

First International Workshop on Simulation and Modelling in Emergent Computational Systems (SMECS-2008)

September 8-12, 2008, Portland, Oregon, USA

**To be held in conjunction with:
THE 2008 INTERNATIONAL CONFERENCE
ON PARALLEL PROCESSING (ICPP-08)**

Scope

With the fast development of Internet and other new technologies, different types of networks, paradigms and platforms of distributed computation are emerging as new forms of the computation in the new millennium. Among these paradigms and technologies, Grid, P2P and networks ad-hoc systems are among most important. One of the main targets behind these technologies and paradigms is, from the scientific perspective, to enable the solution of very complex problems of the denominated family of eScience problems that arise in different branches of science, engineering and the industry. An important line of research in this context is the simulation and modeling. Simulation is an essential tool in these new computational systems in order to implement and evaluate different algorithms, resolution techniques and applications before deployment in a real system. Simulation and modelling allow thus to conceive, develop and analyze in a controlled and economic way application prototypes that can be later deployed in real environments.

The aim of this workshop is to present innovative researches, methods and techniques related to Simulation, Modelling and Performance Evaluation in Emergent Computational Systems. The workshop seeks original contributions in all relevant areas, including but not limited to the following topics.

Topics of interest

- **Simulation models and tools for Grid, P2P systems**
- **Simulation and tools for Adhoc and Mobile Network systems**
- **Performance modelling and evaluation in Emergent Computational Systems**
- **Novel theoretical approaches for simulation and modelling in Emergent Computational Systems**
- **Novel design approaches for simulation and modelling in Emergent Computational Systems**
- **Benchmarking**

- **Case studies using simulation platforms/libraries for evaluating applications in Emergent Computational Systems**

Important Dates

- Submission Deadline: **April 20, 2008**
- Author Notification: May 15, 2008
- Proceedings Version: June 30, 2008
- Workshop Dates: September 10-12, 2008

Submission Guidelines

Authors are invited to submit research and application papers following the IEEE Computer Society Proceedings Manuscripts style: two columns, single-spaced, including figures and references, using 10 fonts, and number each page. You can confirm the IEEE Computer Society Proceedings Author Guidelines at one of the following web pages:

- <http://computer.org/cspress/instruct.htm>
- or
<http://www.tinmith.net/tabletop2006/IEEE/Format/instruct.htm>

The papers should be 6 pages long. They will be carefully evaluated based on originality, significance, technical soundness, and clarity of exposition. The papers should be submitted electronically via ICPP-08 website. If there is any problem during submission please contact the Workshop Co-Chairs. Accepted papers will be given guidelines in preparing and submitting the final manuscript(s) together with the notification of acceptance.

Proceedings of the Workshops will be published by IEEE Computer Society Press. Based on quality and referee reviews, the best papers selected by SMECS-2008 program committee out of papers accepted for presentation at SMECS-2008 will be further published in some International Journal.

Workshop Co-Chairs

Fatos Xhafa, Polytechnic University of Catalonia, Spain
Leonard Barolli, Fukuoka Institute of Technology, Japan
Arjan Duresi, Purdue University School of Science, USA

PC Members

TBD

For any further questions or inquiries please contact Workshop Organizers:

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