Fast architecture-level synthesis of fault-tolerant flow-based microfluidic biochips. / Huang, Wei Lun; Gupta, Ankur; Roy, Sudip; Ho, Tsung-Yi; Pop, Paul.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Fault-Tolerant Topology and Routing Synthesis for IEEE Time-Sensitive Networking. / Gavrilut, Voica Maria; Zarrin, Bahram; Pop, Paul; Samii, Soheil.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Helbredstjek af dansk sundhedsteknologi : Sektorudviklingsrapport. / Nielsen, Niels Axel; Bardram, Jakob Eyvind; Madsen, Jan; Jørgensen, John Bagterp; Riis, Mark Bernhard; Andersen, Henning Boje; Sørensen, Helge Bjarup Dissing; Svendsen, Winnie Edith; Andersen, Peter E.; Pryds, Nini; Lauritsen, Sune Nordentoft; Skov, Anne Ladegaard; Buch, Martin Jensen; Andersen, Morten; Billund, Charlotte Holm; Brückner, Lars; Kruse, Stine; Molzen, Jan Eiersted; Odgaard, Mads H.
Technical University of Denmark (DTU), 2017. 72 p.
Publication: Commissioned › Report – Annual report year: 2017

High-level synthesis for reduction of WCET in real-time systems. / Kristensen, Andreas Toftegaard; Pezzarossa, Luca; Sparse, Jens.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

High Performance with Prescriptive Optimization and Debugging. / Jensen, Nicklas Bo; Probst, Christian W. (Supervisor); Karlsson, Sven (Supervisor).
Kgs. Lyngby : Technical University of Denmark (DTU), 2017. 204 p. (DTU Compute PHD-2016; No. 437).
Publication: Research › Ph.D. thesis – Annual report year: 2017

Improve Loop Dependence Analysis. / Jensen, Nicklas Bo; Karlsson, Sven.
Publication: Research - peer-review › Journal article – Annual report year: 2017

Logic analysis and verification of n-input genetic logic circuits. / Baig, Hasan; Madsen, Jan.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

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

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

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

Performance Improvements and Congestion Reduction for Routing-based Synthesis for Digital Microfluidic Biochips. / Windh, Skyler; Phung, Calvin; Grissom, Daniel T.; Pop, Paul; Brisk, Philip.
Hardware locks for a real-time Java chip multiprocessor. / Strøm, Torur Biskopstø; Puffitsch, Wolfgang; Schoeberl, Martin.
Publication: Research - peer-review › Journal article – Annual report year: 2016

Implementation of Hardware Accelerators on Zynq. / Toft, Jakob Kenn; Nannarelli, Alberto (Supervisor).
Publication: Research › Report – Annual report year: 2016

Improved 64-bit Radix-16 Booth Multiplier Based on Partial Product Array Height Reduction. / Antelo, Elisardo; Montuschi, Paolo; Nannarelli, Alberto.
Publication: Research - peer-review › Journal article – Annual report year: 2016

Lessons learned from the EU project T-CREST. / Schoeberl, Martin.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Logic and Timing Analysis of Genetic Logic Circuits using D-VASim. / Baig, Hasan; Madsen, Jan.
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2016

Microfluidic Very Large Scale Integration (VLSI) : Modeling, Simulation, Testing, Compilation and Physical Synthesis. / Pop, Paul; Minhass, Wajid Hassan; Madsen, Jan.
Publication: Research - peer-review › Book – Annual report year: 2016

Mind the tracker you wear : a security analysis of wearable health trackers. / Goyal, Rohit; Dragoni, Nicola; Spognardi, Angelo.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Model-Based Evaluation Of System Scalability: Bandwidth Analysis For Smartphone-Based Biosensing Applications. / Patou, François; Madsen, Jan; Dimaki, Maria; Svendsen, Winnie Edith.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Performance/Power Space Exploration for Binary64 Division Units. / Nannarelli, Alberto.
Publication: Research - peer-review › Journal article – Annual report year: 2016

Proceedings of the 23rd International Symposium on Temporal Representation and Reasoning (TIME 2016). / Dyreson, Curtis (Editor); Hansen, Michael Reichhardt (Editor); Hunsberger, Luke (Editor).
Publication: Research › Book – Annual report year: 2016

Reconfiguration in FPGA-Based Multi-Core Platforms for Hard Real-Time Applications. / Pezzarossa, Luca; Schoeberl, Martin; Sparse, Jens.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016


Safety-critical Java for embedded systems. / Schoeberl, Martin; Dalsgaard, Andreas Engelbreit; Hansen, René Rydhof; Korsholm, Stephan E.; Ravn, Anders P.; Rios Rivas, Juan Ricardo; Strøm, Torur Biskopste; Søndergaard, Hans; Wellings, Andy; Zhao, Shuai. In: Concurrency and Computation: Practice & Experience, 2016. Publication: Research - peer-review › Journal article – Annual report year: 2016


Smartphone-based biosensing platform evolution: implementation of electrochemical analysis capabilities. / Patou, François; Dimaki, Maria; Svendsen, Winnie Edith; Kjaergaard, Claus; Madsen, Jan. Proceedings of the 10th International Symposium on Medical Information and Communication Technology (ISMICT). IEEE, 2016. Publication: Research - peer-review › Article in proceedings – Annual report year: 2016


TACLeBench: A benchmark collection to support worst-case execution time research. / Falk, Heiko; Altmeyer, Sebastian; Hellinckx, Peter; Lisper, Bjorn; Puffitsch, Wolfgang; Rochange, Christine; Schoeberl, Martin; Sørensen, Rasmus Bo; Wägemann, Peter; Wegener, Simon. In: Open Access Series in Informatics, Vol. 55, 2016, p. 2.1-2.10. Publication: Research - peer-review › Journal article – Annual report year: 2016
The Personal Health Technology Design Space. / Bardram, Jakob Eyvind; Frost, Mads.
Publication: Research - peer-review › Journal article – Annual report year: 2016

The SafeCOP ECSEL Project: Safe Cooperating Cyber-Physical Systems Using Wireless Communication. / Pop, Paul; Scholle, Detlef; Hansson, Hans; Widforss, Gunnar; Rosqvist, Malin.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Time-Predictable Communication on a Time-Division Multiplexing Network-on-Chip Multicore. / Sørensen, Rasmus Bo; Sparsoe, Jens (Supervisor); Schoeberl, Martin (Supervisor).
Kgs. Lyngby : Technical University of Denmark (DTU), 2016. 143 p. (DTU Compute PHD-2016; No. 423).
Publication: Research › Ph.D. thesis – Annual report year: 2016

Time-predictable Stack Caching. / Abbaspourseyedi, Sahar; Schoeberl, Martin (Supervisor); Sparsoe, Jens (Supervisor).
Publication: Research › Ph.D. thesis – Annual report year: 2016

Time-Predictable Virtual Memory. / Puffitsch, Wolfgang; Schoeberl, Martin.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Timing Analysis of Genetic Logic Circuits using D-VASim. / Baig, Hasan; Madsen, Jan.
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Towards Unifying OpenMP Under the Task-Parallel Paradigm Implementation and Performance of the taskloop Construct. / Podobas, Artur; Karlsson, Sven.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Traffic class assignment for mixed-criticality frames in TTEthernet. / Gavrilut, Voica Maria; Pop, Paul.
Publication: Research - peer-review › Conference article – Annual report year: 2016

Voice analysis as an objective state marker in bipolar disorder. / Faurholt-Jepsen, M.; Busk, Jonas; Frost, M.; Vinberg, M.; Christensen, E. M.; Winther, Ole; Bardram, Jakob Eyvind; Kessing, L. V.
Publication: Research - peer-review › Journal article – Annual report year: 2016

Voice analysis as an objective state marker in bipolar disorder. / Faurholt-Jepsen, M.; Busk, J.; Frost, M.; Vinberg, M.; Christensen, E. M.; Winther, Ole; Bardram, Jakob Eyvind; Kessing, L. V.
Publication: Research - peer-review › Conference abstract in journal – Annual report year: 2016

Why Hackers Love eHealth Applications. / Goyal, Rohit; Dragoni, Nicola.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Publication: Research - peer-review › Journal article – Annual report year: 2015

Publication: Research - peer-review › Journal article – Annual report year: 2015

Publication: Research - peer-review › Journal article – Annual report year: 2015

An Asynchronous Time-Division-Multiplexed Network-on-Chip for Real-Time Systems. / Kasapaki, Evangelia; Sparsø, Jens (Supervisor); Schoeberl, Martin (Supervisor).
Publication: Research › Ph.D. thesis – Annual report year: 2015

A Probabilistic Approach for the System-Level Design of Multi-ASIP Platforms. / Micconi, Laura; Madsen, Jan (Supervisor) ; Pop, Paul (Supervisor).
Publication: Research › Ph.D. thesis – Annual report year: 2015

A Scalable Prescriptive Parallel Debugging Model. / Jensen, Nicklas Bo; Quarfoet Nielsen, Niklas ; Lee, Gregory L.; Karlsson, Sven ; Legendre, Matthew ; Schulz, Martin; Ahn, Dong H.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

A Smart Mobile Lab-on-Chip-Based Medical Diagnostics System Architecture Designed For Evolvability. / Patou, François ; Dimaki, Maria; Svendsen, Winnie Edith; Kjærgaard, Claus; Madsen, Jan.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

A Time-Composable Operating System for the Patmos Processor. / Ziccardi, Marco ; Schoeberl, Martin; Vardanega, Tullio .
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Attributes Enhanced Role-Based Access Control Model. / Mahmood Rajpoot, Qasim; Jensen, Christian D.; Krishnan, Ram
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Characterization of RNS multiply-add units for power efficient DSP. / Cardarilli, Gian Carlo; Nannarelli, Alberto; Petricca, Massimo; Re, Marco.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Publication: Research - peer-review › Journal article – Annual report year: 2015

Design of Mixed-Criticality Applications on Distributed Real-Time Systems. / Tamas-Selicean, Domitian; Pop, Paul (Main supervisor); Madsen, Jan (Supervisor). Kgs. Lyngby: Technical University of Denmark (DTU), 2015. 160 p. (DTU Compute PHD-2014; No. 329).
Publication: Research › Ph.D. thesis – Annual report year: 2015

Publication: Research - peer-review › Journal article – Annual report year: 2015

Publication: Research - peer-review › Journal article – Annual report year: 2014

Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Fame for sale: Efficient detection of fake Twitter followers. / Cresci, Stefano; Di Pietro, Roberto; Petrocchi, Marinella; Spognardi, Angelo; Tesconi, Maurizio.
Publication: Research - peer-review › Journal article – Annual report year: 2015

Fault Detection in WSNs - An Energy Efficiency Perspective Towards Human-Centric WSNs. / Orfanidis, Charalampos; Zhang, Yue; Dragoni, Nicola.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Fault-Tolerant Digital Microfluidic Biochips: Compilation and Synthesis. / Pop, Paul (Editor); Alistar, Mirela (Editor); Stuart, Elena (Editor); Madsen, Jan (Editor).
Publication: Research › Book – Annual report year: 2015

Fault-Tolerant Topology Selection for TTEthernet Networks. / Gavrilut, Voica Maria; Tamas-Selicean, Domitian; Pop, Paul.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Fernando: An educational ahead-of-time bytecode compiler. / Puffitsch, Wolfgang.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Flow-Based Biochips: Fault-Tolerant Design and Error Recovery. / Pop, Paul.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Hardware Locks with Priority Ceiling Emulation for a Java Chip-Multiprocessor. / Strøm, Torur Biskopstø; Schoeberl, Martin.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Hardware Transactional Memory Optimization Guidelines, Applied to Ordered Maps. / Bonnichsen, Lars Frydendal; Probst, Christian W.; Karlsson, Sven.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Implementation of an Ethernet-Based Communication Channel for the Patmos Processor. / Pezzarossa, Luca; Kenn Toft, Jakob; Lønbæk, Jesper; Barnes, Russell.
Publication: Research › Report – Annual report year: 2015

Integrating Attributes into Role-Based Access Control. / Mahmood Rajpoot, Qasim; Jensen, Christian D.; Krishnan, Ram.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015
Interfacing Hardware Accelerators to a Time-Division Multiplexing Network-on-Chip. / Pezzarossa, Luca; Sørensen, Rasmus Bo; Schoeberl, Martin; Sparæ, Jens.
Publication: Research › peer-review › Article in proceedings – Annual report year: 2015

Introduction. / Pop, Paul; Alistar, Mirela; Stuart, Elena; Madsen, Jan.
Publication: Research › Book chapter – Annual report year: 2015

Message Passing on a Time-predictable Multicore Processor. / Sørensen, Rasmus Bo; Puffitsch, Wolfgang; Schoeberl, Martin; Sparæ, Jens.
Publication: Research › peer-review › Article in proceedings – Annual report year: 2015

Microfluidic very large-scale integration for biochips: Technology, testing and fault-tolerant design. / Araci, Ismail Emre; Pop, Paul; Chakrabarty, Krishnendu.
Publication: Research › peer-review › Article in proceedings – Annual report year: 2015

Publication: Research › Ph.D. thesis – Annual report year: 2015

Models of Communication for Multicore Processors. / Schoeberl, Martin; Sørensen, Rasmus Bo; Sparæ, Jens.
Publication: Research › peer-review › Article in proceedings – Annual report year: 2015

Off-line mapping of multi-rate dependent task sets to many-core platforms. / Puffitsch, Wolfgang; Noulard, Eric; Pagetti, Claire.
Publication: Research › peer-review › Journal article – Annual report year: 2015

Publication: Research › Ph.D. thesis – Annual report year: 2015

Optimal Sceduling of Stochastic Production Processes Through Model Checking. / Herbert, Luke Thomas; Hansen, Zaza Nadja Lee; Sharp, Robin; Jacobsen, Peter.
Persistence-Based Branch Misprediction Bounds for WCET Analysis. / Puffitsch, Wolfgang.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Physical trust-based persistent authentication. / Fujita, Masahiro ; Jensen, Christian D.; Arimura, Shiori ; Ikeya, Yuki ; Nishigaki, Masakatsu.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Pin count-aware biochemical application compilation for mVLSI biochips. / Lander Raagaard, Michael; Pop, Paul.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Power and thermal efficient numerical processing. / Liu, Wei; Nannarelli, Alberto.
Publication: Research - peer-review › Book chapter – Annual report year: 2015

Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Receiver-initiated medium access control protocols for wireless sensor networks. / Fafoutis, Xenofon; Di Mauro, Alessio; Vithanage, Madava D.; Dragoni, Nicola.
Publication: Research - peer-review › Journal article – Annual report year: 2014

Redundancy Optimization for Error Recovery in Digital Microfluidic Biochips. / Alistar, Mirela; Pop, Paul; Madsen, Jan.
Publication: Research - peer-review › Journal article – Annual report year: 2015

Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Safety-critical Java on a time-predictable processor. / Korsholm, Stephan E.; Schoeberl, Martin; Puffitsch, Wolfgang.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Stack Caching Using Split Data Caches. / Nielsen, Carsten; Schoeberl, Martin.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015
Synthesis of Biochemical Applications on Digital Microfluidic Biochips with Operation Execution Time Variability. / Alistar, Mirela; Pop, Paul.
Publication: Research - peer-review › Journal article – Annual report year: 2015

System-level synthesis of multi-ASIP platforms using an uncertainty model. / Micconi, Laura; Madsen, Jan; Pop, Paul.
Publication: Research - peer-review › Journal article – Annual report year: 2015

T-CREST: Time-predictable multi-core architecture for embedded systems. / Schoeberl, Martin; Abbaspourseyedi, Sahar; Jordan, Alexander; Kasapaki, Evangelia; Puffitsch, Wolfgang; Sparsø, Jens; Akesson, Benny; Audsley, Neil; Garside, Jamie; Capasso, Raffaele; Occhi, Alessandro; Goossens, Kees; Goossens, Sven; Li, Yonghui; Hansen, Scott; Heckmann, Reinhold; Hepp, Stefan; Huber, Benedikt; Knoop, Jens; Prokesch, Daniel; Puschner, Peter; Rocha, André; Silva, Cláudio.
Publication: Research - peer-review › Journal article – Annual report year: 2015

Test-driven modeling of embedded systems. / Munck, Allan; Madsen, Jan.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

The Argo NOC: Combining TDM and GALS. / Kasapaki, Evangelia; Sparsø, Jens.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Thermal Aware Floorplanning Incorporating Temperature Dependent Wire Delay Estimation. / Winther, AndreasThor; Liu, Wei; Nannarelli, Alberto; Vrudhula, Sarma.
Publication: Research - peer-review › Journal article – Annual report year: 2015

Time-division multiplexing vs network calculus: A comparison. / Puffitsch, Wolfgang; Sørensen, Rasmus Bo; Schoeberl, Martin.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Timing Analysis of Rate Constrained Traffic for the TTEthernet Communication Protocol. / Tamas-Selicean, Domitian; Pop, Paul; Steinier, Wilfried.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Towards droplet size-aware biochemical application compilation for AM-EWOD biochips. / Pop, Paul; Alistar, Mirela.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Publication: Research - peer-review › Book chapter – Annual report year: 2015

Publication: Research - peer-review › Article in proceedings – Annual report year: 2015
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Publication: Research - peer-review › Journal article – Annual report year: 2014

A flexible mobile-device biosensing instrumentation platform for point-of-care medical diagnostics applications. / Patou, François; Pfreundt, Andrea; Zulfiqar, Azeem; Dimaki, Maria; Kjærgaard, Claus; Madsen, Jan; Svendsen, Winnie Edith. 2014. Poster session presented at 24th Anniversary World Congress on Biosensors, Melbourne, Australia.
Publication: Research - peer-review › Poster – Annual report year: 2014

Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Publication: Research - peer-review › Journal article – Annual report year: 2014

Publication: Research › Report – Annual report year: 2014

Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Publication: Research - peer-review › Conference article – Annual report year: 2014

Publication: Research - peer-review › Article in proceedings – Annual report year: 2014
Hardware Realization of an FPGA Processor - Operating System Call Offload and Experiences. / Hindborg, Andreas Erik; Karlsson, Sven.
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

Hardware Realization of an FPGA Processor – Operating System Call Offload and Experiences. / Hindborg, Andreas Erik; Schleuniger, Pascal; Jensen, Nicklas Bo; Karlsson, Sven.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Improving Usability of Passphrase Authentication. / Nielsen, Glen; Vedel, Michael; Jensen, Christian D.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Lazy Spilling for a Time-Predictable Stack Cache: Implementation and Analysis. / Abbaspourseyedi, Sahar; Jordan, Alexander; Brandner, Florian.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Library Support for Resource Constrained Accelerators. / Brock-Nannestad, Laust; Karlsson, Sven.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Medium Access Control In Energy Harvesting - Wireless Sensor Networks. / Fafoutis, Xenofon; Dragoni, Nicola (Main supervisor); Madsen, Jan (Supervisor).
Publication: Research › Ph.D. thesis – Annual report year: 2014

MPI Debugging with Handle Introspection. / Brock-Nannestad, Laust; DelSignore, John; Squyres, Jeffrey M.; Karlsson, Sven; Mohror, Kathryn.
Publication: Research - peer-review › Paper – Annual report year: 2014

Online Synthesis for Operation Execution Time Variability on Digital Microfluidic Biochips. / Alistar, Mirela; Pop, Paul.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Open Core Protocol (OCP) Clock Domain Crossing Interfaces. / Herlev, Mathias; Poulsen, Christian Keis; Sparsoe, Jens.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Performance Aspects of Synthesizable Computing Systems. / Schleuniger, Pascal; Karlsson, Sven (Main supervisor); Madsen, Jan (Supervisor). Kgs. Lyngby : Technical University of Denmark (DTU), 2014. 213 p. (DTU Compute PHD-2014; No. 337).
Publication: Research › Ph.D. thesis – Annual report year: 2014

Programming language and tools for Multipurpose Lab-on-a-Chip Platforms. / Pop, Paul; Madsen, Jan; Understrup, Kasper; Alistar, Mirela; Minhass, Wajid Hassan; Krühne, Ulrich. 2014. Poster session presented at 6th Annual Lab-on-a-Chip European Congress, Berlin, Germany.
Publication: Research - peer-review › Poster – Annual report year: 2014

Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Publication: Research › Ph.D. thesis – Annual report year: 2014

Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Publication: Research - peer-review › Poster – Annual report year: 2014

Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2014

Publication: Research › Ph.D. thesis – Annual report year: 2014

Publication: Research - peer-review › Article in proceedings – Annual report year: 2014
An SDRAM controller for real-time systems. / Lakis, Edgar; Schoeberl, Martin.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Application-specific fault-tolerant architecture synthesis for digital microfluidic biochips. / Alistar, Mirela; Pop, Paul; Madsen, Jan.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

ASAM: Automatic architecture synthesis and application mapping. / Jozwik, Lech; Lindwer, Menno; Corvino, Rosilde; Meloni, Paolo; Micconi, Laura; Madsen, Jan; Diken, Erkan; Gangadharan, Deepak; Jordans, Roel; Pomata, Sebastiano; Pop, Paul; Tuveri, Giuseppe; Raffo, Luigi; Notarangelo, Giuseppe.
Publication: Research - peer-review › Journal article – Annual report year: 2014

A Time-predictable Stack Cache. / Abbaspour, Sahar; Brandner, Florian; Schoeberl, Martin.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

A Time-predictable Stack Cache. / Abbaspour, Sahar; Brandner, Florian; Schoeberl, Martin.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

BCI using imaginary movements: The simulator. / Rohani, Darius Adam; Henning, William S.; Thomsen, Carsten E.; Kjaer, Troels W.; Puthusserypady, S.; Sorensen, Helge B.D.
Publication: Research - peer-review › Journal article – Annual report year: 2013

Biochemical Application Compilation and Architecture Synthesis for Fault-Tolerant Digital Microfluidic Biochips. / Alistar, Mirela; Pop, Paul; Madsen, Jan.
2013 Poster session presented at Lab-on-a-Chip World Congress, San Diego, CA, United States.
Publication: Research - peer-review › Poster – Annual report year: 2014

Chip-Multiprocessor Hardware Locks for Safety-Critical Java. / Strøm, Torur Biskopste; Puffitsch, Wolfgang; Schoeberl, Martin.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Control Synthesis for the Flow-Based Microfluidic Large-Scale Integration Biochips. / Minhass, Wajid Hassan; Pop, Paul; Madsen, Jan; Ho, Tsung-Yi.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Data cache organization for accurate timing analysis. / Schoeberl, Martin; Huber, Benedikt; Puffitsch, Wolfgang.
Publication: Research - peer-review › Journal article – Annual report year: 2013

Detecting and Preventing Beacon Replay Attacks in Receiver-Initiated MAC Protocols for Energy Efficient WSNs. / Di Mauro, Alessio; Fafouts, Xenofon; Mödersheim, Sebastian Alexander; Dragoni, Nicola.
Dynamic allocation and admission policies for QoS-aware provisioning systems. / Mazzucco, M.; Mazzara, M.; Dragoni, Nicola.
Publication: Research - peer-review › Journal article – Annual report year: 2013

ELB-trees an efficient and lock-free B-tree derivative. / Bonnichsen, Lars Frydendal; Karlsson, Sven; Probst, Christian W.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

ELB-trees - Efficient Lock-free B+trees. / Bonnichsen, Lars Frydendal; Karlsson, Sven; Probst, Christian W.
Publication: Research › Poster – Annual report year: 2014

Explicit Precedence Constraints in Safety-Critical Java. / Puffitsch, Wolfgang; Nould, Eric; Pagetti, Claire.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Formal methods for design and simulation of embedded systems. / Jakobsen, Mikkel Koefoed; Madsen, Jan (Main supervisor); Hansen, Michael Reichhardt (Supervisor).
Publication: Research › Ph.D. thesis – Annual report year: 2014

Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Functional Programming Using F#. / Hansen, Michael Reichhardt; Rischel, Hans.
Publication: Research › Book – Annual report year: 2013

Hardware support for CSP on a Java chip multiprocessor. / Gruian, Flavius; Schoeberlg, Martin.
In: Microprocessors and Microsystems, Vol. 37, No. 4-5, 2013, p. 472-481.
Publication: Research - peer-review › Journal article – Annual report year: 2013

Hierarchical DSE for multi-ASIP platforms. / Micconi, Laura; Corvino, Rosilde; Gangadhara, Deepak; Madsen, Jan; Pop, Paul; Jozwikl, Lech.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Layout-Driven Post-Placement Techniques for Temperature Reduction and Thermal Gradient Minimization. / Liu, Wei; Calimera, Andrea; Macci, Alberto; Macci, Enrico; Nannarelli, Alberto; Poncino, Massimo.
Publication: Research - peer-review › Journal article – Annual report year: 2013

Medium Access Control for Thermal Energy Harvesting in Advanced Metering Infrastructures. / Vithanage, Madava D.; Fafouts, Xenofon; Andersen, Claus Bo; Dragoni, Nicola.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013
Publication: Research - peer-review › Journal article – Annual report year: 2013

Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Publication: Research - peer-review › Journal article – Annual report year: 2013

Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Publication: Research - peer-review › Journal article – Annual report year: 2013

Publication: Research - peer-review › Article in proceedings – Annual report year: 2013
Attacker Modelling in Ubiquitous Computing Systems. / Papini, Davide; Sharp, Robin (Main supervisor); Jensen, Christian D. (Supervisor).
Publication: Research › Ph.D. thesis – Annual report year: 2014

Direct Measurement of Power Dissipated by Monte Carlo Simulations on CPU and FPGA Platforms. / Albicocco, Pietro; Papini, Davide; Nannarelli, Alberto.
Publication: Research › Report – Annual report year: 2013

Parallelizing More Loops with Compiler Guided Refactoring. / Larsen, Per; Ladelsky, Razya; Lidman, Jacob ; McKee, Sally A.; Karlsson, Sven ; Zaks, Ayal.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Software Managed Cache for Parallel Systems. / Schleuniger, Pascal; Karlsson, Sven .
Publication: Research › Poster – Annual report year: 2014

System-Level Modeling and Synthesis Techniques for Flow-Based Microfluidic Very Large Scale Integration Biochips. / Minhass, Wajid Hassan; Pop, Paul (Main supervisor); Madsen, Jan (Supervisor).
Publication: Research › Ph.D. thesis – Annual report year: 2013

Timing Analysis of Mixed-Criticality Hard Real-Time Applications Implemented on Distributed Partitioned Architectures. / Marinescu, Sorin Ovidiu ; Tamas-Selicean, Domitian; Acretoaie, Vlad; Pop, Paul.
Publication: Research - peer-review › Paper – Annual report year: 2013