



10th Workshop on Parallel Systems and Algorithms

PASA 2012

in conjunction with

[International Conference on Architecture of Computing Systems \(ARCS 2012\)](#)
Munich, Germany, February 29, 2012

Workshop Program

- 08:30 **Welcome**, *J. Keller, R. Wanka*
- 08:30 – 09:30 **Session 1: Codes and Networks** (Session Chair: TBD)
Resilient data encoding for fault-prone signal transmission in parallelized signed-digit based arithmetic, *D. Neuhäuser, E. Zehendner*
The Spectral Relation between the Cube-Connected Cycles and the Shuffle-Exchange Network
C. Riess, V. Strehl, R. Wanka
- 09:30 – 10:30 **Session 2: Applications** (Session Chair: TBD)
Parallelization Strategies to Speed-Up Computations for Terrain Analysis on Multi-Core Processors, *S. Schiele, H. Blaar, D. Thürkow, M. Möller, M. Müller-Hanneman*
A Speed-Up Study for a Parallelized White Light Interferometry Preprocessing Algorithm on a Virtual Embedded Multiprocessor System, *D. Schoenwetter, M. Schneider, D. Fey*
- 10:30 – 11:00 Break
- 11:00 – 12:00 **Session 3: Infrastructure and Storage Systems** (Session Chair: TBD)
Achieving scalability for job centric monitoring in a distributed infrastructure,
M. Hilbrich, R. Müller-Pfefferkorn
Parallel coding for storage systems – An OpenMP and OpenCL capable framework, *P. Sobe*
- 12:00 – 12:30 **Meeting of FG PARS** (Mitgliederversammlung und Leitungsgremium)
- 12:30 – 13:45 Lunch Break
- 13:45 – 14:00 PARS Prize
- 14:00 – 15:15 **Keynote** (Session Chair: TBD)
Fooling the masses with performance results: Classic bestsellers and some new ideas
G. Wellein
- 15:15 – 15:45 Break
- 15:45 – 16:45 **Session 4: Scheduling and I/O** (Session Chair: TBD)
I/O-efficient approximation of graph diameters by parallel cluster growing – a first experimental study, *D. Ajwani, A. Beckmann, U. Meyer, D. Veith*
Flexible Scheduling and Thread Allocation for Synchronous Parallel Tasks
C. W. Kessler, E. Hansson
- 16:45 **Closing Remarks**, *J. Keller, R. Wanka*

Note: at 17:00, there is a keynote talk by K. De Bosschere at the ARCS conference