

# Samarjit Chakraborty

## List of Publications by Year in descending order

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304  
papers

3,528  
citations

361413

20  
h-index

454955

30  
g-index

310  
all docs

310  
docs citations

310  
times ranked

1912  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimizing BLE-Like Neighbor Discovery. IEEE Transactions on Mobile Computing, 2022, 21, 1779-1797.	5.8	7
2	Tool Integration for Automated Synthesis of Distributed Embedded Controllers. ACM Transactions on Cyber-Physical Systems, 2022, 6, 1-31.	2.5	0
3	How reliable is smartphone-based electronic contact tracing for COVID-19?. Communications of the ACM, 2022, 65, 56-67.	4.5	16
4	In-Vehicle Object-Level 3D Reconstruction of Traffic Scenes. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 7747-7759.	8.0	7
5	Control Performance Optimization for Application Integration on Automotive Architectures. IEEE Transactions on Computers, 2021, 70, 1059-1073.	3.4	6
6	Perception Computing-Aware Controller Synthesis for Autonomous Systems. , 2021, , .		2
7	Timing-Predictable Vision Processing for Autonomous Systems. , 2021, , .		1
8	Timing Debugging for Cyber-Physical Systems. , 2021, , .		6
9	Proactive feedback for networked CPS. , 2021, , .		0
10	LIBAR. Transactions on Embedded Computing Systems, 2021, 20, 1-25.	2.9	5
11	Guest Editorsâ€™ Introduction: Cross-Layer Design of Cyberâ€™Physical Systems. IEEE Design and Test, 2021, 38, 5-7.	1.2	0
12	Reliable CPS Design for Unreliable Hardware Platforms. Embedded Systems, 2021, , 545-563.	0.6	0
13	A Programmable Open Architecture Testbed for CPS Education. IEEE Design and Test, 2020, 37, 31-38.	1.2	3
14	Intelligent Chargers Will Make Mobile Devices Live Longer. IEEE Design and Test, 2020, 37, 42-49.	1.2	5
15	Predictable Vision for Autonomous Systems. , 2020, , .		3
16	BrezeFlow: Unified Debugger for Android CPU Power Governors and Schedulers on Edge Devices. , 2020, , .		1
17	User-centric Resource Management for Embedded Multi-core Processors. , 2020, , .		4
18	Debugging FPGA-accelerated Real-time Systems. , 2020, , .		3

#	ARTICLE	IF	CITATIONS
19	Energy Modeling for the Bluetooth Low Energy Protocol. Transactions on Embedded Computing Systems, 2020, 19, 1-32.	2.9	16
20	Towards Building Better Mobile Web Browsers for Ad Blocking. , 2020, , .		2
21	Configuring loosely time-triggered wireless control software. , 2020, , .		0
22	GoodSpread: Criticality-Aware Static Scheduling of CPS with Multi-QoS Resources. , 2020, , .		3
23	Introduction to the Special Issue on Transportation Cyber-Physical Systems. ACM Transactions on Cyber-Physical Systems, 2020, 4, 1-3.	2.5	11
24	CPS-oriented Modeling and Control of Traffic Signals Using Adaptive Back Pressure. , 2020, , .		7
25	Design- Time Optimization of Reconfigurable PV Architectures for Irregular Surfaces. , 2020, , .		2
26	Scalable and precise estimation and debugging of the worst-case execution time for analysis-friendly processors: a comeback of model checking. International Journal on Software Tools for Technology Transfer, 2019, 21, 515-543.	1.9	2
27	Cost-Effective Energy Monitoring of a Zynq-Based Real-Time System Including Dual Gigabit Ethernet. , 2019, , .		5
28	Exploiting System Dynamics for Resource-Efficient Automotive CPS Design. , 2019, , .		3
29	WCET Analysis meets Virtual Prototyping. , 2019, , .		1
30	Optimal Dimensioning and Control of Active Cell Balancing Architectures. IEEE Transactions on Vehicular Technology, 2019, 68, 9632-9646.	6.3	8
31	Imprecision in WCET estimates due to library calls and how to reduce it (WIP paper). , 2019, , .		0
32	On optimal neighbor discovery. , 2019, , .		15
33	Tighter Dimensioning of Heterogeneous Multi-Resource Autonomous CPS with Control Performance Guarantees. , 2019, , .		8
34	In Situ Latency Monitoring for Heterogeneous Real-Time Systems. , 2019, , .		5
35	Design Automation for Energy Storage Systems. , 2019, , 261-286.		0
36	Cost/Privacy Co-optimization in Smart Energy Grids. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
37	Efficient lossless compression for depth information in traffic scenarios. Multimedia Systems, 2019, 25, 293-306.	4.7	3
38	Security-Driven Codesign with Weakly-Hard Constraints for Real-Time Embedded Systems. , 2019, , .		15
39	Optimal Scheduling for Active Cell Balancing. , 2019, , .		0
40	Power-aware Reliable Communication for the IoT. , 2019, , .		0
41	Cross-Layer Interactions in CPS for Performance and Certification. , 2019, , .		3
42	Unsupervised and Supervised Learning with the Random Forest Algorithm for Traffic Scenario Clustering and Classification. , 2019, , .		14
43	Multi-Stage Optimization for Energy-Efficient Active Cell Balancing in Battery Packs. , 2019, , .		0
44	Challenges in IT Operations Management at a German University Chair “ Ten Years in Retrospect. , 2019, , .		0
45	Semantics-Preserving Cosynthesis of Cyber-Physical Systems. Proceedings of the IEEE, 2018, 106, 171-200.	21.3	17
46	SOH-aware active cell balancing strategy for high power battery packs. , 2018, , .		16
47	Design optimization of photovoltaic arrays on curved surfaces. , 2018, , .		3
48	Neighbor Discovery Latency in BLE-Like Protocols. IEEE Transactions on Mobile Computing, 2018, 17, 617-631.	5.8	42
49	Refining Task Specifications using Model Checking. , 2018, , .		0
50	TTW: A Time-Triggered Wireless design for CPS. , 2018, , .		7
51	Waterfall is too slow, let's go Agile. , 2018, , .		1
52	Design automation for battery systems. , 2018, , .		2
53	Multi-Pattern Active Cell Balancing Architecture and Equalization Strategy for Battery Packs. , 2018, , .		7
54	Multi-Domain Coupling for Automated Synthesis of Distributed Cyber-Physical Systems. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
55	Hardware-accelerated data acquisition and authentication for high-speed video streams on future heterogeneous automotive processing platforms. , 2018, , .		2
56	API for power-aware application design on mobile systems. , 2018, , .		1
57	Design and validation of fault-tolerant embedded controllers. , 2018, , .		4
58	OS-Aware Automotive Controller Design Using Non-Uniform Sampling. ACM Transactions on Cyber-Physical Systems, 2018, 2, 1-22.	2.5	15
59	Cache-aware task scheduling for maximizing control performance. , 2018, , .		2
60	Optimizing Worst-Case Execution Times Using Mainstream Compilers. , 2018, , .		1
61	Generalized Asynchronous Time-Triggered Scheduling for FlexRay. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2017, 36, 214-226.	2.7	16
62	Automotive Electrical and Electronic Architecture Security via Distributed In-Vehicle Traffic Monitoring. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2017, 36, 1790-1803.	2.7	44
63	Security in Automotive Networks. ACM Transactions on Design Automation of Electronic Systems, 2017, 22, 1-27.	2.6	54
64	VEGa: A High Performance Vehicular Ethernet Gateway on Hybrid FPGA. IEEE Transactions on Computers, 2017, 66, 1790-1803.	3.4	26
65	Dynamic Alternation of Huffman Codebooks for Sensor Data Compression. IEEE Embedded Systems Letters, 2017, 9, 81-84.	1.9	6
66	Sound4All: Towards affordable large-scale hearing screening. , 2017, , .		3
67	Extensibility-Driven Automotive In-Vehicle Architecture Design. , 2017, , .		4
68	Understanding slotless neighbor discovery. , 2017, , .		1
69	Battery assignment and scheduling for drone delivery businesses. , 2017, , .		20
70	Griassdi. , 2017, , .		17
71	Specification, Verification and Design of Evolving Automotive Software. , 2017, , .		2
72	Dynamic Platforms for Uncertainty Management in Future Automotive E/E Architectures. , 2017, , .		3

#	ARTICLE	IF	CITATIONS
73	Hybrid Automotive In-Vehicle Networks. , 2017, , .		1
74	Introduction to special section: Seismic inversion “ Conventional seismic impedance inversion and advanced seismic inversion techniques: Developments, workflow, and case studies. Interpretation, 2017, 5, SLi-SLii.	1.1	0
75	Modular Active Charge Balancing for Scalable Battery Packs. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2017, 25, 974-987.	3.1	44
76	Memory-Aware Embedded Control Systems Design. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2017, 36, 586-599.	2.7	25
77	Rapid Analysis of Active Cell Balancing Circuits. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2017, 36, 694-698.	2.7	13
78	Estimating the Limits of CPU Power Management for Mobile Games. , 2017, , .		5
79	Effectively utilizing elastic resources in networked control systems. , 2017, , .		6
80	EDA for cyber-physical systems. , 2017, , .		0
81	Stalwart. , 2017, , .		0
82	Control/Architecture Codesign for Cyber-Physical Systems. , 2017, , 1221-1260.		7
83	GigE Vision Data Acquisition for Visual Servoing using SG/DMA Proxying. , 2016, , .		8
84	EGON: Portable in-situ energy measurement for low-power sensor devices. , 2016, , .		2
85	Automated synthesis of cyber-physical systems from joint controller/architecture specifications. , 2016, , .		8
86	Frame-based and thread-based power management for mobile games on HMP platforms. , 2016, , .		12
87	Dynamic service switching for the medical IoT. , 2016, , .		4
88	Web browser workload characterization for power management on HMP platforms. , 2016, , .		15
89	Design space exploration of drone infrastructure for large-scale delivery services. , 2016, , .		11
90	Resource-aware Automotive Control Systems Design: A Cyber-Physical Systems Approach. Foundations and Trends in Electronic Design Automation, 2016, 10, 249-369.	1.0	34

#	ARTICLE	IF	CITATIONS
91	Model-based design of resource-efficient automotive control software. , 2016, , .		14
92	Automotive Cyber-Physical Systems: A Tutorial Introduction. IEEE Design and Test, 2016, 33, 92-108.	1.2	66
93	On Battery Recovery Effect in Wireless Sensor Nodes. ACM Transactions on Design Automation of Electronic Systems, 2016, 21, 1-28.	2.6	22
94	Distributed reconfigurable Battery System Management Architectures. , 2016, , .		34
95	Cyber-Physical Co-Simulation Framework for Smart Cells in Scalable Battery Packs. ACM Transactions on Design Automation of Electronic Systems, 2016, 21, 1-26.	2.6	19
96	Schedule Management Framework for Cloud-Based Future Automotive Software Systems. , 2016, , .		9
97	Dynamic service synthesis and switching for medical IoT and ambient assisted living. , 2016, , .		0
98	Testing automotive embedded systems under X-in-the-loop setups. , 2016, , .		18
99	Open source model and simulator for real-time performance analysis of automotive network security. ACM SIGBED Review, 2016, 13, 8-13.	1.8	13
100	TIC: a scalable model checking based approach to WCET estimation. , 2016, , .		8
101	Multi-Objective Co-Optimization of FlexRay-Based Distributed Control Systems. , 2016, , .		29
102	Trustworthy Cyber Physical Systems. , 2016, , .		0
103	Technologies for Safe and Intelligent Transportation Systems. , 2016, , .		1
104	Multischedule Synthesis for Variant Management in Automotive Time-Triggered Systems. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2016, 35, 637-650.	2.7	10
105	Control/Architecture Codesign for Cyber-Physical Systems. , 2016, , 1-40.		0
106	Decentralized diagnosis of permanent faults in automotive E/E architectures. , 2015, , .		2
107	Inductor Optimization for Active Cell Balancing using Geometric Programming. , 2015, , .		5
108	Lightweight Authentication for Secure Automotive Networks. , 2015, , .		25

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109	Timing Analysis of Safety-Critical Automotive Software: The AUTOSAFE Tool Flow. , 2015, , .		2
110	Message from the Program Chairs of ICESS 2015. , 2015, , .		0
111	Adaptive online power-management for Bluetooth Low Energy. , 2015, , .		18
112	Hybrid Apps: Apps for the Internet of Things. , 2015, , .		6
113	Guest Editorial Special Section on Automotive Embedded Systems and Software. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2015, 34, 1701-1703.	2.7	6
114	Reconfigurable Communication Middleware for Flex Ray-Based Distributed Embedded Systems. , 2015, , .		3
115	Many-to-many active cell balancing strategy design. , 2015, , .		15
116	Time Series Characterization of Gaming Workload for Runtime Power Management. IEEE Transactions on Computers, 2015, 64, 260-273.	3.4	18
117	Reliable CPS Design for Mitigating Semiconductor and Battery Aging in Electric Vehicles. , 2015, , .		10
118	Smart2: Smart Charging for Smart Phones. , 2015, , .		8
119	Composing real-time applications from communicating black-box components. , 2015, , .		0
120	ExPerio &#x2014; Exploiting periodicity for opportunistic energy-efficient data transmission. , 2015, , .		12
121	Security analysis of automotive architectures using probabilistic model checking. , 2015, , .		35
122	Approaches for Software Verification of An Emergency Recovery System for Micro Air Vehicles. Lecture Notes in Computer Science, 2015, , 369-385.	1.3	2
123	AR-IVI &#x2014; Implementation of In-Vehicle Augmented Reality. , 2014, , .		8
124	Design Methods for Augmented Reality In-Vehicle Infotainment Systems. , 2014, , .		9
125	Relaxing Signal Delay Constraints in Distributed Embedded Controllers. IEEE Transactions on Control Systems Technology, 2014, 22, 2337-2345.	5.2	43
126	Fault-tolerant embedded control systems for unreliable hardware. , 2014, , .		7



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127	Quantifying Notions of Extensibility in FlexRay Schedule Synthesis. ACM Transactions on Design Automation of Electronic Systems, 2014, 19, 1-37.	2.6	8
128	Diagnosis-aware system design for automotive E/E architectures. , 2014, , .		0
129	Safety Evaluation of Automotive Electronics Using Virtual Prototypes. , 2014, , .		42
130	Message from the Program and Track Chairs. , 2014, , .		0
131	Timing challenges in automotive software architectures. , 2014, , .		5
132	Aging mitigation of power supply-connected batteries. , 2014, , .		3
133	Policy-based message scheduling using FlexRay. , 2014, , .		6
134	The Medical Cyber-physical Systems Activity at EIT: A Look under the Hood. , 2014, , .		8
135	Implicit intermittent fault detection in distributed systems. , 2014, , .		4
136	Smart Cells for Embedded Battery Management. , 2014, , .		40
137	Forget the battery, let's play games!. , 2014, , .		9
138	Quality-aware video decoding on thermally-constrained MPSoC platforms. , 2014, , .		0
139	Automata-theoretic modeling of fixed-priority non-preemptive scheduling for formal timing verification. , 2014, , .		1
140	Task- and network-level schedule co-synthesis of Ethernet-based time-triggered systems. , 2014, , .		50
141	Schedule Integration Framework for Time-Triggered Automotive Architectures. , 2014, , .		15
142	Optimal dimensioning of active cell balancing architectures. , 2014, , .		3
143	Lightweight graphics instrumentation for game state-specific power management in Android. Multimedia Systems, 2014, 20, 563-578.	4.7	31
144	Fault-tolerant control synthesis and verification of distributed embedded systems. , 2014, , .		6

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145	Optimal dimensioning of active cell balancing architectures. , 2014, , .		2
146	Battery- and Aging-Aware Embedded Control Systems for Electric Vehicles. , 2014, , .		20
147	Stixel on the Bus: An Efficient Lossless Compression Scheme for Depth Information in Traffic Scenarios. Lecture Notes in Computer Science, 2014, , 568-579.	1.3	1
148	Exploration of Distributed Automotive Systems Using Compositional Timing Analysis. Embedded Systems, 2014, , 189-204.	0.6	2
149	Resource augmentation for uniprocessor and multiprocessor partitioned scheduling of sporadic real-time tasks. Real-Time Systems, 2013, 49, 475-516.	1.3	6
150	Formal verification of distributed controllers using Time-Stamped Event Count Automata. , 2013, , .		7
151	Schedule integration for time-triggered systems. , 2013, , .		8
152	Characterizing feedback signal drop patterns in formal verification of networked control systems. , 2013, , .		2
153	Compositional Analysis of Switched Ethernet Topologies. , 2013, , .		3
154	Quality-Aware Media Scheduling on MPSoC Platforms. , 2013, , .		0
155	Let's put the car in your phone!. , 2013, , .		2
156	Priority Assignment for Event-triggered Systems Using Mathematical Programming. , 2013, , .		5
157	Multi-layered scheduling of mixed-criticality cyber-physical systems. Journal of Systems Architecture, 2013, 59, 1215-1230.	4.3	27
158	Stochastic modeling and performance analysis of multimedia SoCs. , 2013, , .		5
159	Multirate Controller Design for Resource- and Schedule-Constrained Automotive ECUs. , 2013, , .		18
160	Reliability challenges for electric vehicles. , 2013, , .		26
161	Security Challenges in Automotive Hardware/Software Architecture Design. , 2013, , .		80
162	System architecture and software design for electric vehicles. , 2013, , .		34

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163	Modular system-level architecture for concurrent cell balancing. , 2013, , .		22
164	Power management using game state detection on android smartphones. , 2013, , .		13
165	Model-based development and verification of control software for electric vehicles. , 2013, , .		6
166	How to engineer tool-chains for automotive E/E architectures?. ACM SIGBED Review, 2013, 10, 6-15.	1.8	7
167	Dimensioning and configuration of EES systems for electric vehicles with boundary-conditioned adaptive scalarization. , 2013, , .		2
168	Arbitrated Network Control Systems: A Co-Design of Control and Platform for Cyber-Physical Systems. Lecture Notes in Control and Information Sciences, 2013, , 339-356.	1.0	12
169	Concurrent architecture and schedule optimization of time-triggered automotive systems. , 2012, , .		9
170	A hybrid approach to cyber-physical systems verification. , 2012, , .		60
171	Introduction to the Special Section on ESTIMedia™08. Transactions on Embedded Computing Systems, 2012, 11S, 1-2.	2.9	0
172	Robust image processing for an omnidirectional camera-based smart car door. Transactions on Embedded Computing Systems, 2012, 11, 1-28.	2.9	7
173	Time-triggered implementations of mixed-criticality automotive software. , 2012, , .		31
174	Adaptive switching controllers for systems with hybrid communication protocols. , 2012, , .		9
175	Adaptive switching controllers for tracking with hybrid communication protocols. , 2012, , .		1
176	Timing analysis of cyber-physical applications for hybrid communication protocols. , 2012, , .		6
177	The Arbitrated Networked Control Systems Approach to Designing Cyber-Physical Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 174-179.	0.4	11
178	Customizing Instruction Set Extensible Reconfigurable Processors Using GPUs. , 2012, , .		1
179	Anti-trap protection for an intelligent smart car door system. , 2012, , .		3
180	Motion stereo-based collision avoidance for an intelligent smart car door system. , 2012, , .		2

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181	Partitioned Packing and Scheduling for Sporadic Real-Time Tasks in Identical Multiprocessor Systems. , 2012, , .		15
182	Schedulability Analysis for Processors with Aging-Aware Autonomic Frequency Scaling. , 2012, , .		16
183	Reliability-Aware Instruction Set Customization for ASIPs with Hardened Logic. , 2012, , .		5
184	Managing power for closed-source android os games by lightweight graphics instrumentation. , 2012, , .		10
185	Modular scheduling of distributed heterogeneous time-triggered automotive systems. , 2012, , .		36
186	Cyber-Physical Systems Design for Electric Vehicles. , 2012, , .		17
187	Challenges in automotive cyber-physical systems design. , 2012, , .		37
188	Embedded systems and software challenges in electric vehicles. , 2012, , .		45
189	Performance debugging of Esterel specifications. Real-Time Systems, 2012, 48, 570-600.	1.3	11
190	Interface-Based Design of Real-Time Systems. , 2012, , 83-101.		2
191	Program-aware circuit level timing analysis. , 2011, , .		3
192	Resource Augmentation Bounds for Approximate Demand Bound Functions. , 2011, , .		25
193	Fast hybrid simulation for accurate decoded video quality assessment on MPSoC platforms with resource constraints. , 2011, , .		0
194	Video quality-driven buffer dimensioning in MPSoC platforms via prioritized frame drops. , 2011, , .		1
195	Co-design of cyber-physical systems via controllers with flexible delay constraints. , 2011, , .		21
196	FlexRay switch scheduling &#x2014; A networking concept for electric vehicles. , 2011, , .		8
197	Schedulability analysis of distributed cyber-physical applications on mixed time-/event-triggered bus architectures with retransmissions. , 2011, , .		9
198	Shadow-based vehicle model refinement and tracking in advanced automotive driver assistance systems. , 2011, , .		2

#	ARTICLE	IF	CITATIONS
199	Automatic generation of topological indoor maps for real-time map-based localization and tracking. , 2011, , .		14
200	Timing and schedulability analysis for distributed automotive control applications. , 2011, , .		5
201	Design and architectures for dependable embedded systems. , 2011, , .		73
202	Video Quality Driven Buffer Sizing via Frame Drops. , 2011, , .		10
203	Multiprocessor extensions to real-time calculus. Real-Time Systems, 2011, 47, 562-617.	1.3	7
204	On the quantification of sustainability and extensibility of FlexRay schedules. , 2011, , .		7
205	On buffering with stochastic guarantees in resource-constrained media players. , 2011, , .		6
206	Message from EUC 2011 General Chairs. , 2011, , .		0
207	Constraint-driven synthesis and tool-support for FlexRay-based automotive control systems. , 2011, , .		26
208	Cross-layer analysis, testing and verification of automotive control software. , 2011, , .		12
209	Designing VM schedulers for embedded real-time applications. , 2011, , .		8
210	Near-Optimal Constant-Time Admission Control for DM Tasks via Non-uniform Approximations. , 2011, , .		2
211	GPU-based Acceleration of System-level Design Tasks. International Journal of Parallel Programming, 2010, 38, 225-253.	1.5	6
212	EMSOFT 2009 guest editorsâ€™ introduction. Design Automation for Embedded Systems, 2010, 14, 163-164.	1.0	0
213	LMS-based low-complexity game workload prediction for DVFS. , 2010, , .		25
214	Design space exploration of instruction set customizable MPSoCs for multimedia applications. , 2010, , .		4
215	Multiprocessor system and software design for distributed control applications. , 2010, , .		0
216	Modeling buffers with data refresh semantics in automotive architectures. , 2010, , .		3

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217	Model-based analysis, synthesis and testing of automotive hardware/software architectures. , 2010, , .		1
218	Driver Body-Height Prediction for an Ergonomically Optimized Ingress Using a Single Omnidirectional Camera. , 2010, , .		1
219	Comparing Bluetooth HDP and SPP for Mobile Health Devices. , 2010, , .		12
220	VM-Based Real-Time Services for Automotive Control Applications. , 2010, , .		30
221	Exploiting GPU On-chip Shared Memory for Accelerating Schedulability Analysis. , 2010, , .		1
222	Optimizing hierarchical schedules for improved control performance. , 2010, , .		21
223	Constant-time admission control for Deadline Monotonic tasks. , 2010, , .		6
224	High-level timing analysis of concurrent applications on MPSoC platforms using memory-aware trace-driven simulations. , 2010, , .		11
225	Optimized Schedule Synthesis under Real-Time Constraints for the Dynamic Segment of FlexRay. , 2010, , .		14
226	Constant-Time Admission Control for Partitioned EDF. , 2010, , .		6
227	Timing analysis of estereel programs on general-purpose multiprocessors. , 2010, , .		11
228	Mobile Phone Assisted Cooperative On-Node Processing for Physical Activity Monitoring. Lecture Notes in Computer Science, 2010, , 239-251.	1.3	0
229	An Interface Algebra for Estimating Worst-Case Traversal Times in Component Networks. Lecture Notes in Computer Science, 2010, , 198-213.	1.3	1
230	Lightweight Modeling of Complex State Dependencies in Stream Processing Systems. , 2009, , .		7
231	Media processing challenges in today's (and tomorrow's) consumer SoCs. , 2009, , .		0
232	Multiprocessor Extensions to Real-Time Calculus. , 2009, , .		9
233	Robust image processing for an omnidirectional camera-based smart car door. , 2009, , .		5
234	Designing heterogeneous ECU networks via compact architecture encoding and hybrid timing analysis. , 2009, , .		14

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235	Context-sensitive timing analysis of Esterel programs. , 2009, , .		23
236	Cache-aware optimization of BAN applications. Design Automation for Embedded Systems, 2009, 13, 159-178.	1.0	1
237	Cache-aware timing analysis of streaming Applications. Real-Time Systems, 2009, 41, 52-85.	1.3	10
238	Evaluating design trade-offs in customizable processors. , 2009, , .		11
239	A DECOMSYS based tool-chain for analyzing FlexRay based automotive control applications. , 2009, , .		1
240	Power Management for Mobile Multimedia: From Audio to Video & Games. , 2009, , .		0
241	Accelerating System-Level Design Tasks Using Commodity Graphics Hardware: A Case Study. , 2009, , .		5
242	Timing Analysis of Mixed Time/Event-Triggered Multi-Mode Systems. , 2009, , .		17
243	Fast model-based test case classification for performance analysis of multimedia MPSoC platforms. , 2009, , .		1
244	A Systematic Classification and Detection of Infeasible Paths for Accurate WCET Analysis of Esterel Programs. , 2009, , .		0
245	Schedulability Analysis of MSC-based System Models. , 2008, , .		3
246	A Multi-mode Real-Time Calculus. , 2008, , .		21
247	Programming and Performance Modelling of Automotive ECU Networks. , 2008, , .		3
248	A Hybrid DVS Scheme for Interactive 3D Games. , 2008, , .		27
249	Power Management of Interactive 3D Games Using Frame Structures. , 2008, , .		26
250	Control theory-based DVS for interactive 3D games. , 2008, , .		41
251	Application-specific workload shaping in multimedia-enabled personal mobile devices. Transactions on Embedded Computing Systems, 2008, 7, 1-22.	2.9	3
252	Multimedia power management on a platter. , 2008, , .		1

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253	Watermarking Video Clips with Workload Information for DVS. , 2008, , .		1
254	Intra- and inter-processor hybrid performance modeling for MPSoC architectures. , 2008, , .		4
255	6th workshop on embedded systems for real-time multimedia (ESTIMedia 2008). , 2008, , .		0
256	Performance debugging of Esterel specifications. , 2008, , .		20
257	Cache-aware optimization of BAN applications. , 2008, , .		0
258	Accounting for Cache-Related Preemption Delay in Dynamic Priority Schedulability Analysis. , 2007, , .		25
259	Reducing data-memory footprint of multimedia applications by delay redistribution. Proceedings - Design Automation Conference, 2007, , .	0.0	6
260	Interactive schedulability analysis. Transactions on Embedded Computing Systems, 2007, 7, 1-27.	2.9	1
261	Performance Debugging of Real-Time Systems Using Multicriteria Schedulability Analysis. , 2007, , .		3
262	Performance analysis of FlexRay-based ECU networks. Proceedings - Design Automation Conference, 2007, , .	0.0	46
263	Path-Constrained Relaxed Schedulability Analysis. , 2007, , .		0
264	Composing Functional and State-Based Performance Models for Analyzing Heterogeneous Real-Time Systems. , 2007, , .		19
265	Fast Schedulability Analysis Using Commodity Graphics Hardware. Gifted and Talented International, 2007, , .	0.8	7
266	Cache-Aware Timing Analysis of Streaming Applications. Real-Time Systems (ECRTS), Proceedings of the Euromicro Workshop on, 2007, , .	0.0	2
267	Editorial for the Special Issue on Field Programmable Technology. Journal of Signal Processing Systems, 2007, 47, 1-2.	1.0	0
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