Arvind Easwaran

List of Publications by Year in Descending Order

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Version: 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

75 papers	936 citations	16 h-index	27 g-index
91 ext. papers	1,185 ext. citations	2.6 avg, IF	4.7 L-index

#	Paper	IF	Citations
75	A Game-Theoretic Approach to Secure Estimation and Control for Cyber-Physical Systems with a Digital Twin **2020**,		2
74	A Scenario-Based Branch-and-Bound Approach for MES Scheduling in Urban Buildings. *IEEE Transactions on Industrial Informatics*, **2020**, 16, 7510-7520	11.9	6
73	Real-Time Energy Monitoring in IoT-enabled Mobile Devices **2020**,		2
72	SlotSwapper. *ACM SIGBED Review*, **2020**, 16, 32-37	1.3	3
71	Resilience Bounds of Network Clock Synchronization with Fault Correction. *ACM Transactions on Sensor Networks*, **2020**, 16, 1-30	2.9	0
70	Crossbar-Constrained Technology Mapping for ReRAM Based In-Memory Computing. *IEEE Transactions on Computers*, **2020**, 69, 734-748	2.5	5
69	Flow Network Models for Online Scheduling Real-Time Tasks on Multiprocessors. *IEEE Access*, **2020**, 8, 172136-172151	3.5	1
68	PAC Model Checking of Black-Box Continuous-Time Dynamical Systems. *IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems*, **2020**, 39, 3944-3955	2.5	3
67	A schedule randomization policy to mitigate timing attacks in WirelessHART networks. *Real-Time Systems*, **2020**, 56, 452-489	1.3	3
66	. *IEEE Transactions on Parallel and Distributed Systems*, **2020**, 31, 171-186	3.7	7
65	A Practical Degradation Model for Mixed-Criticality Systems **2019**,		3
64	A hierarchical framework for holistic optimization of the operations of district cooling systems. *Applied Energy*, **2019**, 239, 23-40	10.7	14
63	Towards safe machine learning for CPS **2019**,		10
62	Design of an online-tuned model based compound controller for a fully automated artificial pancreas. *Medical and Biological Engineering and Computing*, **2019**, 57, 1437-1449	3.1	0
61	Dynamic budget management and budget reclamation for mixed-criticality systems. *Real-Time Systems*, **2019**, 55, 552-597	1.3	5
60	Challenges in Digital Twin Development for Cyber-Physical Production Systems. *Lecture Notes in Computer Science*, **2019**, 28-48	0.9	6
59	Probably Approximate Safety Verification of Hybrid Dynamical Systems. *Lecture Notes in Computer Science*, **2019**, 236-252	0.9	3

58	Guest Editor Introduction. *IEEE Embedded Systems Letters*, **2019**, 11, 33-33	1	
57	Combining Task-level and System-level Scheduling Modes for Mixed Criticality Systems **2019**,		1
56	TiLA: Twin-in-the-Loop Architecture for Cyber-Physical Production Systems **2019**,		6
55	Managing Industrial Communication Delays with Software-Defined Networking **2019**,		7
54	Automatic Generation of Hierarchical Contracts for Resilience in Cyber-Physical Systems **2019**,		1
53	Flow Network-Based Real-Time Scheduling for Reducing Static Energy Consumption on Multiprocessors. *IEEE Access*, **2019**, 7, 1330-1344	3.5	3
52	Contract-Based Methodology for Developing Resilient Cyber-Infrastructure in the Industry 4.0 Era. *IEEE Embedded Systems Letters*, **2019**, 11, 5-8	1	3
51	Efficient Schedulability Test for Dynamic-Priority Scheduling of Mixed-Criticality Real-Time Systems. *Transactions on Embedded Computing Systems*, **2018**, 17, 1-24	1.8	1
50	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
49	MC-Fluid: Multi-Core Fluid-Based Mixed-Criticality Scheduling. *IEEE Transactions on Computers*, **2018**, 67, 469-483	2.5	3
48	. *IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems*, **2018**, 37, 2720-2731	2.5	1
47	Mixed-Criticality Scheduling on Multiprocessors with Service Guarantees **2018**,		7
46	**2018**,		2
45	Multi-rate fluid scheduling of mixed-criticality systems on multiprocessors. *Real-Time Systems*, **2018**, 54, 247-277	1.3	2
44	Contract-Based Hierarchical Resilience Management for Cyber-Physical Systems. *Computer*, **2018**, 51, 56-65	1.6	4
43	Towards Overhead-Free Interface Theory for Compositional Hierarchical Real-Time Systems. *IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems*, **2018**, 37, 2869-2880	2.5	1
42	A systematic security analysis of real-time cyber-physical systems **2017**,		5
41	Area-constrained technology mapping for in-memory computing using ReRAM devices **2017**,		8

40	Underapproximating Backward Reachable Sets by Semialgebraic Sets. *IEEE Transactions on Automatic Control*, **2017**, 62, 5185-5197	5.9	13
39	Efficient decentralized active balancing strategy for smart battery cells **2017**,		3
38	Probabilistic analysis for mixed criticality systems using fixed priority preemptive scheduling **2017**,		10
37	Utilization difference based partitioned scheduling of mixed-criticality systems **2017**,		5
36	Reach-Avoid Verification for Nonlinear Systems Based on Boundary Analysis. *IEEE Transactions on Automatic Control*, **2017**, 62, 3518-3523	5.9	14
35	Global EDF Schedulability Analysis for Parallel Tasks on Multi-Core Platforms. *IEEE Transactions on Parallel and Distributed Systems*, **2017**, 28, 1331-1345	3.7	18
34	Towards compositional mixed-criticality real-time scheduling in open systems. *ACM SIGBED Review*, **2016**, 13, 49-51	1.3	1
33	Dynamic Budget Management with Service Guarantees for Mixed-Criticality Systems **2016**,		16
32	Under-Approximating Backward Reachable Sets by Polytopes. *Lecture Notes in Computer Science*, **2016**, 457-476	0.9	19
31	Resource Efficient Isolation Mechanisms in Mixed-Criticality Scheduling **2015**,		27
30	. *IEEE Transactions on Computers*, **2015**, 64, 941-954	2.5	14
29	MC-Fluid: Simplified and Optimally Quantified **2015**,		25
28	MC-Fluid: Fluid Model-Based Mixed-Criticality Scheduling on Multiprocessors **2014**,		31
27	Contention-free executions for real-time multiprocessor scheduling. *Transactions on Embedded Computing Systems*, **2014**, 13, 1-25	1.8	8
26	Mapping Time-Critical Safety-Critical Cyber Physical Systems to Hybrid FPGAs **2014**,		10
25	Demand-Based Scheduling of Mixed-Criticality Sporadic Tasks on One Processor **2013**,		48
24	Global EDF Schedulability Analysis for Synchronous Parallel Tasks on Multicore Platforms **2013**,		40
23	Laxity dynamics and LLF schedulability analysis on multiprocessor platforms. *Real-Time Systems*, **2012**, 48, 716-749	1.3	11

22	Convex optimization framework for intermediate deadline assignment in soft and hard real-time distributed systems. *Journal of Systems and Software*, **2012**, 85, 2331-2339	3.3	5
21	Extending Task-level to Job-level Fixed Priority Assignment and Schedulability Analysis Using Pseudo-deadlines **2012**,		8
20	Model-based analysis of Timed-Triggered Ethernet **2012**,		2
19	Maximizing Contention-Free Executions in Multiprocessor Scheduling **2011**,		16
18	Zero-laxity based real-time multiprocessor scheduling. *Journal of Systems and Software*, **2011**, 84, 2324-2333	3.3	16
17	**2011**,		35
16	CARTS. *ACM SIGBED Review*, **2011**, 8, 62-63	1.3	18
15	Multiprocessor real-time scheduling considering concurrency and urgency. *ACM SIGBED Review*, **2010**, 7, 1-5	1.3	3
14	Online robust optimization framework for QoS guarantees in distributed soft real-time systems **2010**,		5
13	LLF Schedulability Analysis on Multiprocessor Platforms **2010**,		16
12	Provably good multiprocessor scheduling with resource sharing. *Real-Time Systems*, **2010**, 46, 153-159	1.3	12
11	Resource Sharing in Global Fixed-Priority Preemptive Multiprocessor Scheduling **2009**,		44
10	Scheduling Sporadic Tasks on Multiprocessors with Mutual Exclusion Constraints **2009**,		2
9	Optimal virtual cluster-based multiprocessor scheduling. *Real-Time Systems*, **2009**, 43, 25-59	1.3	46
8	A Compositional Scheduling Framework for Digital Avionics Systems **2009**,		30
7	Hierarchical Scheduling Framework for Virtual Clustering of Multiprocessors **2008**,		87
6	Compositional Feasibility Analysis of Conditional Real-Time Task Models **2008**,		12
5	Compositional Analysis Framework Using EDP Resource Models **2007**,		73

4	Compositional Schedulability Analysis of Hierarchical Real-Time Systems **2007**,		16
3	Incremental schedulability analysis of hierarchical real-time components **2006**,		23
2	Steering of Discrete Event Systems: Control Theory Approach. *Electronic Notes in Theoretical Computer Science*, **2006**, 144, 21-39	0.7	12
1	Simulation of Simultaneous Events in Regular Expressions for Run-Time Verification. *Electronic Notes in Theoretical Computer Science*, **2005**, 113, 123-143	0.7	5