List of Publications by Year in descending order

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Ηιρολκί Τλκλόλ

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Proposal and Quantitative Analysis of the CHStone Benchmark Program Suite for Practical C-based High-level Synthesis. Journal of Information Processing, 2009, 17, 242-254. | 0.4 | 223 |
| 2 | CHStone: A benchmark program suite for practical C-based high-level synthesis. , 2008, , . | | 95 |
| 3 | Implementation and Evaluation of Local Dynamic Map in Safety Driving Systems. Journal of Transportation Technologies, 2015, 05, 102-112. | 0.5 | 56 |
| 4 | Security/Timing-Aware Design Space Exploration of CAN FD for Automotive Cyber-Physical Systems. IEEE Transactions on Industrial Informatics, 2019, 15, 1094-1104. | 11.3 | 35 |
| 5 | WCRT Analysis of CAN Messages in Gateway-Integrated In-Vehicle Networks. IEEE Transactions on Vehicular Technology, 2017, 66, 9623-9637. | 6.3 | 32 |
| 6 | Energy-aware task migration for multiprocessor real-time systems. Future Generation Computer Systems, 2016, 56, 220-228. | 7.5 | 31 |
| 7 | A New Specification of Software Components for Embedded Systems. , 2007, , . | | 26 |
| 8 | Practical Energy-Aware Scheduling for Real-Time Multiprocessor Systems. , 2009, , . | | 24 |
| 9 | Partitioning and allocation of scratch-pad memory for priority-based preemptive multi-task systems. , 2010, , . | | 24 |
| 10 | Energy-Efficient Intra-task DVFS Scheduling Using Linear Programming Formulation. IEEE Access, 2019, , 1-1. | 4.2 | 22 |
| 11 | A Novel Mechanism for Effective Hardware Task Preemption in Dynamically Reconfigurable Systems. , 2010, , . | | 18 |
| 12 | Comparison of Preemption Schemes for Partially Reconfigurable FPGAs. IEEE Embedded Systems Letters, 2012, 4, 45-48. | 1.9 | 17 |
| 13 | Wheeled Inverted Pendulum with Embedded Component System: A Case Study. , 2010, , . | | 15 |
| 14 | Optimizing Extensibility of CAN FD for Automotive Cyber-Physical Systems. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 7875-7886. | 8.0 | 15 |
| 15 | Exact WCRT Analysis for Message-Processing Tasks on Gateway-Integrated In-Vehicle CAN Clusters. Transactions on Embedded Computing Systems, 2018, 17, 1-29. | 2.9 | 14 |
| 16 | DynamicMapÂ2.0: A Traffic Data Management Platform Leveraging Clouds, Edges and Embedded Systems. International Journal of Intelligent Transportation Systems Research, 2020, 18, 77-89. | 1.1 | 14 |
| 17 | RTOS and Codesign Toolkit for Multiprocessor Systems-on-Chip. , 2007, , . | | 13 |
| 18 | WCRT Analysis and Evaluation for Sporadic Message-Processing Tasks in Multicore Automotive Gateways. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2019, 38, 281-294. | 2.7 | 13 |

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|----|--|------|-----------|
| 19 | Balancing Bandwidth Utilization and Interrupts: Two Heuristic Algorithms for the Optimized Design of Automotive CPS. IEEE Transactions on Industrial Informatics, 2020, 16, 2382-2392. | 11.3 | 12 |
| 20 | Advanced SystemBuilder: A tool set for multiprocessor design space exploration. , 2010, , . | | 10 |
| 21 | NEXCESS. ACM SIGBED Review, 2005, 2, 20-24. | 1.8 | 9 |
| 22 | Checkpoint Extraction Using Execution Traces for Intra-task DVFS in Embedded Systems. , 2011, , . | | 9 |
| 23 | Worst Case Response Time Analysis for Messages in Controller Area Network with Gateway. IEICE Transactions on Information and Systems, 2013, E96.D, 1467-1477. | 0.7 | 9 |
| 24 | Collision Risk Assessment Service for Connected Vehicles: Leveraging Vehicular State and Motion Uncertainties. IEEE Internet of Things Journal, 2021, 8, 11548-11560. | 8.7 | 9 |
| 25 | Static Task Scheduling Algorithms Based on Greedy Heuristics for Battery-Powered DVS Systems. IEICE Transactions on Information and Systems, 2010, E93-D, 2737-2746. | 0.7 | 8 |
| 26 | Optimization of Component Connections for an Embedded Component System. , 2009, , . | | 7 |
| 27 | Towards practical high-level synthesis from large behavioral descriptions. , 2010, , . | | 7 |
| 28 | An Open-Source Flexible Scheduling Simulator for Real-Time Applications. , 2012, , . | | 7 |
| 29 | A Generalized Framework for Energy Savings in Hard Real-Time Embedded Systems. IPSJ Transactions on System LSI Design Methodology, 2009, 2, 167-179. | 0.8 | 6 |
| 30 | Partitioning and Allocation of Scratch-Pad Memory in Priority-Based Multi-Task Systems. IPSJ Transactions on System LSI Design Methodology, 2009, 2, 180-188. | 0.8 | 6 |
| 31 | Execution-variance-aware task allocation for energy minimization on the big.LITTLE architecture. Sustainable Computing: Informatics and Systems, 2019, 22, 155-166. | 2.2 | 6 |
| 32 | Partitioning of Behavioral Descriptions with Exploiting Function-Level Parallelism. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2010, E93-A, 488-499. | 0.3 | 6 |
| 33 | Generic Memory Protection Mechanism for Embedded System and Its Application to Embedded Component Systems. , 2008, , . | | 5 |
| 34 | A Generalized Framework for System-Wide Energy Savings in Hard Real-Time Embedded Systems. , 2008, , | | 5 |
| 35 | Effective Scheduling Algorithms for I/O Blocking with a Multi-Frame Task Model. IEICE Transactions on Information and Systems, 2009, E92-D, 1412-1420. | 0.7 | 5 |
| 36 | Fast design space exploration for mixed hardware-software embedded systems. , 2011, , . | | 5 |

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| 37 | AEDSMS: Automotive Embedded Data Stream Management System. , 2015, , . | | 5 |
| 38 | A Comparative Analysis of RTOS and Linux Scalability on an Embedded Many-core Processor. Journal of Information Processing, 2018, 26, 225-236. | 0.4 | 5 |
| 39 | Efficient Approach to Ensure Temporal Determinism in Automotive Control Systems. , 2018, , . | | 5 |
| 40 | Energy-Aware Task Allocation for Heterogeneous Multiprocessor Systems by Using Integer Linear Programming. Journal of Information Processing, 2019, 27, 136-148. | 0.4 | 5 |
| 41 | A Fast Network-on-Chip Simulator with QEMU and SystemC. , 2012, , . | | 4 |
| 42 | Extensibility-Aware Message Scheduling Algorithm for the Static Segment of the FlexRay. , 2012, , . | | 4 |
| 43 | A Multi-purpose Group Signature for Vehicular Network Security. , 2014, , . | | 4 |
| 44 | Gateway Modeling and Response Time Analysis on CAN Clusters of Automobiles. , 2015, , . | | 4 |
| 45 | Real-time operating systems for multicore embedded systems. , 2008, , . | | 3 |
| 46 | Improved Policies for Drowsy Caches in Embedded Processors. , 2008, , . | | 3 |
| 47 | A case study on MPEG4 decoder design with SystemBuilder. , 2009, , . | | 3 |
| 48 | Allocation of scratch-pad memory in priority-based multi-task systems. , 2009, , . | | 3 |
| 49 | Rainbow: An OS Extension for Hardware Multitasking on Dynamically Partially Reconfigurable FPGAs. , 2011, , . | | 3 |
| 50 | Android Platform Based on Vehicle Embedded Data Stream Processing. , 2013, , . | | 3 |
| 51 | Implementation and Evaluation of Load Balancing Mechanism With Multiple Edge Server Cooperation for Dynamic Map System. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 7270-7280. | 8.0 | 3 |
| 52 | Partitioning and Allocation of Scratch-Pad Memory for Energy Minimization of Priority-Based Preemptive Multi-Task Systems. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2011, E94-A, 1954-1964. | 0.3 | 3 |
| 53 | Remedial Education of Embedded Software Specialists for Working People. IEEJ Transactions on Fundamentals and Materials, 2006, 126, 563-569. | 0.2 | 3 |
| 54 | An Integrated Framework for Energy Optimization of Embedded Real-Time Applications. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2014, E97.A, 2477-2487. | 0.3 | 3 |

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| 55 | Practice and analysis of an extension course for training trainers of embedded software. ACM SIGBED Review, 2007, 4, 73-81. | 1.8 | 2 |
| 56 | Energy efficiency of scratch-pad memory in deep submicron domains: an empirical study. IEICE Electronics Express, 2008, 5, 1010-1016. | 0.8 | 2 |
| 57 | Hierarchical scheduling for integrating real-time applications with interrupt routines. , 2009, , . | | 2 |
| 58 | Heuristics for Static Voltage Scheduling Algorithms on Battery-Powered DVS Systems. , 2009, , . | | 2 |
| 59 | Efficient Design Space Exploration at System Level with Automatic Profiler Instrumentation. IPSJ Transactions on System LSI Design Methodology, 2010, 3, 179-193. | 0.8 | 2 |
| 60 | Aggressive Register Unsharing Based on SSA Transformation for Clock Enhancement in High-Level Synthesis. , 2010, , . | | 2 |
| 61 | Integrated Scheduling for a Reliable Dual-OS Monitor. IPSJ Online Transactions, 2012, 5, 47-58. | 0.1 | 2 |
| 62 | A Fast Performance Estimation Framework for System-Level Design Space Exploration. IPSJ Transactions on System LSI Design Methodology, 2012, 5, 44-54. | 0.8 | 2 |
| 63 | Task Migration for Energy Saving in Real-Time Multiprocessor Systems. , 2014, , . | | 2 |
| 64 | Automatic synthesis of inter-heterogeneous-processor communication implementation for programmable system-on-chip. , 2015, , . | | 2 |
| 65 | Energy-Aware Task Allocation for Large Task Sets on Heterogeneous Multiprocessor Systems. , 2018, , . | | 2 |
| 66 | Efficient Access Method for Multi-access Edge Servers in Dynamic Map Systems. International Journal of Intelligent Transportation Systems Research, 2022, 20, 252-265. | 1.1 | 2 |
| 67 | iSotEE: A Hypervisor Middleware for IoT-Enabled Resource-Constrained Reliable Systems. IEEE Access, 2022, 10, 8566-8576. | 4.2 | 2 |
| 68 | A Visual Modeling Environment for Embedded Component Systems. , 2007, , . | | 1 |
| 69 | SSEST: Summer school on embedded system technologies. , 2007, , . | | 1 |
| 70 | Dynamic Power Management for Embedded System Idle State in the Presence of Periodic Interrupt Services. IPSJ Transactions on System LSI Design Methodology, 2008, 1, 48-57. | 0.8 | 1 |
| 71 | Modeling power consumption of applications in wireless communication devices using OS level profiles. , 2009, , . | | 1 |
| 72 | Automatic instrumentation of profilers for FPGA-based design space exploration. , 2009, , . | | 1 |

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|----|---|-----|-----------|
| 73 | Automatic communication synthesis with hardware sharing for design space exploration. , 2010, , . | | 1 |
| 74 | Hardware multitasking in dynamically partially reconfigurable FPGA-based embedded systems. , 2011, , . | | 1 |
| 75 | Efficient Algorithms for Extracting Pareto-optimal Hardware Configurations in DEPS Framework. IPSJ Transactions on System LSI Design Methodology, 2012, 5, 133-142. | 0.8 | 1 |
| 76 | An Integrated Framework for Topology Design of CAN Networks under Real-Time Constraints. , 2015, , . | | 1 |
| 77 | Further Analysis with Linear Programming on Blocking Time Bounds for Partitioned Fixed Priority Multiprocessor Scheduling. Journal of Information Processing, 2018, 26, 540-548. | 0.4 | 1 |
| 78 | Energy Efficiency of Scratch-Pad Memory at 65 nm and Below: An Empirical Study. , 2008, , . | | 0 |
| 79 | A generalized framework for energy savings in real-time multiprocessor systems. , 2008, , . | | 0 |
| 80 | Behavioral partitioning with exploiting function-level parallelism. , 2008, , . | | 0 |
| 81 | Embedded System Covalidation with RTOS Model and FPGA. IPSJ Transactions on System LSI Design Methodology, 2008, 1, 126-130. | 0.8 | Ο |
| 82 | Analyzing and optimizing energy efficiency of algorithms on DVS systems A first step towards algorithmic energy minimization. , 2009, , . | | 0 |
| 83 | A Novel Framework for Effective Preemptive Hardware Multitasking on FPGAs. IEICE Transactions on Information and Systems, 2012, E95-D, 345-353. | 0.7 | 0 |
| 84 | Schedulability Analysis for Messages in Gateway-Interconnected Controller Area Network. , 2012, , . | | 0 |
| 85 | HAZOP-based security analysis for embedded systems: Case study of open. , 2015, , . | | Ο |
| 86 | Further analysis on blocking time bounds for partitioned fixed priority multiprocessor scheduling. , 2016, , . | | 0 |
| 87 | Automatic Communication Synthesis with Hardware Sharing for Multi-Processor SoC Design. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2010, E93-A, 2509-2516 | 0.3 | 0 |

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