, , .		76
50	Effective dynamic coordinated scheduling in LTE-Advanced networks. , 2014, , .		3
51	Improving network performance via optimization-based centralized coordination of LTE-A Cells. , 2014, , .		2
52	A comprehensive simulation analysis of LTE Discontinuous Reception (DRX). Computer Networks, 2014, 73, 22-40.	5.1	20
53	Throughput-optimal resource allocation in LTE-Advanced with distributed antennas. Computer Networks, 2013, 57, 3997-4009.	5.1	5
54	Optimal joint routing and link scheduling for real-time traffic in TDMA Wireless Mesh Networks. Computer Networks, 2013, 57, 2301-2312.	5.1	28

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55	Design and Analysis of IPACT-Based Bandwidth Allocation for Delay Guarantee in OFDMA-PON. Journal of Optical Communications and Networking, 2013, 5, 1236.	4.8	10
56	Power-Aware Allocation of MBSFN Subframes Using Discontinuous Cell Transmission in LTE Systems. , 2013, , .		8
57	Numerical analysis of worst-case end-to-end delay bounds in FIFO tandem networks. Real-Time Systems, 2012, 48, 527-569.	1.3	18
58	Selected papers from ValueTools 2009. Performance Evaluation, 2012, 69, 119-120.	1.2	0
59	Exact Worst-case Delay for FIFO-multiplexing Tandems. , 2012, , .		9
60	Efficient link scheduling for online admission control of real-time traffic in wireless mesh networks. Computer Communications, 2011, 34, 922-934.	5.1	4
61	Optimal link scheduling for real-time traffic in wireless mesh networks in both per-flow and per-path frameworks. , 2010, , .		4
62	Effective scheduling of real-time traffic in HSUPA. , 2010, , .		0
63	OptiMOS: Optimal MOS-based scheduling of downlink voice flows in point-to-multipoint access networks. , 2010, , .		0
64	Quality of experience based resource sharing in IEEE 802.11e HCCA. , 2010, , .		9
65	Ns2Voip++, an enhanced module for VoIP simulations. , 2010, , .		7
66	DEBORAH: A Tool for Worst-Case Analysis of FIFO Tandems. Lecture Notes in Computer Science, 2010, , 152-168.	1.3	12
67	Flexible scheduling for Real-Time services in High-Speed Packet Access cellular networks. , 2009, , .		5
68	EuQoS: End-to-End Quality of Service over Heterogeneous Networks. Computer Communications, 2009, 32, 1355-1370.	5.1	21
69	Link scheduling with end-to-end delay constraints in Wireless Mesh Networks. , 2009, , .		11
70	On the automation of computer network simulators. , 2009, , .		16
71	A framework for large-scale simulations and output result analysis with ns-2. , 2009, , .		10
72	Interdomain Path Computation for PCE-assisted Traffic Engineering. , 2009, , .		2

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73	Provisioning QoS in inter-domain traffic engineering. Annales Des Telecommunications/Annals of Telecommunications, 2008, 63, 545-557.	2.5	5
74	A methodology for computing end-to-end delay bounds in FIFO-multiplexing tandems. Performance Evaluation, 2008, 65, 922-943.	1.2	31
75	EuQoS: End-To-End QoS over Heterogeneous Networks. , 2008, , .		6
76	Estimating the Worst-case Delay in FIFO Tandems Using Network Calculus. , 2008, , .		15
77	The EuQoS System. , 2008, , 131-177.		0
78	Traffic Engineering. , 2008, , 49-73.		2
79	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
80	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
81	Design and performance analysis of the Real-Time HCCA scheduler for IEEE 802.11e WLANs. Computer Networks, 2007, 51, 2311-2325.	5.1	37
82	End-to-end Delay Bounds in FIFO-multiplexing Tandems. , 2007, , .		4
83	Tight end-to-end per-flow delay bounds in FIFO multiplexing sink-tree networks. Performance Evaluation, 2006, 63, 956-987.	1.2	77
84	Bandwidth and latency analysis of modified deficit round robin scheduling algorithms. , 2006, , .		6
85	An integrated framework for enabling effective data collection and statistical analysis with ns-2. , 2006, , .		43
86	A novel approach to scalable CAC for real-time traffic in sink-tree networks with aggregate scheduling. , 2006, , .		12
87	Delay bounds for FIFO aggregates: a case study. Computer Communications, 2005, 28, 287-299.	5.1	29
88	Eligibility-based round robin for fair and efficient packet scheduling in wormhole switching networks. IEEE Transactions on Parallel and Distributed Systems, 2004, 15, 244-256.	5.6	9
89	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
90	Design and performance analysis of the generalized timed token service discipline. IEEE Transactions on Computers, 2004, 53, 879-891.	3.4	5

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91	A Methodology for Deriving Per-Flow End-to-End Delay Bounds in Sink-Tree DiffServ Domains with FIFO Multiplexing. Lecture Notes in Computer Science, 2004, , 604-614.	1.3	8
92	Delay Bounds for FIFO Aggregates: A Case Study. Lecture Notes in Computer Science, 2003, , 31-40.	1.3	5
93	A unifying service discipline for providing rate-based guaranteed and fair queuing services based on the Timed Token protocol. IEEE Transactions on Computers, 2002, 37, 1011-1025.	3.4	9
94	Packet timed token service discipline: a scheduling algorithm based on the dual-class paradigm for providing QoS in integrated services networks. Computer Networks, 2002, 39, 363-384.	5.1	6
95	Aliquem: a novel DRR implementation to achieve better latency and fairness at $O(1)$ complexity. , 0, , .		25
96	A scheduling algorithm for providing real-time guarantees in 802.11e WLANs. , 0, , .		2
97	Exploiting Network Calculus for Delay-Based Admission Control in a Sink-Tree Network. , 0, , .		4
98	SimuLTE-MEC: Extending SimuLTE for Multi-Access Edge Computing. , 0, , .		1
99	Simulating LISP-Based Multilink Communications in Aeronautical Networks. , 0, , .		1