



ARCS 2010



23RD INTERNATIONAL CONFERENCE ON ARCHITECTURE OF COMPUTING SYSTEMS

- HETEROGENEOUS SYSTEMS -

Hannover, Germany

February 22nd - 25th, 2010

<http://www.arcs2010.de>

CALL FOR PARTICIPATION

The ARCS series of conferences has over 30 years of tradition reporting top notch results in computer architecture and operating systems research. This year's focus will be on heterogeneous systems. Like the previous conferences in this series, it continues to be an important forum for computer architecture research. In 2010 ARCS will be hosted by the Leibniz University of Hannover.

This year, ARCS 2010 also features an invited talk by Karsten Schwan (Georgia Institute of Technology) on Hybrid Virtual Machines and the efficient use of future heterogeneous chip multiprocessors. A second invited talk will be announced shortly on the conference website. On the occasion of the 100th birthday of Konrad Zuse, there will be a special tutorial given by his son Prof. Dr.-Ing. Horst Zuse.

The ARCS 2010 technical program addresses the following topics and sessions:

- Energy-awareness, green computing.
- Computer architecture topics such as multi-cores, memory systems, and parallel computing.
- Adaptive system architectures such as reconfigurable systems in hardware and software.
- Operating Systems including but not limited to scheduling, memory management, power management, and RTOS.
- System aspects of ubiquitous and pervasive computing such as sensor nodes, novel input/output devices, novel computing platforms, architecture modeling, and middleware.
- Organic and Autonomic Computing including both theoretical and practical results on self-organization, self-configuration, self-optimization, self-healing, and self-protection techniques.
- Embedded systems including but not limited to architecture, communication, design methodologies, and applications.
- Network Centric and Grid Computing.

There will be six workshops and one tutorial collocated with ARCS 2010:

- PARS - 23rd PARS-Workshop on Parallel Systems and Algorithms
- CoSDEO - Workshop on Context-Systems Design, Evaluation and Optimisation (Papers and discussion - past and future)
- WUPS - Work shop on Ultra-Low Power Sensor Networks (WUPS)
- PARMA - Parallel Programming and Run-time Management Techniques for Many-core Architectures
- GI/ITG Workshop on Energy-aware Systems and Methods
- Organic Computing-Workshop
- Tutorial "An Introduction to Intel® Parallel studio" by Sergey Lounev

The detailed technical program is available on the website at <http://www.arcs2010.de/program.php>.

Important Dates

Registration Deadlines

Conference Authors: until December 20, 2010

Workshop Authors: until January 1, 2010

Early Registration Conference: until January 15, 2010

Early Registration Tutorial: until January 15, 2010

ARCS 2010 Conference **February 22-25, 2010**

A PDF version of the Call for Participation is available online at <http://www.arcs2010.de/cfparticipation.pdf>.