

**Call for Papers  
ARCS 2007****20th International Conference on  
Architecture of Computing Systems  
System Aspects in Pervasive and Organic  
Computing****ETH Zurich, Switzerland, March 12-15, 2007  
<http://arcs07.ethz.ch>**

The ARCS series of conferences has over 30 years of tradition reporting top notch results in computer architecture and operating systems research. Following current trends ARCS has enhanced its focus on system aspects of pervasive computing and self organization techniques (organic and autonomic computing). At the same time it continues to be an important forum for computer architecture research.

In 2007 ARCS will be hosted by ETH Zurich, which has one of the leading information technology schools in Europe. The proceedings of ARCS 2007 will be published by Lecture Notes on Computer Science (LNCS). A special issue of the Personal and Ubiquitous Computing (PUC) Journal is envisioned to cover a selection of papers dealing with pervasive computing.

**Paper submission**

Authors are invited to submit original, unpublished research papers on one of the following topics:

1. System aspects of Ubiquitous and Pervasive Computing such as sensor nodes, communication issues, novel input/output devices, novel computing platforms, special purpose devices, new electronic packaging technologies, architecture modeling, middleware, and localization technology.
2. Organic and Autonomic Computing including both theoretical and practical results on self-organization, self-configuration, self-optimization, self-healing and self-protection techniques.
3. Network Centric and Grid Computing issues with a focus on Ad Hoc and P2P networking and middleware.
4. Operating Systems including but not limited to scheduling, memory management, power management and RTOS.
5. Computer architecture topics such as CPU architectures, multi-cores, memory systems, parallel computing, and reconfigurable systems.
6. Embedded systems including but not limited to architecture, communication, design methodologies and applications.

Submissions should be done through the link provided at the conference website <http://arcs07.ethz.ch>. Papers should be submitted in pdf or postscript format. They should be formatted according to Springer LNCS style and not exceed 14 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 ([platzner@upb.de](mailto:platzner@upb.de)).

**Important Dates**

Paper submission deadline:	1st October 2006
Proposals for workshops and tutorials:	1st October 2006
Notification of acceptance:	15th December 2006
Camera ready papers:	31st December 2006

**Organizing Committee**

General Chairs:	Gerhard Tröster, ETH Zurich, Switzerland Lothar Thiele, ETH Zurich, Switzerland
PC Chair:	Paul Lukowicz, University of Passau, Germany
Workshop and Tutorial Chair:	Marco Platzner, University of Paderborn, Germany



## Program Committee

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