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Future Generation Computer Systems

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Special Issue on Hybrid Information Technologies in High Performance and Cloud Computing

Scope:

Recently the widespread use of Grid and Cloud computing technologies for future generation computer systems is demonstrated by the huge amount of projects served by various hybrid information technologies. The hybrid information technology computing often requires the availability of a massive number of computers for performing large scale experiments. Traditionally, these needs have been addressed by using high-performance computing and cloud computing solutions with clusters and super computers. In the future generation computing world, hybrid information technologies will play a very important role in convergence of high performance, cloud computing, communication, and all other computational sciences and application.

In this special issue, we solicit original work in all areas of **Hybrid Information Technologies in High Performance and Cloud Computing**. In particular, we seek original work on identifying new research and development challenges, developing new techniques and advanced information technology solutions in Hybrid Information Technologies in High Performance and Cloud Computing for future computing systems, innovative information and communication technologies and applications. Specific topics include, but not limited to, the following:

- Hybrid Information Technology Application and Service
- Advanced Data Mining and Pattern Recognition
- Pervasive E-Science and Web Intelligence
- Theories and Algorithms for Hybrid Information Technology
- High Performance Cloud Computing design
- High Performance Cloud Computing data centers
- Hardware and Software Cross Layer Design
- Bio-inspired Health and Medical Informatics
- High Performance Cloud Computing Experience and case studies
- High Performance Cloud and Grid Computing
- Hierarchical and Adaptive Learning Systems
- High Performance Data Warehousing
- High Performance Cloud communications and networks
- High Performance Cloud Power management
- Multi-Scale Modeling and Simulation
- Ubiquitous Computing and High Performance Embedded Systems
- High Performance Cloud Virtual resources management
- Others and emerging new topics

Submission Details:

Original, high quality contributions that are not yet published or that are not currently under review by other journals or peer-reviewed conferences are sought. All papers should be submitted through the Future Generation Computer Systems journal's manuscript central website: <http://ees.elsevier.com/fgcs/default.asp?pg=login.asp>.

A guide for authors for preparing their papers is available at http://www.elsevier.com/wps/find/journaldescription.cws_home/505611/authorinstructions. Please choose the Article Type "HP&C Computing".

Important Dates:

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Final papers: Feb 1, 2012

Tentative Publication Schedule: 3/4 Quarter, 2013

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