

# Samarjit Chakraborty

## List of Publications by Citations

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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.

232 papers	2,286 citations	22 h-index	32 g-index
309 ext. papers	2,968 ext. citations	2.2 avg, IF	5.09 L-index

#	Paper	IF	Citations
232	A general framework for analysing system properties in platform-based embedded system designs		117
231	Performance evaluation of network processor architectures: combining simulation with analytical estimation. <i>Computer Networks</i> , <b>2003</b> , 41, 641-665	5.4	59
230	Design and architectures for dependable embedded systems <b>2011</b> ,		58
229	Security challenges in automotive hardware/software architecture design <b>2013</b> ,		53
228	A hybrid approach to cyber-physical systems verification <b>2012</b> ,		41
227	Automotive CyberPhysical Systems: A Tutorial Introduction. <i>IEEE Design and Test</i> , <b>2016</b> , 33, 92-108	1.4	41
226	Security in Automotive Networks. <i>ACM Transactions on Design Automation of Electronic Systems</i> , <b>2017</b> , 22, 1-27	1.5	37
225	Embedded systems and software challenges in electric vehicles <b>2012</b> ,		36
224	Task- and network-level schedule co-synthesis of Ethernet-based time-triggered systems <b>2014</b> ,		32
223	Control theory-based DVS for interactive 3D games <b>2008</b> ,		32
222	Games are up for DVFS <b>2006</b> ,		32
221	Smart Cells for Embedded Battery Management <b>2014</b> ,		31
220	Safety Evaluation of Automotive Electronics Using Virtual Prototypes <b>2014</b> ,		27
219	Automotive Electrical and Electronic Architecture Security via Distributed In-Vehicle Traffic Monitoring. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2017</b> , 36, 1790-1803	2.5	26
218	Modular Active Charge Balancing for Scalable Battery Packs. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , <b>2017</b> , 25, 974-987	2.6	26
217	Relaxing Signal Delay Constraints in Distributed Embedded Controllers. <i>IEEE Transactions on Control Systems Technology</i> , <b>2014</b> , 22, 2337-2345	4.8	26
216	Modular scheduling of distributed heterogeneous time-triggered automotive systems <b>2012</b> ,		26

215	Challenges in automotive cyber-physical systems design <b>2012</b> ,		25
214	Performance analysis of FlexRay-based ECU networks. <i>Proceedings - Design Automation Conference</i> , <b>2007</b> ,		25
213	Security analysis of automotive architectures using probabilistic model checking <b>2015</b> ,		24
212	Lightweight graphics instrumentation for game state-specific power management in Android. <i>Multimedia Systems</i> , <b>2014</b> , 20, 563-578	2.2	23
211	Resource-aware Automotive Control Systems Design: A Cyber-Physical Systems Approach. <i>Foundations and Trends in Electronic Design Automation</i> , <b>2016</b> , 10, 249-369	1	23
210	Heat exchanger network synthesis: the possibility of randomization. <i>Chemical Engineering Journal</i> , <b>1999</b> , 72, 209-216	14.7	22
209	Resource Augmentation Bounds for Approximate Demand Bound Functions <b>2011</b> ,		21
208	Time-triggered implementations of mixed-criticality automotive software <b>2012</b> ,		21
207	Embedded Software in Network Processors [Models and Algorithms. <i>Lecture Notes in Computer Science</i> , <b>2001</b> , 416-434	0.9	21
206	A Hybrid DVS Scheme for Interactive 3D Games <b>2008</b> ,		20
205	Power Management of Interactive 3D Games Using Frame Structures <b>2008</b> ,		20
204	Distributed reconfigurable Battery System Management Architectures <b>2016</b> ,		20
203	Neighbor Discovery Latency in BLE-Like Protocols. <i>IEEE Transactions on Mobile Computing</i> , <b>2018</b> , 17, 617-631	4.1	20
202	Lightweight Authentication for Secure Automotive Networks <b>2015</b> ,		19
201	LMS-based low-complexity game workload prediction for DVFS <b>2010</b> ,		19
200	Interface-Based Rate Analysis of Embedded Systems <b>2006</b> ,		19
199	DVS for buffer-constrained architectures with predictable QoS-energy tradeoffs <b>2005</b> ,		19
198	Multi-layered scheduling of mixed-criticality cyber-physical systems. <i>Journal of Systems Architecture</i> , <b>2013</b> , 59, 1215-1230	5.5	18

197	System architecture and software design for electric vehicles <b>2013</b> ,		18
196	Modular system-level architecture for concurrent cell balancing <b>2013</b> ,		18
195	Co-design of cyber-physical systems via controllers with flexible delay constraints <b>2011</b> ,		18
194	<b>2007</b> ,		18
193			18
192	Tuning SoC platforms for multimedia processing <b>2004</b> ,		18
191	Memory-Aware Embedded Control Systems Design. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2017</b> , 36, 586-599	2.5	17
190	Context-sensitive timing analysis of Esterel programs <b>2009</b> ,		17
189	Schedulability analysis of non-preemptive recurring real-time tasks <b>2006</b> ,		17
188	Reliability challenges for electric vehicles <b>2013</b> ,		16
187	Optimizing hierarchical schedules for improved control performance <b>2010</b> ,		16
186	Constraint-driven synthesis and tool-support for FlexRay-based automotive control systems <b>2011</b> ,		16
185	A Multi-mode Real-Time Calculus <b>2008</b> ,		16
184	Performance analysis of multiprocessor DSPs: a stream-oriented component model. <i>IEEE Signal Processing Magazine</i> , <b>2005</b> , 22, 38-46	9-4	16
183	Multi-Objective Co-Optimization of FlexRay-Based Distributed Control Systems <b>2016</b> ,		15
182	Performance debugging of Esterel specifications <b>2008</b> ,		15
181	A framework for evaluating design tradeoffs in packet processing architectures. <i>Proceedings - Design Automation Conference</i> , <b>2002</b> ,		15
180	. <i>IEEE Transactions on Computers</i> , <b>2017</b> , 66, 1790-1803	2.5	14

179	Battery assignment and scheduling for drone delivery businesses <b>2017</b> ,		14
178	A new task model for streaming applications and its schedulability analysis		14
177	Rate analysis for streaming applications with on-chip buffer constraints		14
176	On Battery Recovery Effect in Wireless Sensor Nodes. <i>ACM Transactions on Design Automation of Electronic Systems</i> , <b>2016</b> , 21, 1-28	1.5	14
175	On the Complexity of Scheduling Conditional Real-Time Code. <i>Lecture Notes in Computer Science</i> , <b>2001</b> , 38-49	0.9	14
174	. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2017</b> , 36, 214-226	2.5	13
173	Battery- and Aging-Aware Embedded Control Systems for Electric Vehicles <b>2014</b> ,		13
172	Partitioned Packing and Scheduling for Sporadic Real-Time Tasks in Identical Multiprocessor Systems <b>2012</b> ,		13
171	Schedulability Analysis for Processors with Aging-Aware Autonomic Frequency Scaling <b>2012</b> ,		13
170	Multirate controller design for resource- and schedule-constrained automotive ECUs <b>2013</b> ,		13
169	Composing Functional and State-Based Performance Models for Analyzing Heterogeneous Real-Time Systems <b>2007</b> ,		13
168	Cyber-Physical Co-Simulation Framework for Smart Cells in Scalable Battery Packs. <i>ACM Transactions on Design Automation of Electronic Systems</i> , <b>2016</b> , 21, 1-26	1.5	13
167	Cyber-Physical Systems Design for Electric Vehicles <b>2012</b> ,		12
166	VM-Based Real-Time Services for Automotive Control Applications <b>2010</b> ,		12
165	Computing Largest Common Point Sets under Approximate Congruence. <i>Lecture Notes in Computer Science</i> , <b>2000</b> , 52-64	0.9	12
164	Time Series Characterization of Gaming Workload for Runtime Power Management. <i>IEEE Transactions on Computers</i> , <b>2015</b> , 64, 260-273	2.5	11
163	Schedule Integration Framework for Time-Triggered Automotive Architectures <b>2014</b> ,		11
162	Using offline bitstream analysis for power-aware video decoding in portable devices <b>2005</b> ,		11

161	Reliable CPS Design for Mitigating Semiconductor and Battery Aging in Electric Vehicles <b>2015</b> ,		10
160	Semantics-Preserving Cosynthesis of Cyber-Physical Systems. <i>Proceedings of the IEEE</i> , <b>2018</b> , 106, 171-200	4.3	10
159	SOH-aware active cell balancing strategy for high power battery packs <b>2018</b> ,		10
158	Testing automotive embedded systems under X-in-the-loop setups <b>2016</b> ,		10
157	Griassdi <b>2017</b> ,		10
156	Managing power for closed-source android os games by lightweight graphics instrumentation <b>2012</b> ,		10
155	Power management using game state detection on android smartphones <b>2013</b> ,		10
154	Comparing Bluetooth HDP and SPP for Mobile Health Devices <b>2010</b> ,		10
153	Optimized Schedule Synthesis under Real-Time Constraints for the Dynamic Segment of FlexRay <b>2010</b> ,		10
152	Approximation Algorithms for 3-D Common Substructure Identification in Drug and Protein Molecules. <i>Lecture Notes in Computer Science</i> , <b>1999</b> , 253-264	0.9	10
151	Many-to-many active cell balancing strategy design <b>2015</b> ,		9
150	ExPerio [Exploiting periodicity for opportunistic energy-efficient data transmission <b>2015</b> ,		9
149	Open source model and simulator for real-time performance analysis of automotive network security. <i>ACM SIGBED Review</i> , <b>2016</b> , 13, 8-13	1.3	9
148	OS-Aware Automotive Controller Design Using Non-Uniform Sampling. <i>ACM Transactions on Cyber-Physical Systems</i> , <b>2018</b> , 2, 1-22	2.3	9
147	Design Methods for Augmented Reality In-Vehicle Infotainment Systems <b>2014</b> ,		9
146	Automatic generation of topological indoor maps for real-time map-based localization and tracking <b>2011</b> ,		9
145	The Arbitrated Networked Control Systems Approach to Designing Cyber-Physical Systems*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2012</b> , 45, 174-179		9
144	Timing Analysis of Mixed Time/Event-Triggered Multi-Mode Systems <b>2009</b> ,		9

143	Arbitrated Network Control Systems: A Co-Design of Control and Platform for Cyber-Physical Systems. <i>Lecture Notes in Control and Information Sciences</i> , <b>2013</b> , 339-356	0.5	9
142	Design space exploration of drone infrastructure for large-scale delivery services <b>2016</b> ,		9
141	Multischedule Synthesis for Variant Management in Automotive Time-Triggered Systems. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2016</b> , 35, 637-650	2.5	8
140	<b>2009</b> ,		8
139	Designing heterogeneous ECU networks via compact architecture encoding and hybrid timing analysis <b>2009</b> ,		8
138	Cache-aware timing analysis of streaming applications. <i>Real-Time Systems</i> , <b>2009</b> , 41, 52-85	1.3	8
137	Adaptive switching controllers for systems with hybrid communication protocols <b>2012</b> ,		8
136	Evaluating design trade-offs in customizable processors <b>2009</b> ,		8
135	Timing analysis of estereel programs on general-purpose multiprocessors <b>2010</b> ,		8
134	Energy Modeling for the Bluetooth Low Energy Protocol. <i>Transactions on Embedded Computing Systems</i> , <b>2020</b> , 19, 1-32	1.8	8
133	Frame-based and thread-based power management for mobile games on HMP platforms <b>2016</b> ,		8
132	Web browser workload characterization for power management on HMP platforms <b>2016</b> ,		8
131	Adaptive online power-management for Bluetooth Low Energy <b>2015</b> ,		7
130	Quantifying Notions of Extensibility in FlexRay Schedule Synthesis. <i>ACM Transactions on Design Automation of Electronic Systems</i> , <b>2014</b> , 19, 1-37	1.5	7
129	Video Quality Driven Buffer Sizing via Frame Drops <b>2011</b> ,		7
128	On the quantification of sustainability and extensibility of FlexRay schedules <b>2011</b> ,		7
127	Cross-layer analysis, testing and verification of automotive control software <b>2011</b> ,		7
126	Approximate VCCs <b>2005</b> ,		7

125	Model-based design of resource-efficient automotive control software <b>2016</b> ,		7
124	<b>2019</b> ,		7
123	Smart2: Smart Charging for Smart Phones <b>2015</b> ,		6
122	Resource augmentation for uniprocessor and multiprocessor partitioned scheduling of sporadic real-time tasks. <i>Real-Time Systems</i> , <b>2013</b> , 49, 475-516	1.3	6
121	Schedule integration for time-triggered systems <b>2013</b> ,		6
120	AR-IVI Implementation of In-Vehicle Augmented Reality <b>2014</b> ,		6
119	<b>2014</b> ,		6
118	Performance debugging of Esterel specifications. <i>Real-Time Systems</i> , <b>2012</b> , 48, 570-600	1.3	6
117	Constant-time admission control for Deadline Monotonic tasks <b>2010</b> ,		6
116	High-level timing analysis of concurrent applications on MPSoC platforms using memory-aware trace-driven simulations <b>2010</b> ,		6
115	On buffering with stochastic guarantees in resource-constrained media players <b>2011</b> ,		6
114	Designing VM schedulers for embedded real-time applications <b>2011</b> ,		6
113	Concurrent architecture and schedule optimization of time-triggered automotive systems <b>2012</b> ,		6
112	Timing analysis of cyber-physical applications for hybrid communication protocols <b>2012</b> ,		6
111	Dynamic Alternation of Huffman Codebooks for Sensor Data Compression. <i>IEEE Embedded Systems Letters</i> , <b>2017</b> , 9, 81-84	1	5
110	Tighter Dimensioning of Heterogeneous Multi-Resource Autonomous CPS with Control Performance Guarantees <b>2019</b> ,		5
109	TIC: a scalable model checking based approach to WCET estimation <b>2016</b> ,		5
108	Optimal Dimensioning and Control of Active Cell Balancing Architectures. <i>IEEE Transactions on Vehicular Technology</i> , <b>2019</b> , 68, 9632-9646	6.8	5



107	Priority assignment for event-triggered systems using mathematical programming <b>2013</b> ,		5
106	Policy-based message scheduling using FlexRay <b>2014</b> ,		5
105	The Medical Cyber-physical Systems Activity at EIT: A Look under the Hood <b>2014</b> ,		5
104	Model-based development and verification of control software for electric vehicles <b>2013</b> ,		5
103	Multiprocessor extensions to real-time calculus. <i>Real-Time Systems</i> , <b>2011</b> , 47, 562-617	1.3	5
102	Schedulability analysis of distributed cyber-physical applications on mixed time-/event-triggered bus architectures with retransmissions <b>2011</b> ,		5
101	Robust image processing for an omnidirectional camera-based smart car door. <i>Transactions on Embedded Computing Systems</i> , <b>2012</b> , 11, 1-28	1.8	5
100	GPU-based Acceleration of System-level Design Tasks. <i>International Journal of Parallel Programming</i> , <b>2010</b> , 38, 225-253	1.5	5
99	Fast Schedulability Analysis Using Commodity Graphics Hardware. <i>Gifted and Talented International</i> , <b>2007</b> ,	1	5
98	. <i>IEEE Design and Test of Computers</i> , <b>2004</b> , 21, 368-377		5
97	Processor frequency selection for SoC platforms for multimedia applications		5
96	TTW: A Time-Triggered Wireless design for CPS <b>2018</b> ,		5
95	Extensibility-Driven Automotive In-Vehicle Architecture Design <b>2017</b> ,		4
94	On optimal neighbor discovery <b>2019</b> ,		4
93	Formal verification of distributed controllers using Time-Stamped Event Count Automata <b>2013</b> ,		4
92	Inductor Optimization for Active Cell Balancing using Geometric Programming <b>2015</b> ,		4
91	Fault-tolerant embedded control systems for unreliable hardware <b>2014</b> ,		4
90	Constant-Time Admission Control for Partitioned EDF <b>2010</b> ,		4

89	FlexRay switch scheduling <i>IA</i> networking concept for electric vehicles <b>2011</b> ,		4
88	Lightweight Modeling of Complex State Dependencies in Stream Processing Systems <b>2009</b> ,		4
87	Accelerating System-Level Design Tasks Using Commodity Graphics Hardware: A Case Study <b>2009</b> ,		4
86	Intra- and inter-processor hybrid performance modeling for MPSoC architectures <b>2008</b> ,		4
85	GigE Vision Data Acquisition for Visual Servoing using SG/DMA Proxying <b>2016</b> ,		4
84	Schedule Management Framework for Cloud-Based Future Automotive Software Systems <b>2016</b> ,		4
83	Optimal dimensioning of active cell balancing architectures <b>2014</b> ,		3
82	Fault-tolerant control synthesis and verification of distributed embedded systems <b>2014</b> ,		3
81	Compositional analysis of switched Ethernet topologies <b>2013</b> ,		3
80	Rapid Analysis of Active Cell Balancing Circuits. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2017</b> , 36, 694-698	2.5	3
79	Effectively utilizing elastic resources in networked control systems <b>2017</b> ,		3
78	Guest Editorial Special Section on Automotive Embedded Systems and Software. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2015</b> , 34, 1701-1703	2.5	3
77	Timing challenges in automotive software architectures <b>2014</b> ,		3
76	Reliability-Aware Instruction Set Customization for ASIPs with Hardened Logic <b>2012</b> ,		3
75	Program-aware circuit level timing analysis <b>2011</b> ,		3
74	Schedulability Analysis of MSC-based System Models <b>2008</b> ,		3
73	Application-specific workload shaping in multimedia-enabled personal mobile devices. <i>Transactions on Embedded Computing Systems</i> , <b>2008</b> , 7, 1-22	1.8	3
72	Reducing data-memory footprint of multimedia applications by delay redistribution. <i>Proceedings - Design Automation Conference</i> , <b>2007</b> ,		3

71	Interactive Schedulability Analysis		3
70	Generating an action notation environment from Montages descriptions. <i>International Journal on Software Tools for Technology Transfer</i> , <b>2001</b> , 3, 431-455	1.3	3
69	CPS-oriented Modeling and Control of Traffic Signals Using Adaptive Back Pressure <b>2020</b> ,		3
68	How reliable is smartphone-based electronic contact tracing for COVID-19?. <i>Communications of the ACM</i> , <b>2022</b> , 65, 56-67	2.5	3
67	Control/Architecture Codesign for Cyber-Physical Systems <b>2017</b> , 1221-1260		3
66	Automated synthesis of cyber-physical systems from joint controller/architecture specifications <b>2016</b> ,		3
65	Unsupervised and Supervised Learning with the Random Forest Algorithm for Traffic Scenario Clustering and Classification <b>2019</b> ,		3
64	Multi-Pattern Active Cell Balancing Architecture and Equalization Strategy for Battery Packs <b>2018</b> ,		3
63	In Situ Latency Monitoring for Heterogeneous Real-Time Systems <b>2019</b> ,		2
62	Efficient lossless compression for depth information in traffic scenarios. <i>Multimedia Systems</i> , <b>2019</b> , 25, 293-306	2.2	2
61	User-centric Resource Management for Embedded Multi-core Processors <b>2020</b> ,		2
60	Design optimization of photovoltaic arrays on curved surfaces <b>2018</b> ,		2
59	Optimal dimensioning of active cell balancing architectures <b>2014</b> ,		2
58	Decentralized diagnosis of permanent faults in automotive E/E architectures <b>2015</b> ,		2
57	Dynamic Platforms for Uncertainty Management in Future Automotive E/E Architectures <b>2017</b> ,		2
56	Estimating the Limits of CPU Power Management for Mobile Games <b>2017</b> ,		2
55	Hybrid Apps: Apps for the Internet of Things <b>2015</b> ,		2
54	Reconfigurable Communication Middleware for Flex Ray-Based Distributed Embedded Systems <b>2015</b> ,		2

53	Aging mitigation of power supply-connected batteries <b>2014</b> ,		2
52	Stochastic modeling and performance analysis of multimedia SoCs <b>2013</b> ,		2
51	How to engineer tool-chains for automotive E/E architectures?. <i>ACM SIGBED Review</i> , <b>2013</b> , 10, 6-15	1.3	2
50	Dimensioning and configuration of EES systems for electric vehicles with boundary-conditioned adaptive scalarization <b>2013</b> ,		2
49	Timing and schedulability analysis for distributed automotive control applications <b>2011</b> ,		2
48	Design space exploration of instruction set customizable MPSoCs for multimedia applications <b>2010</b> ,		2
47	Shadow-based vehicle model refinement and tracking in advanced automotive driver assistance systems <b>2011</b> ,		2
46	Application-specific workload shaping in multimedia-enabled personal mobile devices <b>2006</b> ,		2
45	Performance Debugging of Real-Time Systems Using Multicriteria Schedulability Analysis <b>2007</b> ,		2
44	Analytic curve detection from a noisy binary edge map using genetic algorithm. <i>Lecture Notes in Computer Science</i> , <b>1998</b> , 129-138	0.9	2
43	Optimizing BLE-Like Neighbor Discovery. <i>IEEE Transactions on Mobile Computing</i> , <b>2020</b> , 1-1	4.6	2
42	A Programmable Open Architecture Testbed for CPS Education. <i>IEEE Design and Test</i> , <b>2020</b> , 37, 31-38	1.4	2
41	Intelligent Chargers Will Make Mobile Devices Live Longer. <i>IEEE Design and Test</i> , <b>2020</b> , 37, 42-49	1.4	2
40	EGON: Portable in-situ energy measurement for low-power sensor devices <b>2016</b> ,		2
39	Timing Debugging for Cyber-Physical Systems <b>2021</b> ,		2
38	Design automation for battery systems <b>2018</b> ,		2
37	Design and validation of fault-tolerant embedded controllers <b>2018</b> ,		2
36	Debugging FPGA-accelerated Real-time Systems <b>2020</b> ,		1

35	Cache-aware task scheduling for maximizing control performance <b>2018</b> ,		1
34	Exploiting System Dynamics for Resource-Efficient Automotive CPS Design <b>2019</b> ,		1
33	WCET Analysis meets Virtual Prototyping <b>2019</b> ,		1
32	Understanding slotless neighbor discovery <b>2017</b> ,		1
31	Specification, Verification and Design of Evolving Automotive Software <b>2017</b> ,		1
30	Customizing Instruction Set Extensible Reconfigurable Processors Using GPUs <b>2012</b> ,		1
29	Cache-aware optimization of BAN applications. <i>Design Automation for Embedded Systems</i> , <b>2009</b> , 13, 159-178	1	1
28	Near-Optimal Constant-Time Admission Control for DM Tasks via Non-uniform Approximations <b>2011</b> ,		1
27	Cache-Aware Timing Analysis of Streaming Applications. <i>Real-Time Systems (ECRTS), Proceedings of the Euromicro Workshop on</i> , <b>2007</b> ,		1
26	A perception-aware low-power software audio decoder for portable devices <b>2005</b> ,		1
25	Meeting CPU constraints by delaying playout of multimedia tasks <b>2005</b> ,		1
24	Power-aware bandwidth and stereo-image scalable audio decoding <b>2005</b> ,		1
23	Introduction to the Special Issue on Transportation Cyber-Physical Systems. <i>ACM Transactions on Cyber-Physical Systems</i> , <b>2020</b> , 4, 1-3	2.3	1
22	Stixel on the Bus: An Efficient Lossless Compression Scheme for Depth Information in Traffic Scenarios. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 568-579	0.9	1
21	Approaches for Software Verification of An Emergency Recovery System for Micro Air Vehicles. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 369-385	0.9	1
20	Model-Based Object Recognition from a Complex Binary Imagery Using Genetic Algorithm. <i>Lecture Notes in Computer Science</i> , <b>1999</b> , 150-161	0.9	1
19	An Interface Algebra for Estimating Worst-Case Traversal Times in Component Networks. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 198-213	0.9	1
18	Interface-Based Design of Real-Time Systems <b>2012</b> , 83-101		1

17	Exploration of Distributed Automotive Systems Using Compositional Timing Analysis. <i>Embedded Systems</i> , <b>2014</b> , 189-204		1
16	In-Vehicle Object-Level 3D Reconstruction of Traffic Scenes. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2020</b> , 1-13	6.1	1
15	UBAR. <i>Transactions on Embedded Computing Systems</i> , <b>2021</b> , 20, 1-25	1.8	1
14	. <i>IEEE Transactions on Computers</i> , <b>2021</b> , 70, 1059-1073	2.5	1
13	Scalable and precise estimation and debugging of the worst-case execution time for analysis-friendly processors: a comeback of model checking. <i>International Journal on Software Tools for Technology Transfer</i> , <b>2019</b> , 21, 515-543	1.3	0
12	Interactive schedulability analysis. <i>Transactions on Embedded Computing Systems</i> , <b>2007</b> , 7, 1-27	1.8	0
11	Development and Verification of a Flight Stack for a High-Altitude Glider in Ada/SPARK 2014. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 105-116	0.9	0
10	Tuning Machine-Learning Algorithms for Battery-Operated Portable Devices. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 502-513	0.9	0
9	Design Automation for Energy Storage Systems <b>2019</b> , 261-286		
8	EMSOFT 2009 guest editors' Introduction. <i>Design Automation for Embedded Systems</i> , <b>2010</b> , 14, 163-164	0.6	
7	Editorial for the Special Issue on Field Programmable Technology. <i>Journal of Signal Processing Systems</i> , <b>2007</b> , 47, 1-2		
6	Tool Integration for Automated Synthesis of Distributed Embedded Controllers. <i>ACM Transactions on Cyber-Physical Systems</i> , <b>2022</b> , 6, 1-31	2.3	
5	Performance Debugging of Heterogeneous Real-Time Systems <b>2007</b> , 285-300		
4	Reliable CPS Design for Unreliable Hardware Platforms. <i>Embedded Systems</i> , <b>2021</b> , 545-563		
3	Control/Architecture Codesign for Cyber-Physical Systems <b>2016</b> , 1-40		
2	Mobile Phone Assisted Cooperative On-Node Processing for Physical Activity Monitoring. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 239-251	0.9	
1	Guest Editors' Introduction: Cross-Layer Design of Cyber-Physical Systems. <i>IEEE Design and Test</i> , <b>2021</b> , 38, 5-7	1.4	