



ARCS 2008

ITG

21ST INTERNATIONAL CONFERENCE ON ARCHITECTURE OF COMPUTING SYSTEMS

- SYSTEM ARCHITECTURE AND ADAPTIVITY -

Dresden, Germany

February 25th to 28th, 2008

<http://arcs08.inf.tu-dresden.de/>

CALL FOR PAPERS

Extended Submission Deadline: October 1, 2007

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 special focus is set on adaptivity and adaptive system architectures. We intend to cover a wide spectrum reaching from pre-fabrication adaptation of architectural templates to dynamic run-time adaptation of deployed systems. Like the previous conferences in this series, it continues to be an important forum for computer architecture research.

In 2008, ARCS will be hosted by the Technische Universität Dresden, which has one of the leading IT schools in Europe. The proceedings of the ARCS 2008 will be published in the Springer series [Lecture Notes on Computer Science \(LNCS\)](#).

Paper submission Authors are invited to submit original, unpublished research papers on one of the following topics:

- Computer architecture topics such as CPU architectures, multi-cores, memory systems, and parallel computing.
- Adaptivity and 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, special purpose devices, architecture modelling, middleware, and localization technology.
- 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 made through the conference website <http://arcs08.inf.tu-dresden.de/>. Papers should be submitted in PDF 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 made through email directly to the workshops and tutorials chair (Andreas Koch, koch@esa.informatik.tu-darmstadt.de).

Important Dates

Paper submission deadline:	01 st October 2007
Notification of acceptance:	19 th November 2007
Camera-ready papers:	03 rd December 2007

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