

CALL FOR PARTICIPATION

Workshop on Optimization Issues in Grid and Parallel Computing Environments

As part of The 2008 International Conference on High Performance Computing & Simulation (HPCS'08) and in conjunction with The 22nd European Conference on Modelling and Simulation (ECMS 2008)

Nicosia, Cyprus
June 3 - 6, 2008

(Submission Deadline: March 5, 2008)

Brief Description:

Grid and parallel computing face different challenges based on the security and reliability of such environments. These include issues such as the certification of results, the multi-objective optimization of environment parameters and protocols, the robustness of the underlying middleware, etc. New generations of mobile grids based on context-aware services bring yet another dimension of complexity.

The goal of this workshop is to bring together those interested in addressing issues of concern and challenges related to optimization, computational sciences, and high performance computing and how recent technologies might help solve these problems.

Workshop Topics (but is not limited to):

The workshop is intended to address recent advances in new generations of algorithms, protocols and middleware for grids/parallel computing environments that may include:

- Fault Tolerant Algorithms
- Deterministic and Probabilistic Certification of Results
- Static and Dynamic Robust Scheduling of Tasks
- Meta-Optimization of Protocol/Algorithm Parameters for Given Environments/Mobility Models
- Multi-Objective Optimization (e.g. Time, Money, Use of Resources, Level of Result Guarantee, etc) of Algorithms/Middleware
- Self-Adapting and/or Self-Configuring Algorithms (in Mobile Grids)
- Validation and Testing of Algorithms/Protocols for Grids

Paper Submissions:

Submitted papers must not have been published or simultaneously submitted elsewhere. Submission should include a cover page with authors' names, affiliation addresses, fax numbers, phone numbers, and email addresses. Please, indicate clearly the corresponding author and include up to 6 keywords from the above list and an abstract of no more than 350 words. The full manuscript should be at most 7 pages using the two-column IEEE format. Additional pages will be charged additional fee. Please include page numbers on all submissions to make it easier for reviewers to provide helpful comments. All submissions should be appropriately anonymized (i.e., papers should not contain author names, affiliations, or obvious citations). Please submit a PDF copy of your full manuscript as attachment via the email Pascal.Bouvry@uni.lu. Your submission will be acknowledged within 48 hours.

Only PDF files will be accepted. Each paper will receive a minimum of three reviews. Authors of accepted papers must guarantee that their papers will be presented at the workshop. Accepted papers will be published by ECMS in the conference proceedings which will be available at the time of the meeting.

If you have any questions about paper submission or the workshop, please contact the organizers.

Important Dates:

Paper Submissions: -----	March 5, 2008
Acceptance Notification: -----	March 20, 2008
Camera Ready Papers and Registration Due: -----	April 17, 2008

Workshop Organizers:

Prof. Pascal Bouvry

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Workshop Program Committee:

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

Workshop Program Chair: **Prof. Pascal Bouvry**

Workshop International Program Committee:

- Enrique Alba, University of Malaga, Spain
- Farhad Arbab, CWI, Amsterdam, The Netherlands
- Girma Berhe, University of Luxembourg, Luxembourg
- Jacek Błazewicz, Technical University of Poznań, Poland
- Azzedine Boukerche, University of Ottawa, Canada
- Pascal Bouvry, University of Luxembourg, Luxembourg
- Serge Chaumette, University of Bordeaux, France
- Bernabé Dorronsoro, University of Luxembourg, Luxembourg
- Frédéric Guinand, University of Le Havre, France
- Luc Hogie, INRIA Sophia-Antipolis, France
- Djamel Khadraoui, CRP-Tudor, Luxembourg
- Ricky Kwok, Colorado State University, Fort Collins, USA
- Kittichai Lavangnananda, KMUTT, School of Information Technology, Bangkok, Thailand
- An Le Thi Hoai, University of Metz, France
- Anthony A. Maciejewski, Colorado State University, Fort Collins, USA
- Carlos H.C. Ribeiro, Instituto Tecnológico de Aeronáutica, São José dos Campos – SP, Brazil
- Jean-Louis Roch, INRIA Rhône-Alpes, France
- Steffen Rothkugel, University of Luxembourg, Luxembourg
- Franciszek Seredynski, Polish Academy of Sciences, Warsaw, Poland
- H.J. Siegel, Colorado State University, Fort Collins, USA
- Peter Sturm, University of Trier, Germany
- Michel Syska, I3S, University of Nice Sophia Antipolis, CNRS and INRIA, France
- El-Ghazali Talbi, INRIA-Futurs, Lille, France
- Sébastien Varrette, University of Luxembourg, Luxembourg
- Nikos Vlassis, Technical University of Crete, Greece
- Albert Y. Zomaya, University of Sydney, Australia

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 or consult the conference web site at <http://cisedu.us/cis/hpcs/08/>.

For information about the ECMS conference in general, please contact the General Conference Chairs: Loucas S. Louca (University of Cyprus, Nicosia, Cyprus, email: lslouca@ucy.ac.cy) and Khalid Al-Begain (University of Glamorgan, Pontypridd, Wales, UK, email: kbegain@glam.ac.uk). The Multi Conference web site is at <http://www.scs-europe.net/conf/ecms2008/>.