

# Giuseppe Lipari

## List of Publications by Year in descending order

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76  
papers

1,529  
citations

471509

17  
h-index

361022

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76  
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76  
docs citations

76  
times ranked

1002  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Linux-based support for developing real-time applications on heterogeneous platforms with dynamic FPGA reconfiguration. <i>Future Generation Computer Systems</i> , 2022, 129, 125-140.	7.5	2
2	The HPC-DAG Task Model for Heterogeneous Real-Time Systems. <i>IEEE Transactions on Computers</i> , 2020, , 1-1.	3.4	18
3	Preemption-Aware Allocation, Deadline Assignment for Conditional DAGs on Partitioned EDF. , 2020, , .		5
4	An analysis and simulation tool of real-time communications in on-chip networks. <i>ACM SIGBED Review</i> , 2020, 17, 5-11.	1.8	2
5	Task and Communication Allocation for Real-time Tasks to Networks-on-Chip Multiprocessors. , 2020, , .		2
6	The Parallel Multi-Mode Digraph Task Model for Energy-Aware Real-Time Heterogeneous Multi-Core Systems. <i>IEEE Transactions on Computers</i> , 2019, 68, 1511-1524.	3.4	12
7	Improving responsiveness of time-sensitive applications by exploiting dynamic task dependencies. <i>Software - Practice and Experience</i> , 2018, 48, 820-841.	3.6	0
8	Towards Probabilistic Modeling and Analysis of Real-Time Systems. <i>Lecture Notes in Computer Science</i> , 2018, , 157-172.	1.3	0
9	Symbolic WCET Computation. <i>Transactions on Embedded Computing Systems</i> , 2018, 17, 1-26.	2.9	4
10	Energy-efficient scheduling for moldable real-time tasks on heterogeneous computing platforms. <i>Journal of Systems Architecture</i> , 2017, 74, 46-60.	4.3	55
11	Migrate when necessary. , 2017, , .		2
12	A pre-order relation for exact schedulability test of sporadic tasks on multiprocessor Global Fixed-Priority scheduling. <i>Real-Time Systems</i> , 2016, 52, 323-355.	1.3	12
13	Cache related pre-emption delays in hierarchical scheduling. <i>Real-Time Systems</i> , 2016, 52, 201-238.	1.3	7
14	Multicore CPU reclaiming. , 2016, , .		6
15	Constant bandwidth server revisited. <i>ACM SIGBED Review</i> , 2015, 11, 19-24.	1.8	8
16	Response Time Analysis with Limited Carry-In for Global Earliest Deadline First Scheduling. , 2015, , .		12
17	SPEED-3D: a geographic routing protocol for 6LoWPAN networks. <i>International Journal of Ad Hoc and Ubiquitous Computing</i> , 2015, 19, 143.	0.5	2
18	Reachability Preservation Based Parameter Synthesis for Timed Automata. <i>Lecture Notes in Computer Science</i> , 2015, , 50-65.	1.3	7

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19	Probabilistic Deadline Miss Analysis of Real-Time Systems Using Regenerative Transient Analysis. , 2014, , .		5
20	ADOK. ACM SIGBED Review, 2014, 11, 74-79.	1.8	1
21	Component-based analysis of hierarchical scheduling using linear hybrid automata. , 2014, , .		7
22	Improving the response time analysis of global fixed-priority multiprocessor scheduling. , 2014, , .		4
23	Latency Analysis of Network-on-Chip Based Many-Core Processors. , 2014, , .		4
24	Toward Parametric Timed Interfaces for Real-Time Components. Electronic Proceedings in Theoretical Computer Science, EPTCS, 2014, 145, 49-64.	0.8	5
25	A Weak Simulation Relation for Real-Time Schedulability Analysis of Global Fixed Priority Scheduling Using Linear Hybrid Automata. , 2014, , .		12
26	Parametric Schedulability Analysis of Fixed Priority Real-Time Distributed Systems. Communications in Computer and Information Science, 2014, , 212-228.	0.5	9
27	Accounting for Cache Related Pre-emption Delays in Hierarchical Scheduling. , 2014, , .		10
28	Dynamic TXOP HCCA reclaiming scheduler with transmission time estimation for IEEE 802.11e real-time networks. , 2012, , .		7
29	Analysis and implementation of the multiprocessor bandwidth inheritance protocol. Real-Time Systems, 2012, 48, 789-825.	1.3	21
30	Providing variable TXOP for IEEE 802.11e HCCA real-time networks. , 2012, , .		20
31	An experimental comparison of different real-time schedulers on multicore systems. Journal of Systems and Software, 2012, 85, 2405-2416.	4.5	25
32	On-line schedulability tests for adaptive reservations in fixed priority scheduling. Real-Time Systems, 2012, 48, 601-634.	1.3	13
33	Enhancement of QoS support of HCCA schedulers using EDCA function in IEEE 802.11e networks. Ad Hoc Networks, 2012, 10, 147-161.	5.5	32
34	A QoS registry for adaptive real-time service-oriented applications. , 2011, , .		0
35	A Robust Mechanism for Adaptive Scheduling of Multimedia Applications. Transactions on Embedded Computing Systems, 2011, 10, 1-24.	2.9	13
36	Modular software architecture for flexible reservation mechanisms on heterogeneous resources. Journal of Systems Architecture, 2011, 57, 366-382.	4.3	33

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37	A tool for component-based schedulability analysis of distributed real-time pipelines. ACM SIGBED Review, 2011, 8, 70-72.	1.8	0
38	A Formal Approach to Design and Verification of Two-Level Hierarchical Scheduling Systems. Lecture Notes in Computer Science, 2011, , 118-131.	1.3	5
39	On the Integration of Application Level and Resource Level QoS Control for Real-Time Applications. IEEE Transactions on Industrial Informatics, 2010, 6, 479-491.	11.3	39
40	A model for the design of wireless sensor networks using geographic routing. , 2010, , .		0
41	A Framework for Hierarchical Scheduling on Multiprocessors: From Application Requirements to Run-Time Allocation. , 2010, , .		42
42	The Demand Bound Function Interface of Distributed Sporadic Pipelines of Tasks Scheduled by EDF. , 2010, , .		13
43	The Multiprocessor Bandwidth Inheritance Protocol. , 2010, , .		36
44	A component-based architecture for adaptive bandwidth allocation in Wireless Sensor Networks. , 2010, , .		3
45	The Distributed Deadline Synchronization Protocol for real-time systems scheduled by EDF. , 2010, , .		5
46	A service-oriented architecture for QoS configuration and management of Wireless Sensor Networks. , 2010, , .		26
47	Model based real-time networked applications for Wireless Sensor Networks. , 2009, , .		2
48	Schedulability Analysis of Global Scheduling Algorithms on Multiprocessor Platforms. IEEE Transactions on Parallel and Distributed Systems, 2009, 20, 553-566.	5.6	181
49	ERIKA and open-ZB. , 2009, , .		6
50	Minimizing CPU energy in real-time systems with discrete speed management. Transactions on Embedded Computing Systems, 2009, 8, 1-23.	2.9	50
51	Enhancing a dependable multiserver operating system with temporal protection via resource reservations. Real-Time Systems, 2009, 43, 177-210.	1.3	10
52	Simulating Real-Time Aspects of Wireless Sensor Networks. Eurasip Journal on Wireless Communications and Networking, 2009, 2010, .	2.4	16
53	A Survey on Bandwidth Resource Allocation and Scheduling in Wireless Sensor Networks. , 2009, , .		17
54	Resource Reservations for General Purpose Applications. IEEE Transactions on Industrial Informatics, 2009, 5, 12-21.	11.3	27

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55	Multi-level feedback control for Quality of Service Management. , 2009, , .		3
56	A Real-Time Service-Oriented Architecture for Industrial Automation. IEEE Transactions on Industrial Informatics, 2009, 5, 267-277.	11.3	182
57	Improving the schedulability of soft real-time open dynamic systems: The inheritor is actually a debtor. Journal of Systems and Software, 2008, 81, 1093-1104.	4.5	8
58	Weighted feedback reclaiming for multimedia applications. , 2008, , .		9
59	A Framework for Modeling Operating System Mechanisms in the Simulation of Network Protocols for Real-Time Distributed Systems. , 2007, , .		6
60	Rapid prototyping suite of IEEE 802.15.4-compliant Sensor Networks. , 2007, , .		1
61	IMPACT OF THE OPERATING SYSTEM ON THE QOS OFFERED BY AN IEEE 802.15.4-COMPLIANT SENSOR NETWORK. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 41-48.	0.4	0
62	A Flexible Scheme for Scheduling Fault-Tolerant Real-Time Tasks on Multiprocessors. , 2007, , .		15
63	Adding Timing Analysis to Functional Design to Predict Implementation Errors. , 2007, , .		2
64	Holistic analysis of asynchronous real-time transactions with earliest deadline scheduling. Journal of Computer and System Sciences, 2007, 73, 186-206.	1.2	17
65	A Resource Reservation Algorithm for Power-Aware Scheduling of Periodic and Aperiodic Real-Time Tasks. IEEE Transactions on Computers, 2006, 55, 1509-1522.	3.4	34
66	A UML Profile and a Methodology for Real-Time Systems Design. , 2006, , .		11
67	A Hierarchical Framework for Component-based Real-time Systems. Electronic Notes in Theoretical Computer Science, 2005, 116, 253-266.	0.9	8
68	QUACK: A Platform for the Quality of New Generation Integrated Embedded Systems. Electronic Notes in Theoretical Computer Science, 2005, 116, 113-131.	0.9	0
69	Feasibility Analysis of Real-Time Periodic Tasks with Offsets. Real-Time Systems, 2005, 30, 105-128.	1.3	53
70	Task synchronization in reservation-based real-time systems. IEEE Transactions on Computers, 2004, 53, 1591-1601.	3.4	34
71	A Framework for Composing Real-Time Schedulers. Electronic Notes in Theoretical Computer Science, 2003, 82, 133-146.	0.9	12
72	Elastic scheduling for flexible workload management. IEEE Transactions on Computers, 2002, 51, 289-302.	3.4	200

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73	An object-oriented tool for simulating distributed real-time control systems. <i>Software - Practice and Experience</i> , 2002, 32, 907-932.	3.6	25
74	Stack Size Minimization for Embedded Real-Time Systems-on-a-Chip. <i>Design Automation for Embedded Systems</i> , 2002, 7, 53-87.	1.0	9
75	Schedulability analysis of periodic and aperiodic tasks with resource constraints. <i>Journal of Systems Architecture</i> , 2000, 46, 327-338.	4.3	45
76	Special issue on real-time scheduling on heterogeneous platforms. <i>Real-Time Systems</i> , 0, , .	1.3	0