



ARCS 2009



22ND INTERNATIONAL CONFERENCE ON ARCHITECTURE OF COMPUTING SYSTEMS

- **SYSTEM ARCHITECTURE AND ENERGY AWARENESS** -

Delft, Netherlands

March 10th till 13th, 2009

<http://www.ida.ing.tu-bs.de/arcs09/>

CALL FOR PAPERS

Submission Deadline: October 10, 2008

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 is energy awareness viewed from two different points. Firstly, this deals with the improvement of computer systems to be as energy efficient as possible (particularly for specific applications). One can think of heterogeneous multi-core architectures or reconfigurable architectures for this purpose. Secondly, this addresses the usage of computer systems to reduce the energy consumption of other systems, which might lead to problems of communication and cooperation. Both aspects are relevant for the conference. Like the previous conferences in this series, it continues to be an important forum for computer architecture research. In 2009 ARCS will be hosted by the Delft University of Technology, which has one of the leading information technology schools in Europe. The proceedings of ARCS 2009 will be published in the Springer Lecture Notes on Computer Science (LNCS) series (pending). After the conference, authors of selected papers will be invited to submit an extended version of their contribution for publication in a special issue of the Journal of Systems Architecture. Also, a best paper and best presentation award will be presented at the conference.

Paper submission Authors are invited to submit original, unpublished research papers on one of the following topics:

- 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 issues with a focus on middleware.

Submissions should be done through the link provided at the conference website <http://www.ida.ing.tu-bs.de/noncms/arcs09/>. Papers should be submitted in pdf or postscript format. They should be formatted according to Springer LNCS style (see:

<http://www.springer.de/comp/lncs/authors.html>) and not exceed 12 pages.

Workshop and Tutorial Proposals: Proposals for workshops and tutorials within the technical scope of the conference are solicited. Submissions should be done through email directly to the workshops and tutorials chair Jörg Hähner (haehner@sra.uni-hannover.de).

Important Dates

Paper submission deadline:	10 th October 2008
Notification of acceptance:	28 th November 2008
Camera ready papers:	12 th December 2008

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