



# 23rd PARS-Workshop in conjunction with ARCS 2010



Hannover, February 23, 2010  
GI/ITG-Fachgruppe 'Parallel-Algorithmen, -  
Rechnerstrukturen und -Systemsoftware (PARS)'

## FINAL PROGRAM

- 08:00**                      **Registration**
- 08:15 – 08:20**            **Welcome**
- Session 1: Parallel and Distributed Algorithms (Session Chair: J. Keller)**
- 08:20 – 08:45            Improved bitonic sorting by wire elimination  
*M. Mühlenthaler, R. Wanka*
- 08:45 – 09:10            Parallel join processing on graphics processors for the resource  
description framework  
*J. Senn*
- 09:10 – 09:35            Modelling data distribution for two-phase flow problems by weighted  
graphs  
*O. Fortmeier, T. Henrich, H. M. Bücker*
- 09:35 – 10:00            Distributed vision graph update in mobile vision networks  
*M. Wittke, J. Hähner*
- 10:00 – 10:20**            **Break**
- Session 2: Operating Systems and Parallel Hardware (Session Chair: K. D. Reinartz)**
- 10:20 – 10:45            Routing based on evolved agents  
*P. Ediger, R. Hoffmann*
- 10:45 – 11:10            A block device driver for parallel and fault-tolerant storage  
*O.-J. Frahm, P. Sobe*
- 11:10 – 11:35            Concepts and experiments for optimizing wide input streaming CRC  
circuits  
*A. Döring*
- 11:35 – 12:00            Operating system processor scheduler design for future chip  
multiprocessor  
*T. C. Xu, A. W. Yin, P. Liljeberg, H. Tenhunen*
- 12:00 – 13:00**            **Lunch Break, including Poster Session 12:30 – 13:00**
- 13:00 – 14:00**            **Invited Talk: MPI for the Future?**  
*J. L. Träff*  
**Best Student Paper Award**

### **Session 3: Parallel Programming (Session Chair: P. Sobe)**

14:00 – 14:25 Evaluation and refinement of a tuning tool for grid applications  
*J. Keller, N. K. Nguyen, W. Schiffmann*

14:25 – 14:50 Platform-independent modelling of explicitly parallel programs  
*C. W. Kessler, W. Schamai, P. Fritzson*

**14:50 – 15:10 Coffee Break**

### **Session 4: Hybrid and Energy-efficient Computing (Session Chair: R. Hoffmann)**

15:10 – 15:35 Delivering guidance information in heterogeneous systems  
*F. Nowak, M. Kicherer, R. Buchty, W. Karl*

15:35 – 16:00 QPACE: energy-efficient high performance computing  
*S. Rinke, H. Böttiger, B. Krill*

16:00 – 16:25 High-level application design for hybrid computing systems  
*V. Hampel, E. Maehle*

**16:25 – 16:30 Closing Remarks**