Message from the MuCoCoS-2013 Workshop Chairs
Christoph Kessler (Linköping University) and Sabri Pllana (Linnaeus University)

KEYNOTE ABSTRACTS (IN PROGRAM ORDER)

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

Multiscale Dataflow Computing
Oskar Mencer (Maxeler)

CONTRIBUTED PAPERS (IN PROGRAM ORDER)

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 Aeronautical University).

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)

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

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 Zürich), 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, and Christian W. Probst (Technical University of Denmark)