

# CALL FOR PAPERS

## Special Session on Simulation and Modeling of Parallel Systems (SMPS'2008)

As part of the 2008 International Conference on High Performance Computing & Simulation  
(HPCS 2008)  
and in conjunction with the 22nd European Conference on Modeling and Simulation  
(ECMS 2008)

Nicosia, Cyprus  
June 3 - 6, 2008

Submission Deadline: March 15, 2008

### Purpose and Topics

Large parallel systems have become the mainstream of both commercial and scientific computing. Shared-memory systems with hundreds of processors are commercially available, while a new generation of massively parallel systems have pushed the limits of scalability to unprecedented levels. Designing and understanding these systems requires new simulation and modeling approaches that can be effective at those scales. New software- and hardware-based simulation techniques have been developed to cope with those challenges.

The goal of this session is to promote the discussion and presentation of new research and development in the area of simulation and modeling of large parallel systems. We encourage original contributions from work on the following areas (this list is not meant to be restrictive):

- \* Parallel simulators
- \* Hardware accelerators for simulating parallel systems
- \* Bootstrapping: Using a current generation system to design the next generation
- \* Modeling and simulation at the data center level
- \* Use of reconfigurable logic for simulation of parallel systems
- \* Machine learning for developing models of parallel systems
- \* New and novel approaches to modeling and simulation of large systems

### Paper Submission:

You are invited to submit original and unpublished research works on above and other topics related to simulation and modeling of parallel systems. Please submit a PDF copy of your full manuscript, not to exceed 7 double-column IEEE formatted pages, and include up to 6 keywords and an abstract of no more than 350 words. Each paper will receive a minimum of three reviews.

At least one of the authors of each accepted paper will have to register and attend the HPCS'08 conference for presenting the paper at the session. Accepted papers will be published by ECMS in the conference proceedings. Papers should be submitted as attachments to: [jmoreira@us.ibm.com](mailto:jmoreira@us.ibm.com). If accepted, final papers will follow the format that ECMS follows which will be posted on the web site.

If you have any questions about paper submission or the session, please contact the session organizer.

### **Important Dates:**

- \* **Full Paper Submission Deadline:** ----- **March 15, 2008**
- \* **Notification of Acceptance:** ----- **March 31, 2008**
- \* **Camera-Ready papers Due:** ----- **April 17, 2008**

### **Session Organizer:**

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### **Technical Program Committee:**

All submitted papers will be rigorously reviewed by the session technical program committee members.

- \* Dr. Valentina Salapura, IBM, USA
- \* Prof. Gianfranco Bilardi, University of Padova, Italy
- \* Prof. Emilio Luque, Universitat Autònoma de Barcelona, Spain
- \* Prof. Luis Ceze, University of Washington, USA
- \* Dr. Karin Strauss, AMD, USA
- \* Mr. Jose Brunheroro, IBM, USA

If you have any questions about conference paper submission, please contact conference Program Chair: Waleed W. Smari, Dept. of Electrical and Computer Engineering, University of Dayton, 300 College Park, Dayton, OH 45469-0226, USA, Voice: (937) 229-2795, Fax: (937) 229-4529, Email: [Waleed.Smari@notes.udayton.edu](mailto:Waleed.Smari@notes.udayton.edu). For information about the HPCS conference in general, please contact the General Chairs or consult the conference web site at <http://cisedu.us/cis/hpcs/08/>.

The Multi Conference web site is at <http://www.scs-europe.net/conf/ecms2008/>.