10th Workshop on Parallel Systems and Algorithms PASA 2012

in conjunction with

International Conference on Architecture of Computing Systems (ARCS 2012)
Munich, Germany, February 28th to 29th, 2012

organized by
GI/ITG-Fachgruppe 'Parallel-Algorithmen, -Rechnerstrukturen und -Systemsoftware' (PARS) and GI-Fachgruppe 'Algorithmen' (ALGO)

The PASA workshop series has the goal to build a bridge between theory and practice in the area of parallel systems and algorithms. In this context practical problems which require theoretical investigations as well as the applicability of theoretical approaches and results to practice shall be discussed. An important aspect is communication and exchange of experience between various groups working in the area of parallel computing, e.g. in computer science, electrical engineering, physics or mathematics.

Topics of Interest include, but are not restricted to:

- parallel architectures & storage systems
- parallel embedded systems
- ubiquitous and pervasive systems
- reconfigurable parallel computing
- data stream-oriented computing
- interconnection networks
- network and grid computing
- distributed and parallel multimedia systems

- parallel and distributed algorithms
- models of parallel computation
- scheduling and load balancing
- parallel programming languages
- software engineering for parallel systems
- parallel design patterns
- performance evaluation of parallel systems

The workshop will comprise invited talks on current topics by leading experts in the field as well as submitted papers on original and previously unpublished research. Accepted papers will be published in the ARCS Workshop Proceedings as well as in the PARS Newsletter (ISSN 0177-0454). The conference languages are English (preferred) and German. Papers are required to be in English.

A prize of 500 € will be awarded to the best contribution presented personally based on a student's or Ph.D. thesis or project. Co-authors are allowed, the PhD degree should not have been awarded at the time of submission. Candidates apply for the prize by e-mail to the organizers when submitting the contribution. We expect that candidates are or become members of one the groups ALGO or PARS.

Important Dates
22nd November 2011 (extended): Deadline for submission of full papers of about 10 pages or extended abstracts of about 3 to 4 pages length (in English, using LNI style) under: *http://www.fernuni-hagen.de/pv/pars/2012/submission/*
6th December 2011: Notification of the authors
20th December 2011: Final version for workshop proceedings

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