

# CALL FOR PAPERS

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## The Journal of Supercomputing

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### Special Issue on " Theory and Practice of High Performance Computing, Communications, and Security"

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With the rapid growth in computing and communications technology, the past decade has witnessed a proliferation of powerful parallel and distributed systems and an ever increasing demand for practice of high performance computing, communications, and security (HPCCS). HPCC has moved into the mainstream of computing and has become a key technology in determining future research and development activities in many academic and industrial branches, especially when the solution of large and complex problems must cope with very tight timing schedules.

This special issue aims to foster the dissemination of high quality research in any new HPCCS idea, method, theory, technique, and application. The objective of this special issue is to showcase the most recent developments and research in the HPCCS field, as well as to enhance its state-of-the-art. Original research articles are solicited in all aspects of HPCCS including theoretical studies, practical applications, new communication technology, and experimental prototypes for HPCCS.

Topics include, but not limited to:

- Parallel and distributed system architectures for HPCCS
- Parallel and distributed software technologies for HPCCS
- Parallel and distributed algorithms for HPCCS
- Peer-to-peer computing for HPCCS
- Grid and cluster computing for HPCCS
- Performance evaluation and measurement for HPCCS
- Distributed systems and applications for HPCCS
- High-performance scientific and engineering computing for HPCCS
- Database applications and data mining for HPCCS
- Collaborative and cooperative environments for HPCCS
- Mobile computing and wireless communications for HPCCS
- Pervasive/ubiquitous computing and intelligence for HPCCS
- Autonomic, reliability and fault-tolerance for HPCCS
- Trust, security and privacy for HPCCS
- Information security and assurance for HPCCS
- New idea suggestions and prototype implementations in HPCCS

### Submission Guidelines

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. Paper submissions must follow the instructions described in the Journal of Supercomputing Web site at <http://www.editorialmanager.com/supe/>

Authors whose papers have been accepted and presented at the Eleventh IEEE International Conference on High Performance Computing and Communications, HPCC-09 (<http://www.sersc.org/HPCC2009>), and the Third International Conference on Information Security and Assurance, ISA-09 (<http://www.sersc.org/ISA2009/>), including related symposium and workshop papers, are also invited to submit an extended and revised version of their papers to this special issue. Submitted papers must have at least 30% difference from the conference paper.

### Important Dates

- Deadline for submissions: Aug. 31, 2009
- Notification of acceptance: Nov. 30, 2009
- Final versions due: Dec. 31, 2009
- Publication dates: Summer 2010 (Tentative)

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