

6th International Workshop on Multi-/Many-Core Computing Systems (MuCoCoS-2013)



<http://www.ida.liu.se/conferences/mucocos2013>

Saturday, Sept. 7, 2013, Edinburgh, Scotland, UK
In conjunction with PACT-2013

PROGRAM

09:00 – 09:10 Opening (Christoph Kessler, Linköping University)

09:10 - 10:10 Keynote I – Chair: Francois Bodin (IRISA)

∴ *Dataflow Language Compilation for a Single Chip Massively Parallel Processor*, Benoit Dupont de Dinechin (Kalray)

10:30 - 12:30 Contributed Papers Session 1: Performance Optimization – Chair: Guang Gao (Univ. Delaware)

∴ *Automatic Extraction of Multi-Objective Aware Parallelism for Heterogeneous MPSoCs*, Daniel Cordes, Michael Engel, Olaf Neugebauer, and Peter Marwedel (TU Dortmund)

∴ *Optimizing Sparse Matrix Vector Multiplication on Emerging Multicores*, Orhan Kislal, Wei Ding, Mahmut Kandemir (Pennsylvania State University) and Ilteris Demirkiran (Embry-Riddle Aero. Univ.)

∴ *Quantifying the Performance Impacts of Using Local Memory for Many-Core Processors*, Jianbin Fang (TU Delft), Ana Lucia Varbanescu (Univ. of Amsterdam) and Henk Sips (TU Delft)

∴ *Topology-aware Equipartitioning with Coscheduling on Multicore Systems*, Jan H. Schönherr, Ben Juurlink and Jan Richling (TU Berlin)

14:00 - 15:00 Keynote II – Chair: Lasse Natvig (NTNU Trondheim)

∴ *Multiscale Dataflow Computing*, Oliver Pell (Maxeler)

15:00 - 15:30 Contributed Papers Session 2: Portability – Chair: Lasse Natvig (NTNU Trondheim)

∴ *One OpenCL to Rule Them All?* Romain Dolbeau (CAPS entreprise), Francois Bodin (IRISA) and Guillaume Colin de Verdiere (CEA, DAM, DIF)

16:00 - 17:30 Contributed Papers Session 3: Compiler/Run-time Support and Data Structures – Chair: Benoit Dupont de Dinechin (Kalray)

∴ *Algorithmic Species Revisited: A Program Code Classification Based on Array References*, Cedric Nugteren, Rosilde Corvino, and Henk Corporaal (Eindhoven University of Technology)

∴ *Towards a Compiler/Runtime Synergy to Predict the Scalability of Parallel Loops*, Georgios Chatzopoulos (National Techn. Univ. of Athens), Kornilios Kourtis (ETH Zurich), Nectarios Koziris and Georgios Goumas (National Techn. Univ. of Athens)

∴ *ELB-Trees: An Efficient and Lock-free B-tree Derivative*, Lars F. Bonnichsen, Sven Karlsson, Christian W. Probst (Technical University of Denmark)

WORKSHOP ORGANIZATION

Christoph Kessler, Linköping University, Sweden

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