Arvind Easwaran

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#	Paper	IF	Citations
75	Hierarchical Scheduling Framework for Virtual Clustering of Multiprocessors 2008,		87
74	Compositional Analysis Framework Using EDP Resource Models 2007 ,		73
73	Demand-Based Scheduling of Mixed-Criticality Sporadic Tasks on One Processor 2013,		48
72	Optimal virtual cluster-based multiprocessor scheduling. <i>Real-Time Systems</i> , 2009 , 43, 25-59	1.3	46
71	Resource Sharing in Global Fixed-Priority Preemptive Multiprocessor Scheduling 2009,		44
70	Global EDF Schedulability Analysis for Synchronous Parallel Tasks on Multicore Platforms 2013,		40
69	2011,		35
68	MC-Fluid: Fluid Model-Based Mixed-Criticality Scheduling on Multiprocessors 2014,		31
67	A Compositional Scheduling Framework for Digital Avionics Systems 2009,		30
66	Resource Efficient Isolation Mechanisms in Mixed-Criticality Scheduling 2015,		27
65	MC-Fluid: Simplified and Optimally Quantified 2015 ,		25
64	Incremental schedulability analysis of hierarchical real-time components 2006,		23
63	Under-Approximating Backward Reachable Sets by Polytopes. <i>Lecture Notes in Computer Science</i> , 2016 , 457-476	0.9	19
62	Global EDF Schedulability Analysis for Parallel Tasks on Multi-Core Platforms. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2017 , 28, 1331-1345	3.7	18
61	CARTS. <i>ACM SIGBED Review</i> , 2011 , 8, 62-63	1.3	18
60	Maximizing Contention-Free Executions in Multiprocessor Scheduling 2011 ,		16
59	Zero-laxity based real-time multiprocessor scheduling. <i>Journal of Systems and Software</i> , 2011 , 84, 2324	-23333	16

58	LLF Schedulability Analysis on Multiprocessor Platforms 2010 ,		16
57	Compositional Schedulability Analysis of Hierarchical Real-Time Systems 2007,		16
56	Dynamic Budget Management with Service Guarantees for Mixed-Criticality Systems 2016,		16
55	A hierarchical framework for holistic optimization of the operations of district cooling systems. <i>Applied Energy</i> , 2019 , 239, 23-40	10.7	14
54	. IEEE Transactions on Computers, 2015 , 64, 941-954	2.5	14
53	Reach-Avoid Verification for Nonlinear Systems Based on Boundary Analysis. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 3518-3523	5.9	14
52	Underapproximating Backward Reachable Sets by Semialgebraic Sets. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 5185-5197	5.9	13
51	Provably good multiprocessor scheduling with resource sharing. <i>Real-Time Systems</i> , 2010 , 46, 153-159	1.3	12
50	Compositional Feasibility Analysis of Conditional Real-Time Task Models 2008,		12
49	Steering of Discrete Event Systems: Control Theory Approach. <i>Electronic Notes in Theoretical Computer Science</i> , 2006 , 144, 21-39	0.7	12
48	Laxity dynamics and LLF schedulability analysis on multiprocessor platforms. <i>Real-Time Systems</i> , 2012 , 48, 716-749	1.3	11
47	Towards safe machine learning for CPS 2019 ,		10
46	Probabilistic analysis for mixed criticality systems using fixed priority preemptive scheduling 2017,		10
45	Mapping Time-Critical Safety-Critical Cyber Physical Systems to Hybrid FPGAs 2014 ,		10
44	Area-constrained technology mapping for in-memory computing using ReRAM devices 2017,		8
43	Contention-free executions for real-time multiprocessor scheduling. <i>Transactions on Embedded Computing Systems</i> , 2014 , 13, 1-25	1.8	8
42	Extending Task-level to Job-level Fixed Priority Assignment and Schedulability Analysis Using Pseudo-deadlines 2012 ,		8
41	Evaluation of an artificial pancreas in in silico patients with online-tuned internal model control. Biomedical Signal Processing and Control, 2018 , 41, 198-209	4.9	7

40	Mixed-Criticality Scheduling on Multiprocessors with Service Guarantees 2018,		7
39	Managing Industrial Communication Delays with Software-Defined Networking 2019,		7
38	. IEEE Transactions on Parallel and Distributed Systems, 2020 , 31, 171-186	3.7	7
37	A Scenario-Based Branch-and-Bound Approach for MES Scheduling in Urban Buildings. <i>IEEE Transactions on Industrial Informatics</i> , 2020 , 16, 7510-7520	11.9	6
36	Challenges in Digital Twin Development for Cyber-Physical Production Systems. <i>Lecture Notes in Computer Science</i> , 2019 , 28-48	0.9	6
35	TiLA: Twin-in-the-Loop Architecture for Cyber-Physical Production Systems 2019 ,		6
34	A systematic security analysis of real-time cyber-physical systems 2017,		5
33	Dynamic budget management and budget reclamation for mixed-criticality systems. <i>Real-Time Systems</i> , 2019 , 55, 552-597	1.3	5
32	Utilization difference based partitioned scheduling of mixed-criticality systems 2017,		5
31	Convex optimization framework for intermediate deadline assignment in soft and hard real-time distributed systems. <i>Journal of Systems and Software</i> , 2012 , 85, 2331-2339	3.3	5
30	Online robust optimization framework for QoS guarantees in distributed soft real-time systems 2010 ,		5
29	Simulation of Simultaneous Events in Regular Expressions for Run-Time Verification. <i>Electronic Notes in Theoretical Computer Science</i> , 2005 , 113, 123-143	0.7	5
28	Crossbar-Constrained Technology Mapping for ReRAM Based In-Memory Computing. <i>IEEE Transactions on Computers</i> , 2020 , 69, 734-748	2.5	5
27	Contract-Based Hierarchical Resilience Management for Cyber-Physical Systems. <i>Computer</i> , 2018 , 51, 56-65	1.6	4
26	Efficient decentralized active balancing strategy for smart battery cells 2017,		3
25	A Practical Degradation Model for Mixed-Criticality Systems 2019 ,		3
24	MC-Fluid: Multi-Core Fluid-Based Mixed-Criticality Scheduling. <i>IEEE Transactions on Computers</i> , 2018 , 67, 469-483	2.5	3
23	Multiprocessor real-time scheduling considering concurrency and urgency. <i>ACM SIGBED Review</i> , 2010 , 7, 1-5	1.3	3

22	SlotSwapper. ACM SIGBED Review, 2020, 16, 32-37	1.3	3
21	Probably Approximate Safety Verification of Hybrid Dynamical Systems. <i>Lecture Notes in Computer Science</i> , 2019 , 236-252	0.9	3
20	PAC Model Checking of Black-Box Continuous-Time Dynamical Systems. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2020 , 39, 3944-3955	2.5	3
19	A schedule randomization policy to mitigate timing attacks in WirelessHART networks. <i>Real-Time Systems</i> , 2020 , 56, 452-489	1.3	3
18	Flow Network-Based Real-Time Scheduling for Reducing Static Energy Consumption on Multiprocessors. <i>IEEE Access</i> , 2019 , 7, 1330-1344	3.5	3
17	Contract-Based Methodology for Developing Resilient Cyber-Infrastructure in the Industry 4.0 Era. <i>IEEE Embedded Systems Letters</i> , 2019 , 11, 5-8	1	3
16	A Game-Theoretic Approach to Secure Estimation and Control for Cyber-Physical Systems with a Digital Twin 2020 ,		2
15	Real-Time Energy Monitoring in IoT-enabled Mobile Devices 2020 ,		2
14	2018,		2
13	Scheduling Sporadic Tasks on Multiprocessors with Mutual Exclusion Constraints 2009,		2
13	Scheduling Sporadic Tasks on Multiprocessors with Mutual Exclusion Constraints 2009, Model-based analysis of Timed-Triggered Ethernet 2012,		2
		1.3	
12	Model-based analysis of Timed-Triggered Ethernet 2012 , Multi-rate fluid scheduling of mixed-criticality systems on multiprocessors. <i>Real-Time Systems</i> , 2018	1.3	2
12	Model-based analysis of Timed-Triggered Ethernet 2012 , Multi-rate fluid scheduling of mixed-criticality systems on multiprocessors. <i>Real-Time Systems</i> , 2018 , 54, 247-277 Efficient Schedulability Test for Dynamic-Priority Scheduling of Mixed-Criticality Real-Time		2
12 11 10	Model-based analysis of Timed-Triggered Ethernet 2012, Multi-rate fluid scheduling of mixed-criticality systems on multiprocessors. <i>Real-Time Systems</i> , 2018, 54, 247-277 Efficient Schedulability Test for Dynamic-Priority Scheduling of Mixed-Criticality Real-Time Systems. <i>Transactions on Embedded Computing Systems</i> , 2018, 17, 1-24	1.8	2 2 1
12 11 10	Model-based analysis of Timed-Triggered Ethernet 2012, Multi-rate fluid scheduling of mixed-criticality systems on multiprocessors. <i>Real-Time Systems</i> , 2018, 54, 247-277 Efficient Schedulability Test for Dynamic-Priority Scheduling of Mixed-Criticality Real-Time Systems. <i>Transactions on Embedded Computing Systems</i> , 2018, 17, 1-24 . <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2018, 37, 2720-2731 Flow Network Models for Online Scheduling Real-Time Tasks on Multiprocessors. <i>IEEE Access</i> , 2020,	1.8	2 2 1
12 11 10 9 8	Model-based analysis of Timed-Triggered Ethernet 2012, Multi-rate fluid scheduling of mixed-criticality systems on multiprocessors. <i>Real-Time Systems</i> , 2018, 54, 247-277 Efficient Schedulability Test for Dynamic-Priority Scheduling of Mixed-Criticality Real-Time Systems. <i>Transactions on Embedded Computing Systems</i> , 2018, 17, 1-24 . <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2018, 37, 2720-2731 Flow Network Models for Online Scheduling Real-Time Tasks on Multiprocessors. <i>IEEE Access</i> , 2020, 8, 172136-172151 Towards compositional mixed-criticality real-time scheduling in open systems. <i>ACM SIGBED Review</i> ,	1.8 2.5 3·5	2 2 1 1

4	Towards Overhead-Free Interface Theory for Compositional Hierarchical Real-Time Systems. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2018 , 37, 2869-2880	2.5	1
3	Design of an online-tuned model based compound controller for a fully automated artificial pancreas. <i>Medical and Biological Engineering and Computing</i> , 2019 , 57, 1437-1449	3.1	O
2	Resilience Bounds of Network Clock Synchronization with Fault Correction. <i>ACM Transactions on Sensor Networks</i> , 2020 , 16, 1-30	2.9	0
1	Guest Editor Introduction. <i>IEEE Embedded Systems Letters</i> , 2019 , 11, 33-33	1	