
CALL FOR PAPERS

FGC 2010 - The First International Workshop on Frontier of GPU Computing

To be held in conjunction with [CIT 2010](#)

Bradford, UK, 29 June – 01 July, 2010

<http://www.comp.hkbu.edu.hk/~chxw/fgc2010/index.php>

Journal Special Issues

Distinguished selected papers accepted and presented in FGC 2010, after further extension and revisions, will be published in special issues of the following prestigious SCI-Indexed Journals:

- **Journal of Supercomputing** – Springer
- **Journal of Computer and System Sciences** – Elsevier
- **Concurrency and Computation: Practice and Experience** - John Wiley & Sons

Scope

We are undergoing a new revolution on parallel processor technologies, especially the Graphic Processing Units. GPUs have become widely used nowadays to accelerate a broad range of applications, including computational finance, numerical computing, image/video processing, engineering simulations, quantum chemistry, just to name a few.

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, software development tools, optimization techniques, parallel algorithm design, and all kinds of successful applications. We solicit original and previously unpublished papers addressing research challenges and advances towards the design, implementation and evaluation of massively parallel GPU computing. Topics of interest include, but are not limited to:

- Applications on GPU Computing
- Performance Modeling and Benchmarking
- Processor Architectures
- Programming Languages and Compilers
- Middleware and Libraries
- GPU Clusters
- Self-configuration and Fault-tolerance

Paper Submission

Authors are invited to submit manuscripts reporting original unpublished research and recent developments in the topics related to the workshop. The length of the papers should not exceed 6 pages + 2 pages for overlength charges (IEEE Computer Society Proceedings Manuscripts style: two columns, single-spaced), including figures and references, using 10 fonts, and number each page. All papers will be peer reviewed and the comments will be provided to the authors. The accepted papers will be published together with those of other workshops by the IEEE Computer Society Press.

To submit your paper, please access [EasyChair](#). If you do not have an EasyChair account, please obtain one from [here](#).

Important Dates

- Submission Deadline: 26 February, 2010 (Extended to 12 March 2010)
- Author Notification: 26 March, 2010 (Extended to 05 April 2010)
- Final Manuscript Due: 18 April, 2010 (Extended to 30 April 2010)
- Registration Due: 18 April, 2010 (Extended to 05 May 2010)
- Conference Date: 29 June - 01 July, 2010

Organization:

Workshop Co-chairs:

[Xiaowen Chu](#), Hong Kong Baptist University, Hong Kong, China

[Yangdong Deng](#), Tsinghua University, Beijing, China

[Wei Ge](#), Chinese Academy of Science, Beijing, China

Program Committee:

(to be updated)

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Youquan Liu, Chang'an University, China
Qiong Luo, Hong Kong University of Science and Technology, Hong Kong
John Michalakes, National Center for Atmospheric Research, USA
Hanspeter Pfister, Harvard University, USA
P. Sadayappan, Ohio State University, USA
Rainer Spurzem, Chinese Academy of Sciences, China, and Zentrum für Astronomie
Univ. Heidelberg, Germany
Robert Strzodka, Max Planck Institut Informatik, Germany