Embedded Systems Engineering - Publications - DTU Orbit (14/05/2018)

Alshareef, Abdurrahman; Sarjoughian, Hessam S.; Zarrin, Bahram / Activity-based DEVS modeling.
Publication: Research - peer-review › Journal article – Annual report year: 2018

Schoeberl, Martin; Pezzarossa, Luca; Sparse, Jens / A multicore processor for time-critical applications.
Publication: Research - peer-review › Journal article – Annual report year: 2018

Zarrin, Bahram; Baumeister, Hubert / An Integrated Framework to Specify Domain-Specific Modeling Languages.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2018

De Donno, Michele; Dragoni, Nicola; Giaretta, Alberto; Mazzara, Manuel / AntBioTic: Protecting IoT Devices Against DDoS Attacks.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2018

De Donno, Michele; Dragoni, Nicola; Giaretta, Alberto; Spognardi, Angelo / DDoS-Capable IoT Malwares: Comparative Analysis and Mural Investigation.
Publication: Research - peer-review › Journal article – Annual report year: 2018

Bardram, Jakob Eyvind; Frost, Mads / Double-Loop Health Technology: Enabling Socio-technical Design of Personal Health Technology in Clinical Practice.
Publication: Research - peer-review › Book chapter – Annual report year: 2018

Marso, Karol ; Nannarelli, Alberto (Supervisor) / Face Recognition using Approximate Arithmetic.
Publication: Research › Report – Annual report year: 2018

Schoeberl, Martin / Lipsi: Probably the Smallest Processor in the World.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2018

Patou, François; Dimaki, Maria; Maier, Anja; Svendsen, Winnie Edith; Madsen, Jan / Model-Based Systems Engineering for Life-Sciences Instrumentation Development.
Publication: Research - peer-review › Journal article – Annual report year: 2018

Alatraktchi, Fatima AlZahra’a; Noori, Jafar Safaa; Tanev, Georgi Plamenov; Mortensen, John; Dimaki, Maria; Johansen, Helle Krog; Madsen, Jan; Molin, Søren; Svendsen, Winnie Edith / Paper-based sensors for rapid detection of virulence factor produced by Pseudomonas aeruginosa.
Publication: Research - peer-review › Journal article – Annual report year: 2018

Schoeberl, Martin; Puffitsch, Wolfgang; Hepp, Stefan; Huber, Benedikt; Prokesch, Daniel / Patmos: a time-predictable microprocessor.
Publication: Research - peer-review › Journal article – Annual report year: 2018
Pezzarossa, Luca / Reconfiguration of Computation and Communication Resources in Multi-Core Real-Time Embedded Systems.
Publication: Research › Ph.D. thesis – Annual report year: 2018

Sparsø, Jens / Selected papers from the 2nd IEEE Nordic Circuits and Systems Conference (NorCAS), 2016.
Publication: Research - peer-review › Editorial – Annual report year: 2018

Zarrin, Bahram; Baumeister, Hubert; Sarjoughian, Hessam S. / Towards Domain-specific Flow-based Languages.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2018

Bardram, Jakob Eyvind; Rohani, Darius A.; Tuxen, Nanna; Faurholt-Jepsen, Maria; Kessing, Lars V. / Supporting smartphone-based behavioral activation: A simulation study.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Cilku, Bekim; Puffitsch, Wolfgang; Prokesch, Daniel; Schoeberl, Martin; Puschner, Peter / Improving performance of single-path code through a time-predictable memory hierarchy.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Schneider, Alexander; Pop, Paul; Madsen, Jan / Pin-count reduction for continuous flow microfluidic biochips.
Publication: Research - peer-review › Journal article – Annual report year: 2017

Abdullah, Saeed; Murnane, Elizabeth L.; Musolesi, Mirco; Bardram, Jakob Eyvind; Choudhury, Tanzeem / 2nd International Workshop on Mental Health and Well-being: Sensing and Intervention: sensing and intervention.
Publication: Research › Article in proceedings – Annual report year: 2018

Pezzarossa, Luca; Schoeberl, Martin; Sparsø, Jens / A Controller for Dynamic Partial Reconfiguration in FPGA-Based Real-Time Systems.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Bardram, Jakob Eyvind; Esbensen, Morten; Tabard, Aurélien / Activity-Based Collaboration for Interactive Spaces.
Publication: Research - peer-review › Book chapter – Annual report year: 2017

Maggi, Alessandro; Petrocchi, Marinella; Spognardi, Angelo; Tiezzi, Francesco / A language-based approach to modelling and analysis of Twitter interactions.
Publication: Research - peer-review › Journal article – Annual report year: 2017

Nannarelli, Alberto / A Multi-Format Floating-Point Multiplier for Power-Efficient Operations.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017
Jensen, Nicklas Bo; Karlsson, Sven / Improving Loop Dependence Analysis.
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Baig, Hasan; Madsen, Jan / Logic analysis and verification of n-input genetic logic circuits.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Baig, Hasan; Madsen, Jan (Main supervisor); Pop, Paul (Supervisor) / Methods and Tools for the Analysis, Verification and Synthesis of Genetic Logic Circuits,
Publication: Research › Ph.D. thesis – Annual report year: 2017

Dragoni, Nicola; Giallorenzo, Saverio; Lafuente, Alberto; Mazzara, Manuel; Montesi, Fabrizio; Mustafin, Ruslan; Safina, Larisa / Microservices: Yesterday, Today, and Tomorrow.
Publication: Research - peer-review › Journal article – Annual report year: 2017

Ruecha, Nipapan; Lee, Jumi; Chae, Heedo; Cheong, Haena; Soum, Veasna; Preechakasedkit, Pattarachaya; Chailapakul, Orawon; Taney, Georgi Plamenov; Madsen, Jan; Rodthongkum, Nadnudda; Kwon, Oh-Sun; Shin, Kwanwoo / Paper-Based Microfluidic Chip for Multiple Electrochemical Assay Operated by a Wireless Portable Control System.
Publication: Research - peer-review › Journal article – Annual report year: 2017

Windh, Skyler ; Phung, Calvin ; Grissom, Daniel T. ; Pop, Paul; Brisk, Philip / Performance Improvements and Congestion Reduction for Routing-based Synthesis for Digital Microfluidic Biochips.
Publication: Research - peer-review › Journal article – Annual report year: 2016

Ausin, Daniel Sanz; Pezzarossa, Luca; Schoeberl, Martin / Real-Time Audio Processing on the T-CREST Multicore Platform.
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Faurholt-Jepsen, Maria; Frost, Mads; Martiny, Klaus; Tuxen, Nanna; Rosenberg, Nicole; Busk, Jonas; Winther, Ole; Bardram, Jakob Eyvind; Kessing, Lars Vedel / Reducing the rate and duration of Re-ADMISsions among patients with unipolar disorder and bipolar disorder using smartphone-based monitoring and treatment - the RADMIS trials: Study protocol for two randomized controlled trials.
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Cardarilli, Gian Carlo; Nannarelli, Alberto; Re, Marco / RNS Applications in Digital Signal Processing.
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Nannarelli, Alberto; Re, M.; Cardarilli, Gian Carlo; Nunzio, L. Di ; Brunella, M. Spaziani ; Fazzolari, R. ; Carbonari, F. / Robust Throughput Boosting for Low Latency Dynamic Partial Reconfiguration.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Pop, Paul; Scholle, Detlef; Sljivo, Irfan; Hansson, Hans; Widforss, Gunnar; Rosqvist, Malin / Safe Cooperating Cyber-Physical Systems using Wireless Communication.
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Minhass, Wajid Hassan; McDaniel, Jeffrey; Raagaard, Michael Lander; Brisk, Philip; Pop, Paul; Madsen, Jan / Scheduling and Fluid Routing for Flow-Based Microfluidic Laboratories-on-a-Chip.
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Handler, Daniel Tolboe; Hauge, Lotte; Spognardi, Angelo; Dragoni, Nicola / Security And Privacy Issues in Healthcare Monitoring Systems: A Case Study.
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Handler, Daniel Tolboe; Hauge, Lotte; Spognardi, Angelo; Dragoni, Nicola / Security And Privacy Issues in Healthcare Monitoring Systems: A Case Study.
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Argyriou, Marios; Dragoni, Nicola; Spognardi, Angelo / Security flows in OAuth 2.0 framework: A case study.
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Baig, Hasan; Madsen, Jan / Simulation Approach for Timing Analysis of Genetic Logic Circuits.
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Cresci, Stefano; Di Pietro, Roberto; Petrocchi, Marinella; Spognardi, Angelo; Tesconi, Maurizio / Social Fingerprinting: detection of spambot groups through DNA-inspired behavioral modeling.
Publication: Research - peer-review › Journal article – Annual report year: 2017

Potluri, Seetal; Schneider, Alexander Rüdiger; Hørslev-Petersen, Martin; Pop, Paul; Madsen, Jan / Synthesis of on-chip control circuits for mVLSI biochips.
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Patou, François; Dimaki, Maria; Kjærgaard, Claus; Madsen, Jan; Svendsen, Winnie Edith / System-Level Sensitivity Analysis of SiNW-bioFET-Based Biosensing Using Lockin Amplification.
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Baig, Hasan; Madsen, Jan / Taming Living Logic using Formal Methods.
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Munck, Allan; Madsen, Jan (Main supervisor); Lindqvist, Lars (Supervisor); Schmidt, Flemming (Supervisor); Pop, Paul (Supervisor) / Test-Driven, Model-Based Systems Engineering.
Publication: Research › Ph.D. thesis – Annual report year: 2017

Munck, Allan; Madsen, Jan / Test-driven modeling and development of cloud-enabled cyber-physical smart systems.
Cozza, Vittoria; Petrocchi, Marinella; Spognardi, Angelo / A Matter of Words : NLP for Quality Evaluation of Wikipedia Medical Articles.
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Bonnichsen, Lars Frydendal; Probst, Christian W. (Supervisor); Karlsson, Sven (Supervisor) / An Adaptive Middleware for Improved Computational Performance.
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Sørensen, Rasmus Bo; Pezzarossa, Luca; Sparso, Jens / An Area-Efficient TDM NoC Supporting Reconfiguration for Mode Changes.
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Schneider, Alexander Rüdiger; Pop, Paul; Madsen, Jan / A Pin-Count Reduction Algorithm for Flow-Based Microfluidic Biochips.
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Eskesen, Morten Chabert; Pop, Paul; Potluri, Seetal / Architecture Synthesis for Cost-Constrained Fault-Tolerant Flow-based Biochips.
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Kasapaki, Evangelia; Schoeberl, Martin; Sørensen, Rasmus Bo; Müller, Christoph; Goossens, Kees; Sparso, Jens / Argo: A Real-Time Network-on-Chip Architecture With an Efficient GALS Implementation.
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Rocha, André; Silva, Cláudio; Sørensen, Rasmus Bo; Sparsø, Jens; Schoeberl, Martin / Avionics Applications on a Time-Predictable Chip-Multiprocessor.

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Petrocchi, Marinella; Spognardi, Angelo; Santi, Paolo / Bioinspired Security Analysis of Wireless Protocols.

Herlev, Mathias; Sparsø, Jens / Clock domain crossing modules for OCP-style read/write interfaces.

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Nannarelli, Alberto; Taylor, Jonathan / Design and Simulation of a Quaternary Memory Cell based on a Physical Memristor.

Jiang, Wei; Pop, Paul; Jiang, Ke / Design optimization for security-and safety-critical distributed real-time applications.

Ody, Heinrich; Fränzle, Martin; Hansen, Michael Reichhardt / Discounted Duration Calculus.

Cresci, Stefano; Di Pietro, Roberto; Petrocchi, Marinella; Spognardi, Angelo; Tesconi, Maurizio / DNA-Inspired Online Behavioral Modeling and Its Application to Spambot Detection.
Goyal, Rohit; Spognardi, Angelo; Dragoni, Nicola; Argyriou, Marios / SafeDroid: A Distributed Malware Detection Service for Android.
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Kluge, Florian; Schoeberl, Martin; Ungerer, Theo / Support for the Logical Execution Time Model on a Time-predictable Multicore Processor.
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Alistar, Mirela; Pop, Paul; Madsen, Jan / Synthesis of Application-Specific Fault-Tolerant Digital Microfluidic Biochip Architectures.
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Kasting, Patrick Frederik Soelmark; Hansen, Michael Reichhardt; Vester, Steen / Synthesis of railway-signaling plans using reachability games.
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Falk, Heiko; Altmeeyer, Sebastian; Hellinckx, Peter; Lisper, Bjørn; Puffitsch, Wolfgang; Rochange, Christine; Schoeberl, Martin; Sørensen, Rasmus Bo; Wägemann, Peter; Wegener, Simon / TACLeBench: A benchmark collection to support worst-case execution time research.
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Patou, François; Dimaki, Maria; Svendsen, Winnie Edith; Kjærgaard, Claus; Madsen, Jan / A Smart Mobile Lab-on-Chip-Based Medical Diagnostics System Architecture Designed For Evolvability.
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Hindborg, Andreas Erik; Karlsson, Sven / **Hardware Realization of an FPGA Processor - Operating System Call Offload and Experiences.**
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