

Workshop on Exploitation of Hardware Accelerators (WEHA 2011)

CALL FOR PAPERS

As part of
The International Conference on High Performance Computing & Simulation (HPCS 2011)
<http://hpcs11.cisedu.info/>

In conjunction with
The 7th International Wireless Communications and Mobile Computing Conference (IWCMC 2011)

July 4 – July 8, 2011
Istanbul, Turkey

Submission Deadline: January 11, 2011

SCOPE AND OBJECTIVES

The importance of hardware accelerators (GPUs, Cell, FPGAs, ...) is increasing rapidly, especially in the computationally demanding disciplines such as realistic 3D computer graphics and high-performance scientific computing. The use of these accelerators for General-Purpose computation achieves speedups of orders of magnitude vs. optimized CPU implementations. They have become powerful, capable, and inexpensive coprocessors useful for a wide variety of computation.

The aim of this workshop is to strongly encourage the exchange of experiences and knowledge in novel solutions exploiting and defining new trends in hardware accelerators, including hardware architecture, software tools, and applications.

The authors of the papers selected for the workshop will be invited to submit extended versions of their manuscripts to be considered for publication in a special issue of the *Microprocessors and Microsystems Journal*.

The Workshop topics include (but are not limited to) the following:

- Languages and Compilers for Hardware Accelerators
- Libraries and Tools to Simplify the Programming of Hardware Accelerators
- Manual and Automatic Optimization Techniques
- Application Development Experience
- Benchmarking of Hardware Accelerators
- Modeling and Performance Prediction for Hardware Accelerators
- Novel Accelerator Architectures

PAPER SUBMISSIONS

You are invited to submit original and unpublished research works on above and other topics related to exploitation of hardware accelerators. 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 and an abstract of no more than 450 words. The full manuscript should be at most 7 pages using the two-column IEEE format. Additional pages will be charged at additional fee. Please include page numbers on all submissions to make it easier for reviewers to provide helpful comments. Submit a PDF copy of your full manuscript via email to the Workshop organizers at margamor@udc.es. Acknowledgement will be sent within 48 hours of submission.

Only PDF files will be accepted. Each paper will receive a minimum of three reviews. Papers will be selected based on their originality, relevance, technical clarity and presentation.

Submission of a paper implies that should the paper be accepted, at least one of the authors will register for the HPCS conference and present the paper in the workshop. Accepted papers will be given guidelines in preparing and submitting the final manuscript(s) together with the notification of acceptance.

IMPORTANT DATES

Paper Submissions: ----- **January 11, 2011**
Acceptance Notification: ----- **March 14, 2011**
Camera Ready Papers and Registration Due: ----- **April 14, 2011**
Conference Dates: ----- **July 4 – 8, 2011**

WORKSHOP ORGANIZERS

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International Program Committee:

All submitted papers will be reviewed by the workshop technical program committee members following similar criteria used in HPCS.

- **Montserrat Bóo**, Universidade de Santiago de Compostela, Spain
- **Michael Doggett**, Lund University, Sweden
- **Franz Franchetti**, Carnegie Mellon University, USA
- **María J. Garzarán**, University of Illinois at Urbana-Champaign, USA
- **José R. Herrero**, Universitat Politècnica de Catalunya, Spain
- **Oscar Plata**, Universidad de Málaga, Spain
- **Enrique S. Quintana Ortí**, Universidad Jaime I, Spain
- **Bruno Raffin**, INRIA - Laboratoire Informatique de Grenoble, France
- **Leonel Sousa**, Universidade Técnica de Lisboa, Portugal

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

If you have any questions about the HPCS 2011 conference paper submission, please contact Conference Program Chair: **Waleed W. Smari**, Voice: +1 (937) 681-0098, Email: smari@arys.org or consult the conference web site at <http://hpcs11.cisedu.info/>.