Giuseppe Lipari

List of Publications by Year
in descending order

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76	1,529	471509	361022
papers	citations	17 h-index	35 g-index

76	76	76	1002
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Elastic scheduling for flexible workload management. IEEE Transactions on Computers, 2002, 51, 289-302.	3.4	200
2	A Real-Time Service-Oriented Architecture for Industrial Automation. IEEE Transactions on Industrial Informatics, 2009, 5, 267-277.	11.3	182
3	Schedulability Analysis of Global Scheduling Algorithms on Multiprocessor Platforms. IEEE Transactions on Parallel and Distributed Systems, 2009, 20, 553-566.	5.6	181
4	Energy-efficient scheduling for moldable real-time tasks on heterogeneous computing platforms. Journal of Systems Architecture, 2017, 74, 46-60.	4.3	55
5	Feasibility Analysis of Real-Time Periodic Tasks with Offsets. Real-Time Systems, 2005, 30, 105-128.	1.3	53
6	Minimizing CPU energy in real-time systems with discrete speed management. Transactions on Embedded Computing Systems, 2009, 8, 1-23.	2.9	50
7	Schedulability analysis of periodic and aperiodic tasks with resource constraints. Journal of Systems Architecture, 2000, 46, 327-338.	4.3	45
8	A Framework for Hierarchical Scheduling on Multiprocessors: From Application Requirements to Run-Time Allocation. , 2010, , .		42
9	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
10	The Multiprocessor Bandwidth Inheritance Protocol. , 2010, , .		36
11	Task synchronization in reservation-based real-time systems. IEEE Transactions on Computers, 2004, 53, 1591-1601.	3.4	34
12	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
13	Modular software architecture for flexible reservation mechanisms on heterogeneous resources. Journal of Systems Architecture, 2011, 57, 366-382.	4.3	33
14	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
15	Resource Reservations for General Purpose Applications. IEEE Transactions on Industrial Informatics, 2009, 5, 12-21.	11.3	27
16	A service-oriented architecture for QoS configuration and management of Wireless Sensor Networks. , 2010, , .		26
17	An object-oriented tool for simulating distributed real-time control systems. Software - Practice and Experience, 2002, 32, 907-932.	3.6	25
18	An experimental comparison of different real-time schedulers on multicore systems. Journal of Systems and Software, 2012, 85, 2405-2416.	4.5	25

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19	Analysis and implementation of the multiprocessor bandwidth inheritance protocol. Real-Time Systems, 2012, 48, 789-825.	1.3	21
20	Providing variable TXOP for IEEE 802.11e HCCA real-time networks. , 2012, , .		20
21	The HPC-DAG Task Model for Heterogeneous Real-Time Systems. IEEE Transactions on Computers, 2020, , 1-1.	3.4	18
22	Holistic analysis of asynchronous real-time transactions with earliest deadline scheduling. Journal of Computer and System Sciences, 2007, 73, 186-206.	1.2	17
23	A Survey on Bandwidth Resource Allocation and Scheduling in Wireless Sensor Networks. , 2009, , .		17
24	Simulating Real-Time Aspects of Wireless Sensor Networks. Eurasip Journal on Wireless Communications and Networking, 2009, 2010, .	2.4	16
25	A Flexible Scheme for Scheduling Fault-Tolerant Real-Time Tasks on Multiprocessors. , 2007, , .		15
26	The Demand Bound Function Interface of Distributed Sporadic Pipelines of Tasks Scheduled by EDF. , 2010, , .		13
27	A Robust Mechanism for Adaptive Scheduling of Multimedia Applications. Transactions on Embedded Computing Systems, 2011, 10, 1-24.	2.9	13
28	On-line schedulability tests for adaptive reservations in fixed priority scheduling. Real-Time Systems, 2012, 48, 601-634.	1.3	13
29	A Framework for Composing Real-Time Schedulers. Electronic Notes in Theoretical Computer Science, 2003, 82, 133-146.	0.9	12
30	A Weak Simulation Relation for Real-Time Schedulability Analysis of Global Fixed Priority Scheduling Using Linear Hybrid Automata. , 2014, , .		12
31	Response Time Analysis with Limited Carry-In for Global Earliest Deadline First Scheduling. , 2015, , .		12
32	A pre-order relation for exact schedulability test of sporadic tasks on multiprocessor Global Fixed-Priority scheduling. Real-Time Systems, 2016, 52, 323-355.	1.3	12
33	The Parallel Multi-Mode Digraph Task Model for Energy-Aware Real-Time Heterogeneous Multi-Core Systems. IEEE Transactions on Computers, 2019, 68, 1511-1524.	3.4	12
34	A UML Profile and a Methodology for Real-Time Systems Design. , 2006, , .		11
35	Enhancing a dependable multiserver operating system with temporal protection via resource reservations. Real-Time Systems, 2009, 43, 177-210.	1.3	10
36	Accounting for Cache Related Pre-emption Delays in Hierarchical Scheduling. , 2014, , .		10

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37	Stack Size Minimization for Embedded Real-Time Systems-on-a-Chip. Design Automation for Embedded Systems, 2002, 7, 53-87.	1.0	9
38	Weighted feedback reclaiming for multimedia applications. , 2008, , .		9
39	Parametric Schedulability Analysis of Fixed Priority Real-Time Distributed Systems. Communications in Computer and Information Science, 2014, , 212-228.	0.5	9
40	A Hierarchical Framework for Component-based Real-time Systems. Electronic Notes in Theoretical Computer Science, 2005, 116, 253-266.	0.9	8
41	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
42	Constant bandwidth server revisited. ACM SIGBED Review, 2015, 11, 19-24.	1.8	8
43	Dynamic TXOP HCCA reclaiming scheduler with transmission time estimation for IEEE 802.11e real-time networks. , 2012, , .		7
44	Component-based analysis of hierarchical scheduling using linear hybrid automata. , 2014, , .		7
45	Cache related pre-emption delays in hierarchical scheduling. Real-Time Systems, 2016, 52, 201-238.	1.3	7
46	Reachability Preservation Based Parameter Synthesis for Timed Automata. Lecture Notes in Computer Science, 2015, , 50-65.	1.3	7
47	A Framework for Modeling Operating System Mechanisms in the Simulation of Network Protocols for Real-Time Distributed Systems. , 2007, , .		6
48	ERIKA and open-ZB. , 2009, , .		6
49	Multicore CPU reclaiming. , 2016, , .		6
50	The Distributed Deadline Synchronization Protocol for real-time systems scheduled by EDF. , 2010, , .		5
51	Probabilistic Deadline Miss Analysis of Real-Time Systems Using Regenerative Transient Analysis. , 2014, , .		5
52	Toward Parametric Timed Interfaces for Real-Time Components. Electronic Proceedings in Theoretical Computer Science, EPTCS, 2014, 145, 49-64.	0.8	5
53	Preemption-Aware Allocation, Deadline Assignment for Conditional DAGs on Partitioned EDF. , 2020, , .		5
54	A Formal Approach to Design and Verification of Two-Level Hierarchical Scheduling Systems. Lecture Notes in Computer Science, 2011, , 118-131.	1.3	5

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55	Improving the response time analysis of global fixed-priority multiprocessor scheduling. , 2014, , .		4
56	Latency Analysis of Network-on-Chip Based Many-Core Processors. , 2014, , .		4
57	Symbolic WCET Computation. Transactions on Embedded Computing Systems, 2018, 17, 1-26.	2.9	4
58	Multi-level feedback control for Quality of Service Management. , 2009, , .		3
59	A component-based architecture for adaptive bandwidth allocation in Wireless Sensor Networks. , 2010, , .		3
60	Adding Timing Analysis to Functional Design to Predict Implementation Errors. , 2007, , .		2
61	Model based real-time networked applications for Wireless Sensor Networks. , 2009, , .		2
62	SPEED-3D: a geographic routing protocol for 6LoWPAN networks. International Journal of Ad Hoc and Ubiquitous Computing, 2015, 19, 143.	0.5	2
63	Migrate when necessary. , 2017, , .		2
64	An analysis and simulation tool of real-time communications in on-chip networks. ACM SIGBED Review, 2020, 17, 5-11.	1.8	2
65	A Linux-based support for developing real-time applications on heterogeneous platforms with dynamic FPGA reconfiguration. Future Generation Computer Systems, 2022, 129, 125-140.	7.5	2
66	Task and Communication Allocation for Real-time Tasks to Networks-on-Chip Multiprocessors. , 2020, , .		2
67	Rapid prototyping suite of IEEE 802.15.4-compliant Sensor Networks. , 2007, , .		1
68	ADOK. ACM SIGBED Review, 2014, 11, 74-79.	1.8	1
69	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
70	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
71	A model for the design of wireless sensor networks using geographic routing. , 2010, , .		0
72	A QoS registry for adaptive real-time service-oriented applications. , 2011, , .		0

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73	A tool for component-based schedulability analysis of distributed real-time pipelines. ACM SIGBED Review, 2011, 8, 70-72.	1.8	0
74	Improving responsiveness of time-sensitive applications by exploiting dynamic task dependencies. Software - Practice and Experience, 2018, 48, 820-841.	3.6	0
75	Towards Probabilistic Modeling and Analysis of Real-Time Systems. Lecture Notes in Computer Science, 2018, , 157-172.	1.3	0
76	Special issue on real-time scheduling on heterogeneous platforms. Real-Time Systems, 0, , .	1.3	0