ARCS 2011

24TH INTERNATIONAL CONFERENCE ON ARCHITECTURE OF COMPUTING SYSTEMS

THIS YEAR FOCUS: MANY-CORE ARCHITECTURES

Lake Como, Italy

February 22nd - 25th, 2011

http://conferences.dei.polimi.it/arcs2011/

CALL FOR PAPERS

Submission Deadline: ~~September 30, 2010~~ EXTENDED TO October 6th, 2010

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 many-core architectures. Like the previous conferences in this series, it continues to be an important forum for computer architecture research. In 2011 ARCS will be hosted by the Politecnico di Milano.

The proceedings of ARCS 2011 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Paper submission Authors are invited to submit original, unpublished research papers on one of the following topics:

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

Submissions should be done through the link that it will be provided at the conference website http://conferences.dei.polimi.it/arcs2011/. 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 co-chairs:

Wolfgang Karl, Karlsruhe Institute of Technology (KIT), DE <karl@kit.edu>
Dimitrios Soudris, National Technical University of Athens, GR <dsoudris@microlab.ntua.gr>

Important Dates

Paper submission deadline:	~~September 30, 2010~~ EXTENDED TO October 6th, 2010
Workshop and tutorial proposals:	October 15, 2010
Notification of acceptance:	November 20, 2010
Camera ready papers:	December 15, 2010

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