Workshop Program

09:00 – 09:05  Welcome, J. Keller, R. Wanka

09:05 – 10:05  Session 1: Coding for Fault-Tolerant Parallel Systems (Session Chair: TBD)
Resilient data encoding for fault-prone signal transmission in parallelized signed-digit based
arithmetic, D. Neuhäuser, E. Zehendner
Parallel coding for storage systems – An OpenMP and OpenCL capable framework, P. Sobe

10:05 – 10:20  Break

10:20 – 11:20  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

11:20 – 11:35  Break

11:35 – 12:35  Session 3: Scalable Computing (Session Chair: TBD)
Achieving scalability for job centric monitoring in a distributed infrastructure,
M. Hilbrich, R. Müller-Pfefferkorn
I/O-efficient approximation of graph diameters by parallel cluster growing – a first experimental
study, D. Ajwani, A. Beckmann, U. Meyer, D. Veith

12:35 – 13:55  Lunch Break

13:55 – 14:00  PARS Prize

14:00 – 15:00  Keynote (Session Chair: TBD)
Title TBD, G. Wellein

15:00 – 15:15  Break

15:15 – 16:15  Session 4: Parallelism Theory (Session Chair: TBD)
The Spectral Relation between the Cube-Connected Cycles and the Shuffle-Exchange Network
C. Riess, V. Strehl, R. Wanka
Flexible Scheduling and Thread Allocation for Synchronous Parallel Tasks
C. W. Kessler, E. Hansson

16:15 – 16:20  Closing Remarks, J. Keller, R. Wanka

Note: at 16:30, the Fachgruppe PARS will hold a meeting (Mitgliederversammlung und Sitzung des
Leitungsgremiums) for election of the organizing team and speaker in the 2013 election period