## Samarjit Chakraborty

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	A general framework for analysing system properties in platform-based embedded system designs. , 0, , .		141
2	Performance evaluation of network processor architectures: combining simulation with analytical estimation. Computer Networks, 2003, 41, 641-665.	5.1	84
3	Security Challenges in Automotive Hardware/Software Architecture Design. , 2013, , .		80
4	Design and architectures for dependable embedded systems. , 2011, , .		73
5	Automotive Cyber–Physical Systems: A Tutorial Introduction. IEEE Design and Test, 2016, 33, 92-108.	1.2	66
6	A hybrid approach to cyber-physical systems verification. , 2012, , .		60
7	Security in Automotive Networks. ACM Transactions on Design Automation of Electronic Systems, 2017, 22, 1-27.	2.6	54
8	Task- and network-level schedule co-synthesis of Ethernet-based time-triggered systems. , 2014, , .		50
9	Performance analysis of FlexRay-based ECU networks. Proceedings - Design Automation Conference, 2007, , .	0.0	46
10	Embedded systems and software challenges in electric vehicles. , 2012, , .		45
11	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
12	Modular Active Charge Balancing for Scalable Battery Packs. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2017, 25, 974-987.	3.1	44
13	Relaxing Signal Delay Constraints in Distributed Embedded Controllers. IEEE Transactions on Control Systems Technology, 2014, 22, 2337-2345.	5.2	43
14	Safety Evaluation of Automotive Electronics Using Virtual Prototypes. , 2014, , .		42
15	Neighbor Discovery Latency in BLE-Like Protocols. IEEE Transactions on Mobile Computing, 2018, 17, 617-631.	5.8	42
16	Control theory-based DVS for interactive 3D games. , 2008, , .		41
17	Embedded Software in Network Processors — Models and Algorithms. Lecture Notes in Computer Science, 2001, , 416-434.	1.3	41
18	Games are up for DVFS. , 2006, , .		40

#	Article	IF	CITATIONS
19	Smart Cells for Embedded Battery Management. , 2014, , .		40
20	A framework for evaluating design tradeoffs in packet processing architectures. Proceedings - Design Automation Conference, 2002, , .	0.0	39
21	Challenges in automotive cyber-physical systems design. , 2012, , .		37
22	Modular scheduling of distributed heterogeneous time-triggered automotive systems. , 2012, , .		36
23	Security analysis of automotive architectures using probabilistic model checking. , 2015, , .		35
24	System architecture and software design for electric vehicles. , 2013, , .		34
25	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
26	Distributed reconfigurable Battery System Management Architectures. , 2016, , .		34
27	Time-triggered implementations of mixed-criticality automotive software. , 2012, , .		31
28	Lightweight graphics instrumentation for game state-specific power management in Android. Multimedia Systems, 2014, 20, 563-578.	4.7	31
29	VM-Based Real-Time Services for Automotive Control Applications. , 2010, , .		30
30	DVS for buffer-constrained architectures with predictable QoS-energy tradeoffs. , 2005, , .		29
31	Multi-Objective Co-Optimization of FlexRay-Based Distributed Control Systems. , 2016, , .		29
32	Heat exchanger network synthesis: the possibility of randomization. Chemical Engineering Journal, 1999, 72, 209-216.	12.7	28
33	A Hybrid DVS Scheme for Interactive 3D Games. , 2008, , .		27
34	Multi-layered scheduling of mixed-criticality cyber-physical systems. Journal of Systems Architecture, 2013, 59, 1215-1230.	4.3	27
35	On the Complexity of Scheduling Conditional Real-Time Code. Lecture Notes in Computer Science, 2001, , 38-49.	1.3	27

Power Management of Interactive 3D Games Using Frame Structures. , 2008, , .

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#	Article	IF	CITATIONS
37	Constraint-driven synthesis and tool-support for FlexRay-based automotive control systems. , 2011, , .		26
38	Reliability challenges for electric vehicles. , 2013, , .		26
39	VEGa: A High Performance Vehicular Ethernet Gateway on Hybrid FPGA. IEEE Transactions on Computers, 2017, 66, 1790-1803.	3.4	26
40	Tuning SoC platforms for multimedia processing. , 2004, , .		25
41	Accounting for Cache-Related Preemption Delay in Dynamic Priority Schedulability Analysis. , 2007, , .		25
42	LMS-based low-complexity game workload prediction for DVFS. , 2010, , .		25
43	Resource Augmentation Bounds for Approximate Demand Bound Functions. , 2011, , .		25
44	Lightweight Authentication for Secure Automotive Networks. , 2015, , .		25
45	Memory-Aware Embedded Control Systems Design. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2017, 36, 586-599.	2.7	25
46	Event Count Automata: A State-Based Model for Stream Processing Systems. , 0, , .		23
47	Schedulability analysis of non-preemptive recurring real-time tasks. , 2006, , .		23
48	Context-sensitive timing analysis of Esterel programs. , 2009, , .		23
49	Modular system-level architecture for concurrent cell balancing. , 2013, , .		22
50	On Battery Recovery Effect in Wireless Sensor Nodes. ACM Transactions on Design Automation of Electronic Systems, 2016, 21, 1-28.	2.6	22
51	A New Task Model for Streaming Applications and Its Schedulability Analysis. , 0, , .		21
52	Performance analysis of multiprocessor DSPs: a stream-oriented component model. IEEE Signal Processing Magazine, 2005, 22, 38-46.	5.6	21
53	Interface-Based Rate Analysis of Embedded Systems. , 2006, , .		21
54	A Multi-mode Real-Time Calculus. , 2008, , .		21

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55	Optimizing hierarchical schedules for improved control performance. , 2010, , .		21
56	Co-design of cyber-physical systems via controllers with flexible delay constraints. , 2011, , .		21
57	Computing Largest Common Point Sets under Approximate Congruence. Lecture Notes in Computer Science, 2000, , 52-64.	1.3	21
58	Using offline bitstream analysis for power-aware video decoding in portable devices. , 2005, , .		20
59	Performance debugging of Esterel specifications. , 2008, , .		20
60	Battery- and Aging-Aware Embedded Control Systems for Electric Vehicles. , 2014, , .		20
61	Battery assignment and scheduling for drone delivery businesses. , 2017, , .		20
62	Composing Functional and State-Based Performance Models for Analyzing Heterogeneous Real-Time Systems. , 2007, , .		19
63	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
64	Rate analysis for streaming applications with on-chip buffer constraints. , 0, , .		18
65	Multirate Controller Design for Resource- and Schedule-Constrained Automotive ECUs. , 2013, , .		18
66	Adaptive online power-management for Bluetooth Low Energy. , 2015, , .		18
67	Time Series Characterization of Gaming Workload for Runtime Power Management. IEEE Transactions on Computers, 2015, 64, 260-273.	3.4	18
68	Testing automotive embedded systems under X-in-the-loop setups. , 2016, , .		18
69	Timing Analysis of Mixed Time/Event-Triggered Multi-Mode Systems. , 2009, , .		17
70	Cyber-Physical Systems Design for Electric Vehicles. , 2012, , .		17
71	Griassdi. , 2017, , .		17
72	Semantics-Preserving Cosynthesis of Cyber-Physical Systems. Proceedings of the IEEE, 2018, 106, 171-200.	21.3	17

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73	Schedulability Analysis for Processors with Aging-Aware Autonomic Frequency Scaling. , 2012, , .		16
74	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
75	SOH-aware active cell balancing strategy for high power battery packs. , 2018, , .		16
76	Energy Modeling for the Bluetooth Low Energy Protocol. Transactions on Embedded Computing Systems, 2020, 19, 1-32.	2.9	16
77	How reliable is smartphone-based electronic contact tracing for COVID-19?. Communications of the ACM, 2022, 65, 56-67.	4.5	16
78	Partitioned Packing and Scheduling for Sporadic Real-Time Tasks in Identical Multiprocessor Systems. , 2012, , .		15
79	Schedule Integration Framework for Time-Triggered Automotive Architectures. , 2014, , .		15
80	Many-to-many active cell balancing strategy design. , 2015, , .		15
81	Web browser workload characterization for power management on HMP platforms. , 2016, , .		15
82	OS-Aware Automotive Controller Design Using Non-Uniform Sampling. ACM Transactions on Cyber-Physical Systems, 2018, 2, 1-22.	2.5	15
83	On optimal neighbor discovery. , 2019, , .		15
84	Security-Driven Codesign with Weakly-Hard Constraints for Real-Time Embedded Systems. , 2019, , .		15
85	Designing heterogeneous ECU networks via compact architecture encoding and hybrid timing analysis. , 2009, , .		14
86	Optimized Schedule Synthesis under Real-Time Constraints for the Dynamic Segment of FlexRay. , 2010, ,		14
87	Automatic generation of topological indoor maps for real-time map-based localization and tracking. , 2011, , .		14
88	Model-based design of resource-efficient automotive control software. , 2016, , .		14
89	Unsupervised and Supervised Learning with the Random Forest Algorithm for Traffic Scenario Clustering and Classification. , 2019, , .		14
90	Power management using game state detection on android smartphones. , 2013, , .		13

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91	Open source model and simulator for real-time performance analysis of automotive network security. ACM SIGBED Review, 2016, 13, 8-13.	1.8	13
92	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
93	Approximation Algorithms for 3-D Common Substructure Identification in Drug and Protein Molecules. Lecture Notes in Computer Science, 1999, , 253-264.	1.3	13
94	Evaluating schedulers for multimedia processing on buffer-constrained SoC platforms. IEEE Design and Test of Computers, 2004, 21, 368-377.	1.0	12
95	Comparing Bluetooth HDP and SPP for Mobile Health Devices. , 2010, , .		12
96	Cross-layer analysis, testing and verification of automotive control software. , 2011, , .		12
97	ExPerio — Exploiting periodicity for opportunistic energy-efficient data transmission. , 2015, , .		12
98	Frame-based and thread-based power management for mobile games on HMP platforms. , 2016, , .		12
99	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
100	Approximate VCCs. , 2005, , .		11
101	Evaluating design trade-offs in customizable processors. , 2009, , .		11
102	High-level timing analysis of concurrent applications on MPSoC platforms using memory-aware trace-driven simulations. , 2010, , .		11
103	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
104	Performance debugging of Esterel specifications. Real-Time Systems, 2012, 48, 570-600.	1.3	11
105	Design space exploration of drone infrastructure for large-scale delivery services. , 2016, , .		11
106	Timing analysis of esterel programs on general-purpose multiprocessors. , 2010, , .		11
107	Introduction to the Special Issue on Transportation Cyber-Physical Systems. ACM Transactions on Cyber-Physical Systems, 2020, 4, 1-3.	2.5	11
108	Cache-aware timing analysis of streamingÂapplications. Real-Time Systems, 2009, 41, 52-85.	1.3	10

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109	Video Quality Driven Buffer Sizing via Frame Drops. , 2011, , .		10
110	Managing power for closed-source android os games by lightweight graphics instrumentation. , 2012, ,		10
111	Reliable CPS Design for Mitigating Semiconductor and Battery Aging in Electric Vehicles. , 2015, , .		10
112	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
113	Multiprocessor Extensions to Real-Time Calculus. , 2009, , .		9
114	Schedulability analysis of distributed cyber-physical applications on mixed time-/event-triggered bus architectures with retransmissions. , 2011, , .		9
115	Concurrent architecture and schedule optimization of time-triggered automotive systems. , 2012, , .		9
116	Adaptive switching controllers for systems with hybrid communication protocols. , 2012, , .		9
117	Design Methods for Augmented Reality In-Vehicle Infotainment Systems. , 2014, , .		9
118	Forget the battery, let's play games!. , 2014, , .		9
119	Schedule Management Framework for Cloud-Based Future Automotive Software Systems. , 2016, , .		9
120	FlexRay switch scheduling — A networking concept for electric vehicles. , 2011, , .		8
121	Designing VM schedulers for embedded real-time applications. , 2011, , .		8
122	Schedule integration for time-triggered systems. , 2013, , .		8
123	AR-IVI — Implementation of In-Vehicle Augmented Reality. , 2014, , .		8
124	Quantifying Notions of Extensibility in FlexRay Schedule Synthesis. ACM Transactions on Design Automation of Electronic Systems, 2014, 19, 1-37.	2.6	8
125	The Medical Cyber-physical Systems Activity at EIT: A Look under the Hood. , 2014, , .		8

126 Smart 2: Smart Charging for Smart Phones. , 2015, , .

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127	GigE Vision Data Acquisition for Visual Servoing using SG/DMA Proxying. , 2016, , .		8
128	Automated synthesis of cyber-physical systems from joint controller/architecture specifications. , 2016, , .		8
129	TIC: a scalable model checking based approach to WCET estimation. , 2016, , .		8
130	Optimal Dimensioning and Control of Active Cell Balancing Architectures. IEEE Transactions on Vehicular Technology, 2019, 68, 9632-9646.	6.3	8
131	Tighter Dimensioning of Heterogeneous Multi-Resource Autonomous CPS with Control Performance Guarantees. , 2019, , .		8
132	Processor Frequency Selection for SoC Platforms for Multimedia Applications. , 0, , .		7
133	Fast Schedulability Analysis Using Commodity Graphics Hardware. Gifted and Talented International, 2007, , .	0.8	7
134	Lightweight Modeling of Complex State Dependencies in Stream Processing Systems. , 2009, , .		7
135	Multiprocessor extensions to real-time calculus. Real-Time Systems, 2011, 47, 562-617.	1.3	7
136	On the quantification of sustainability and extensibility of FlexRay schedules. , 2011, , .		7
137	Robust image processing for an omnidirectional camera-based smart car door. Transactions on Embedded Computing Systems, 2012, 11, 1-28.	2.9	7
138	Formal verification of distributed controllers using Time-Stamped Event Count Automata. , 2013, , .		7
139	How to engineer tool-chains for automotive E/E architectures?. ACM SIGBED Review, 2013, 10, 6-15.	1.8	7
140	Fault-tolerant embedded control systems for unreliable hardware. , 2014, , .		7
141	TTW: A Time-Triggered Wireless design for CPS. , 2018, , .		7
142	Multi-Pattern Active Cell Balancing Architecture and Equalization Strategy for Battery Packs. , 2018, , .		7
143	In-Vehicle Object-Level 3D Reconstruction of Traffic Scenes. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 7747-7759.	8.0	7
144	Control/Architecture Codesign for Cyber-Physical Systems. , 2017, , 1221-1260.		7

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145	Optimizing BLE-Like Neighbor Discovery. IEEE Transactions on Mobile Computing, 2022, 21, 1779-1797.	5.8	7
146	CPS-oriented Modeling and Control of Traffic Signals Using Adaptive Back Pressure. , 2020, , .		7
147	Reducing data-memory footprint of multimedia applications by delay redistribution. Proceedings - Design Automation Conference, 2007, , .	0.0	6
148	GPU-based Acceleration of System-level Design Tasks. International Journal of Parallel Programming, 2010, 38, 225-253.	1.5	6
149	Constant-time admission control for Deadline Monotonic tasks. , 2010, , .		6
150	Constant-Time Admission Control for Partitioned EDF. , 2010, , .		6
151	On buffering with stochastic guarantees in resource-constrained media players. , 2011, , .		6
152	Timing analysis of cyber-physical applications for hybrid communication protocols. , 2012, , .		6
153	Resource augmentation for uniprocessor and multiprocessor partitioned scheduling of sporadic real-time tasks. Real-Time Systems, 2013, 49, 475-516.	1.3	6
154	Model-based development and verification of control software for electric vehicles. , 2013, , .		6
155	Policy-based message scheduling using FlexRay. , 2014, , .		6
156	Fault-tolerant control synthesis and verification of distributed embedded systems. , 2014, , .		6
157	Hybrid Apps: Apps for the Internet of Things. , 2015, , .		6
158	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
159	Dynamic Alternation of Huffman Codebooks for Sensor Data Compression. IEEE Embedded Systems Letters, 2017, 9, 81-84.	1.9	6
160	Effectively utilizing elastic resources in networked control systems. , 2017, , .		6
161	Control Performance Optimization for Application Integration on Automotive Architectures. IEEE Transactions on Computers, 2021, 70, 1059-1073.	3.4	6
162	Timing Debugging for Cyber-Physical Systems. , 2021, , .		6

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163	Analytic curve detection from a noisy binary edge map using genetic algorithm. Lecture Notes in Computer Science, 1998, , 129-138.	1.3	5
164	Robust image processing for an omnidirectional camera-based smart car door. , 2009, , .		5
165	Accelerating System-Level Design Tasks Using Commodity Graphics Hardware: A Case Study. , 2009, , .		5
166	Timing and schedulability analysis for distributed automotive control applications. , 2011, , .		5
167	Reliability-Aware Instruction Set Customization for ASIPs with Hardened Logic. , 2012, , .		5
168	Priority Assignment for Event-triggered Systems Using Mathematical Programming. , 2013, , .		5
169	Stochastic modeling and performance analysis of multimedia SoCs. , 2013, , .		5
170	Timing challenges in automotive software architectures. , 2014, , .		5
171	Inductor Optimization for Active Cell Balancing using Geometric Programming. , 2015, , .		5
172	Estimating the Limits of CPU Power Management for Mobile Games. , 2017, , .		5
173	Cost-Effective Energy Monitoring of a Zynq-Based Real-Time System Including Dual Gigabit Ethernet. , 2019, , .		5
174	In Situ Latency Monitoring for Heterogeneous Real-Time Systems. , 2019, , .		5
175	Intelligent Chargers Will Make Mobile Devices Live Longer. IEEE Design and Test, 2020, 37, 42-49.	1.2	5
176	UBAR. Transactions on Embedded Computing Systems, 2021, 20, 1-25.	2.9	5
177	Design Space Exploration of Network Processor Architectures. , 2003, , 55-89.		5
178	Generating an action notation environment from Montages descriptions. International Journal on Software Tools for Technology Transfer, 2001, 3, 431-455.	1.9	4
179	Schedulability of event-driven code blocks in real-time embedded systems. Proceedings - Design Automation Conference, 2002, , .	0.0	4

180 Power-aware bandwidth and stereo-image scalable audio decoding. , 2005, , .

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181	Workload characterization and cost-quality tradeoffs in MPEG-4 decoding on resource-constrained devices. , 2005, , .		4
182	A perception-aware low-power software audio decoder for portable devices. , 2005, , .		4
183	Application-specific workload shaping in multimedia-enabled personal mobile devices. , 2006, , .		4
184	Intra- and inter-processor hybrid performance modeling for MPSoC architectures. , 2008, , .		4
185	Design space exploration of instruction set customizable MPSoCs for multimedia applications. , 2010, ,		4
186	Implicit intermittent fault detection in distributed systems. , 2014, , .		4
187	Dynamic service switching for the medical IoT. , 2016, , .		4
188	Extensibility-Driven Automotive In-Vehicle Architecture Design. , 2017, , .		4
189	Design and validation of fault-tolerant embedded controllers. , 2018, , .		4
190	User-centric Resource Management for Embedded Multi-core Processors. , 2020, , .		4
191	Supporting a low delay best-effort class in the presence of real-time traffic. , 0, , .		3
192	Interactive Schedulability Analysis. , 0, , .		3
193	Performance Debugging of Real-Time Systems Using Multicriteria Schedulability Analysis. , 2007, , .		3
194	Schedulability Analysis of MSC-based System Models. , 2008, , .		3
195	Programming and Performance Modelling of Automotive ECU Networks. , 2008, , .		3
196	Application-specific workload shaping in multimedia-enabled personal mobile devices. Transactions on Embedded Computing Systems, 2008, 7, 1-22.	2.9	3
197	Modeling buffers with data refresh semantics in automotive architectures. , 2010, , .		3

198 Program-aware circuit level timing analysis. , 2011, , .

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199	Anti-trap protection for an intelligent smart car door system. , 2012, , .		3
200	Compositional Analysis of Switched Ethernet Topologies. , 2013, , .		3
201	Aging mitigation of power supply-connected batteries. , 2014, , .		3
202	Optimal dimensioning of active cell balancing architectures. , 2014, , .		3
203	Reconfigurable Communication Middleware for Flex Ray-Based Distributed Embedded Systems. , 2015, , .		3
204	Sound4All: Towards affordable large-scale hearing screening. , 2017, , .		3
205	Dynamic Platforms for Uncertainty Management in Future Automotive E/E Architectures. , 2017, , .		3
206	Design optimization of photovoltaic arrays on curved surfaces. , 2018, , .		3
207	Exploiting System Dynamics for Resource-Efficient Automotive CPS Design. , 2019, , .		3
208	Efficient lossless compression for depth information in traffic scenarios. Multimedia Systems, 2019, 25, 293-306.	4.7	3
209	Cross-Layer Interactions in CPS for Performance and Certification. , 2019, , .		3
210	A Programmable Open Architecture Testbed for CPS Education. IEEE Design and Test, 2020, 37, 31-38.	1.2	3
211	Predictable Vision for Autonomous Systems. , 2020, , .		3
212	Debugging FPGA-accelerated Real-time Systems. , 2020, , .		3
213	Performance Analysis of FlexRay-based ECU Networks. Proceedings - Design Automation Conference, 2007, , .	0.0	3
214	Reducing Data-Memory Footprint of Multimedia Applications by Delay Redistribution. Proceedings - Design Automation Conference, 2007, , .	0.0	3
215	GoodSpread: Criticality-Aware Static Scheduling of CPS with Multi-QoS Resources. , 2020, , .		3

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217	Cache-Aware Timing Analysis of Streaming Applications. Real-Time Systems (ECRTS), Proceedings of the Euromicro Workshop on, 2007, , .	0.0	2
218	Shadow-based vehicle model refinement and tracking in advanced automotive driver assistance systems. , 2011, , .		2
219	Near-Optimal Constant-Time Admission Control for DM Tasks via Non-uniform Approximations. , 2011, , .		2
220	Motion stereo-based collision avoidance for an intelligent smart car door system. , 2012, , .		2
221	Characterizing feedback signal drop patterns in formal verification of networked control systems. , 2013, , .		2
222	Let's put the car in your phone!. , 2013, , .		2
223	Dimensioning and configuration of EES systems for electric vehicles with boundary-conditioned adaptive scalarization. , 2013, , .		2
224	Optimal dimensioning of active cell balancing architectures. , 2014, , .		2
225	Decentralized diagnosis of permanent faults in automotive E/E architectures. , 2015, , .		2
226	Timing Analysis of Safety-Critical Automotive Software: The AUTOSAFE Tool Flow. , 2015, , .		2
227	EGON: Portable in-situ energy measurement for low-power sensor devices. , 2016, , .		2
228	Specification, Verification and Design of Evolving Automotive Software. , 2017, , .		2
229	Design automation for battery systems. , 2018, , .		2
230	Hardware-accelerated data acquisition and authentication for high-speed video streams on future heterogeneous automotive processing platforms. , 2018, , .		2
231	Cache-aware task scheduling for maximizing control performance. , 2018, , .		2
232	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
233	Perception Computing-Aware Controller Synthesis for Autonomous Systems. , 2021, , .		2
234	Approaches for Software Verification of An Emergency Recovery System for Micro Air Vehicles. Lecture Notes in Computer Science, 2015, , 369-385.	1.3	2

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235	Interface-Based Design of Real-Time Systems. , 2012, , 83-101.		2
236	Exploration of Distributed Automotive Systems Using Compositional Timing Analysis. Embedded Systems, 2014, , 189-204.	0.6	2
237	Model-Based Object Recognition from a Complex Binary Imagery Using Genetic Algorithm. Lecture Notes in Computer Science, 1999, , 150-161.	1.3	2
238	Towards Building Better Mobile Web Browsers for Ad Blocking. , 2020, , .		2
239	Design- Time Optimization of Reconfigurable PV Architectures for Irregular Surfaces. , 2020, , .		2
240	Interactive schedulability analysis. Transactions on Embedded Computing Systems, 2007, 7, 1-27.	2.9	1
241	Multimedia power management on a platter. , 2008, , .		1
242	Watermarking Video Clips with Workload Information for DVS. , 2008, , .		1
243	Cache-aware optimization of BAN applications. Design Automation for Embedded Systems, 2009, 13, 159-178.	1.0	1
244	A DECOMSYS based tool-chain for analyzing FlexRay based automotive control applications. , 2009, , .		1
245	Model-based analysis, synthesis and testing of automotive hardware/software architectures. , 2010, , .		1
246	Driver Body-Height Prediction for an Ergonomically Optimized Ingress Using a Single Omnidirectional Camera. , 2010, , .		1
247	Exploiting GPU On-chip Shared Memory for Accelerating Schedulability Analysis. , 2010, , .		1
248	Video quality-driven buffer dimensioning in MPSoC platforms via prioritized frame drops. , 2011, , .		1
249	Adaptive switching controllers for tracking with hybrid communication protocols. , 2012, , .		1
250	Customizing Instruction Set Extensible Reconfigurable Processors Using GPUs. , 2012, , .		1
251	Automata-theoretic modeling of fixed-priority non-preemptive scheduling for formal timing verification. , 2014, , .		1
252	Technologies for Safe and Intelligent Transportation Systems. , 2016, , .		1

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253	Understanding slotless neighbor discovery. , 2017, , .		1
254	Hybrid Automotive In-Vehicle Networks. , 2017, , .		1
255	Waterfall is too slow, let's go Agile. , 2018, , .		1
256	API for power-aware application design on mobile systems. , 2018, , .		1
257	Optimizing Worst-Case Execution Times Using Mainstream Compilers. , 2018, , .		1
258	WCET Analysis meets Virtual Prototyping. , 2019, , .		1
259	BrezeFlow: Unified Debugger for Android CPU Power Governors and Schedulers on Edge Devices. , 2020, , .		1
260	Timing-Predictable Vision Processing for Autonomous Systems. , 2021, , .		1
261	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
262	Fast model-based test case classification for performance analysis of multimedia MPSoC platforms. , 2009, , .		1
263	An Interface Algebra for Estimating Worst-Case Traversal Times in Component Networks. Lecture Notes in Computer Science, 2010, , 198-213.	1.3	1
264	Flexible modelling and performance debugging of real-time embedded multimedia systems. , 2006, , .		0
265	Path-Constrained Relaxed Schedulability Analysis. , 2007, , .		0
266	Editorial for the Special Issue on Field Programmable Technology. Journal of Signal Processing Systems, 2007, 47, 1-2.	1.0	0
267	6th workshop on embedded systems for real-time multimedia (ESTIMedia 2008). , 2008, , .		0
268	Media processing challenges in today's (and tomorrow's) consumer SoCs. , 2009, , .		0
269	Power Management for Mobile Multimedia: From Audio to Video & Games. , 2009, , .		0
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