Call for Papers

The 2010 International Workshop on Multicore and Multithreaded Architectures and Algorithms (M2A2 2010)

May 21-23, 2010, Busan, Korea

http://cse.stfx.ca/~ica3pp2010/CFP-M2A2-10.pdf

In conjunction with

The 10th International Conference on Algorithms and Architectures for Parallel Processing (ICA3PP 2010)

http://cse.stfx.ca/~ica3pp2010/

Multicore systems are already dominating the processor market, and it is expected that the number of cores will continue increasing in most of the commercial systems, ranging from embedded to high-performance systems. This trend is driven by the need to increase the efficiency of the major system components: the cores, the memory hierarchy, and the interconnection network.

To take advantage of the increasing number of cores efficient load balancing and scheduling policies or strategies are required. In addition, it remains a challenge to identify and productively program applications for these systems with a resulting substantial performance improvement.

On the other hand, the system designer must trade off performance versus power consumption, which is a major concern in current microprocessors. Therefore current design must focus on new architectures or architectural mechanisms addressing this trade off.

Finally, most real-time embedded applications are requiring high-performance computing and multicore and multithreaded processors are becoming the typical design choice.

The aim of this workshop is to provide a forum for engineers and scientists to address the resulting challenge and to present new ideas, applications, and experience on all aspects of multicore and multithreaded systems.

Authors are invited to submit high quality papers representing their original work in (but not limited to) the following topics targeting muticore multithreaded processors:

- Multicore and multithreaded architectures
- Scheduling and load balancing
- Multicore programming
- Parallel algorithms
- Power-aware architectures and computing
- Embedded multicore real-time systems

Paper Submission and Publication

Submit original unpublished papers in PDF or Ms-Word formats at the workshop submission system: http://www.editorialsystem.net/M2A2-2010. All submitted manuscripts will be reviewed at least by three expert reviewers. Submissions will be judged on originality, technical strength, quality of presentation, and relevance to the workshop scope.

All accepted papers will be included in the ICA3PP-10 workshop proceeding published by LNCS, Springer. The length of the camera-ready manuscripts will be limited to 10 pages; max 2 extra pages are allowed at additional cost. Helpful information for paper formatting can be found in the website. Moreover, after author's notification, the Online Author Kit will be given on this website. Please format your camera-ready version according to this kit finally. Authors of accepted papers, or at least one of them, are requested to register and present their work at the conference, otherwise their papers will not be published.

Distinguished papers accepted and presented in M2A2 2010, after further revisions, could be considered for publication in special issues of SCI international journals.

Important Dates

Paper Submission Deadline: February 2, 2010
Acceptance Notification: February 22, 2010
Camera Ready Due: February 28, 2010
Conference Dates: May 21, 2010

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