3rd FORMUS3IC Workshop

Room: Weitblick

Chairs:
Dietmar Fey, Univ. Erlangen-Nuremberg, Germany
Jürgen Mottok, OTH Regensburg, Germany

Session 1: 13:00-14:30
Reverse Engineering the Timing Parameters of the I/O-System in Microcontrollers
G. Seifert, S. Hiergeist

Work-in-Progress: Real-Time Scheduling of Parallel Applications with Gang Scheduling
T. Langer, L. Osinski, M. Schmid, J. Mottok

Parallel Active Object Pattern
M. Schmid, T. Langer, L. Osinski, J. Mottok

Coffee break

Session 2: 15:00-16:00
PyFI - Fault Injection Platform for Real Hardware
L. Osinski, T. Langer, M. Schmid, J. Mottok

Latency Measurements for an Emulation Platform on Autonomous Driving Platform NVIDIA Drive PX2
C. Widenspick, W. Bauer, D. Fey
13th GI/ITG Workshop on Parallel Systems and Algorithms (PASA)
Room: Aula

Chairs:
Wolfgang Karl, KIT, Germany
Rolf Wanka, Univ. Erlangen-Nuremberg, Germany

Session 1: 13:00-14:30
Towards Automatic Compiler-assisted Performance and Energy Modeling for Message Passing Parallel Programs
P. Gschwandtner, A. Hirsch, S. Benedict, T. Fahringer

Tracing of Multi-Threaded Java Applications in Score-P Using Bytecode Instrumentation
J. Frenzel, K. Feldhoff, R. Jakel, R. Müller-Pfefferkorn

A Target Platform Description Language for Parallel Code Generation
C. Schmitt, F. Hannig, J. Teich

Coffee break

Session 2: 15:00-16:30
Mapped Taskgraphs as a Tool for Optimization in Static Taskgraph Scheduling
J. Keller, P. Eitschberger

Evaluation of Dynamic Task Scheduling Algorithms in a Runtime System for Heterogeneous Architectures
T. Becker, P. Busse, T. Schuele

Parallel Exploration of an Unknown Random Forest
J. Keller, P. Eitschberger

6th International GI/ITG Workshop on Self-Optimisation in Autonomic and Organic Computing Systems (SAOS)
Room: Veolia

Chairs:
Anthony Stein, Jörg Hähner, Univ. Augsburg, Germany
Sven Tomforde, Univ. of Kassel, Germany
Jean Botev, Univ. of Luxembourg, Luxembourg

Session 1: 12:00-12:50
Welcome and Organisation
A. Stein

Key Note: Extending Self-Optimization and Self-improvement from Tasks to Situations
Dr. Kirstie Bellman (Topcy House Consulting)

Short break

Session 2: 13:00-14:30
Self-integrating Organic Control Systems: from Crayfish to Smart Homes
A. Diaconescu, P. Mata, K. Bellman

Towards an Organic Computing Approach to Automated Design of Processing Pipelines
A. Stein, A. Margraf, J. Moroskow, S. Geinitz, J. Hähner

A Concept for Productivity Tracking based on Collaborative Interactive Learning Techniques
A. Calma, J. Kuhn, J. M. Leimeister, P. Lukowicz, S. Oeste-Reiß, A. Schmidt, B. Sick, G. Stumme, S. Tomforde, A.K. Zweig

Coffee break

(see next column for Session 3)

General Information:
Workshop Dinner
1st Floor, 18:00