



**THE 3RD INTERNATIONAL WORKSHOP ON
EMBEDDED MULTI-CORE COMPUTING AND
APPLICATIONS (EMCA 2013)**

Zhangjiajie, China, November 13-15, 2013

**The 3rd International Workshop on Embedded Multi-core Computing and
Applications (EMCA 2013)**

<http://emca2013.cs.pu.edu.tw/>

In the past few years, multi-core systems have been utilized to accelerate the research domains including: image processing, molecular dynamics, astrophysics, financial simulation, computer tomography, quantum chemistry, bioinformatics and many others. Especially, General Purpose Graphic Process Units (GPGPUs) becomes popular to lot of scientific computing domains. Leveraging computing power of GPGPUs, the computational cost of many applications is able to significantly be decreased. In many of these applications, a speedup of 20-100X has been realized.

The goal of this workshop is to provide a forum for researchers and practitioners to discuss and share their research and development experiences and outputs on the massively parallel GPU platforms, multi-core system, optimization techniques, parallel algorithm design, applications, bioinformatics and all kinds of successful applications.

EMCA seeks original contributions in all relevant areas, including but not limited to the following topics:

- Performance Modeling and Benchmarking
- Middleware and Libraries
- GPU Programming and Applications
- Multi-core Computing and Applications
- Parallel Algorithm on Multi-core Systems
- GPU Cloud
- Multi-core System Cloud

We invite you to submit papers with unpublished, original research describing recent advances on the areas related to this workshop. All papers will undergo peer review by the conference program committee. All papers accepted will be included in the Workshop Proceedings published by the IEEE Computer Society Press (EI indexed) and will be available at the workshops. Authors of selected papers will be invited to extend their papers for submission to special issues in prestigious Journals.

Paper submission:

All papers need to be submitted electronically through the conference website (<https://www.easychair.org/account/signin.cgi?conf=emca2013>) with PDF format. The materials presented in the papers should not be published or under submission elsewhere. Each paper is limited to 6 pages (or 10 pages with the over length charge), including figures and references using IEEE Computer Society Proceedings Manuscripts style (two columns, single-spaced, 10 fonts). You can confirm the IEEE Computer Society Proceedings Author Guidelines at the following web page: <http://www.computer.org/portal/web/cscps/formatting>. Please submit your paper through for EMCA 2013.

Paper submission Site:

<https://www.easychair.org/account/signin.cgi?conf=emca2013>

Important Date:

~~15 June, 2013~~ **Extend 10 July, 2013:** Due date for full workshop papers submission (at least two reviews for each paper)

15 August, 2013: Notification of paper acceptance to authors

15 September, 2013: Camera-ready of accepted papers

Publication:

Papers accepted for this workshop will be published by the IEEE Computer Society and distributed to the participants. Distinguished papers, after further revisions, will be published in 10 SCI & EI indexed special issues, which will be shared by the IEEE HPCC 2013 conference and its symposiums and workshops. The special issues are listed in blow URL:

http://trust.csu.edu.cn/conference/hpcc2013/Proceedings_&_Special_Issues.htm

Workshop chairs:

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