

Workshop Self-optimisation in organic and autonomic computing systems

A Concept for Securing Cyber-Physical Systems with Organic Computing Techniques

Jörg Hähner, Stefan Rudolph, Sven Tomforde, Dominik Fisch, Bernhard Sick, Nils Kopal and Arno Wacker

Solving Distributed Dynamic Optimization Problems in Self-optimizing Systems by Approximating the Interaction between Agents

Sebastian Niemann, Christian Müller-Schloer and Mathias Pacher

Function Based Benchmarks to Abstract Parallel Hardware and Predict Efficient Code Partitioning

Ioannis Zgeras, Jürgen Brehm and Mark Akselrod

Workshop

Dependability and Fault Tolerance

Hierarchical Dependability Models Based on Markov Chains

Martin Kohlík and Hana Kubátová

Efficient Acknowledgement and Retransmission Techniques for Bus-Systems

Johannes Formann and Klaus Echtele

Expressing validity estimates in smart sensor applications

Tino Brade, Jörg Kaiser and Sebastian Zug

An Optimized Timing and Control Flow Checker for Hard Real-Time Systems

Julian Wolf and Theo Ungerer

Adaptation of Coupling-Based Reliability Testing for Safety-Relevant Software

Matthias Meitner and Francesca Saglietti

System for Radiation Testing of FPGAs Partitioning

Tomas Vanat and Hana Kubatova

Reliability Modeling of Fault-tolerant Storage System - Covering MDS-Codes and Regenerating Codes

Peter Sobe

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Ultra-Low Power Sensor Networks

On the Energy Savings of Adaptive Transmit Power for Wireless Sensor Networks Radio Transceivers

Muhammad Mahtab Alam, Olivier Berder, Daniel Menard and Olivier Sentieys

Simplified Commissioning and Maintenance for Wireless Sensor Networks: a Novel Software Tool

Levente Barta, David Boyle¹, Brendan O'Flynn and Emanuel Popovici

Prototyping an Energy Harvesting Wireless Sensor Network Application Using HarvWSNet

Florian Broekaert, Amine Didioui, Carolyn Bernier and Olivier Sentieys

Mobility Management Approach for IEEE802.15.4/ZigBee Nodes in a Noisy Environment

Chiraz Chaabane, Alain Pegatoquet, Michel Auguin and Maher Ben Jemaa

Adaptive Filter for Energy Predictor in Energy Harvesting Wireless Sensor Networks

Trong Nhan Le, Olivier Sentieys, Olivier Berder, Alain Pegatoquet and Cecile Belleudy

Combination of hybrid energy harvesters with MEMS piezoelectric and nano-Watt radio wake up to extend lifetime of system for wireless sensor nodes

Michele Magno, Nathan Jackson, Alan Mathewson, Luca Benini and E. Popovici

Efficient Building Automation Simulation Using System on Chip Simulation Techniques

Joseph Wenninger and Jan Haase