CALL FOR PAPERS

6th Int. Workshop on Multi-/many-Core Computing Systems (MuCoCoS-2013)

September 7, 2013, Edinburgh, Scotland, UK

**in conjunction with the 22nd International Conference on
Parallel Architectures and Compilation Techniques (PACT-2013)**

http://www.ida.liu.se/conferences/mucocos2013

The pervasiveness of homogeneous and heterogeneous multi-core and many-core processors, in a large spectrum of systems from embedded and general-purpose to high-end computing systems, poses major challenges to software industry. In general, there is no guarantee that software developed for a particular architecture will be executable (that is functional) on another architecture. Furthermore, ensuring that the software preserves some aspects of performance behavior (such as temporal or energy efficiency) across different such architectures is an open research issue.

Therefore, this workshop focuses on language level, system software and architectural solutions for performance portability across different architectures and for automated performance tuning.

The topics of the MuCoCoS workshop include but are not limited to:

- Performance measurement, modeling, analysis and tuning
- Portable programming models, languages and compilation techniques
- Run-time systems and hardware support mechanisms for auto-tuning
- Tunable algorithms and data structures
- Case studies highlighting performance portability and tuning.

As the sixth workshop in the series MuCoCoS 2008 (Barcelona, Spain), MuCoCoS 2009 (Fukuoka, Japan), MuCoCoS 2010 (Krakow, Poland), MuCoCoS 2011 (Seoul, Korea), and MuCoCoS 2012 (Salt Lake City, USA), MuCoCoS 2013 will be held in Edinburgh, UK, in conjunction with the *22nd International Conference on Parallel Architectures and Compilation Techniques (PACT 2013)*.

SUBMISSION GUIDELINES

The papers should be prepared using the IEEE format (two-column, 10pt, LaTeX users please use style IEEEtran.cls), and no longer than 10 pages. Submitted papers will be carefully evaluated based on originality, significance to workshop topics, technical soundness, and presentation quality.

Please submit your paper (as PDF, viewable by Adobe Reader v5.0 or higher, with all fonts embedded please) electronically using the online submission system, www.easychair.org/account/?conf=mucocos2013

Submission of the paper implies that should the paper be accepted, at least one of the authors will register and present the paper at the workshop.

Accepted papers will be submitted to IEEE Xplore (confirmation pending). They will also be included in the PACT USB proceedings. We also plan to invite authors of the best MuCoCoS papers after the workshop to submit their extended workshop papers to a special issue of Computing Journal (©Springer) that will be developed for this workshop (confirmation pending).

IMPORTANT DATES

Submission: **May 27, 2013** (firm deadline)
Notification: **June 23, 2013**
Camera-ready: **July 7, 2013**

WORKSHOP CO-CHAIRS

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  Linköping University, Sweden, chair.

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