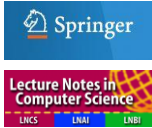


The 12th International Conference on Algorithms and Architectures for Parallel Processing (ICA3PP-12)



<http://anss.org.au/ica3pp12/>

Technically Sponsored by IEEE Technical Committee on Scalable Computing
Fukuoka, Japan, September 04-07, 2012
Hosted by Kyushu Sangyo University, Fukuoka, Japan
Co-located with ATC- 2012, UIC-2012



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Please see ICA3PP-12 website at
<http://anss.org.au/ica3pp12/>

General Information

ICA3PP-12 is the 12th in this series of conferences started in 1995 that are devoted to algorithms and architectures for parallel processing. ICA3PP is now recognized as the main regular event of the world that covers the many dimensions of parallel algorithms and architectures, encompassing fundamental theoretical approaches, practical experimental projects, and commercial components and systems. As applications of computing systems have permeated in every aspects of daily life, the power of computing system has become increasingly critical. This conference provides a forum for academics and practitioners from countries around the world to exchange ideas for improving the efficiency, performance, reliability, security and interoperability of computing systems and applications.

ICA3PP-12 will be run in technical co-sponsorship (pending) with the IEEE and the IEEE Computer Society Technical Committee on Scalable Computing. ICA3PP-2012 will be co-located with UIC-2012 and ATC-2012 conferences.

Important Dates

Workshop Proposals deadline: Ongoing as received

Paper Submission Deadline: May 15, 2012 (11:59 PM GMT-11, firm deadline)

Authors Notification: June 15, 2012

Final Manuscript Due: June 28, 2012

Topics

- Cluster, Distributed & Parallel Operating Systems and Middleware
- Cloud, Grid, and Services Computing
- Reliability and Fault-tolerant Computing
- Multi-core Programming and Software Tools
- Distributed Scheduling and Load Balancing
- High-performance Scientific Computing
- Parallel Algorithms
- Parallel Architectures
- Parallel and Distributed Databases
- Parallel I/O Systems and Storage Systems
- Parallel Programming Paradigms
- Performance of Parallel & Distributed Computing Systems
- Resource Management and Scheduling
- Tools and Environments for Parallel & Distributed Software Development
- Software and Hardware Reliability, Testing, Verification and Validation
- Security, Privacy, and Trusted Computing
- Self-healing, Self-protecting and Fault-tolerant Systems
- Information Security In Internet
- Multimedia in Parallel Computing
- Parallel Computing in Bioinformatics
- Dependability Issues in Computer Networks and Communications
- Dependability Issues in Distributed and Parallel Systems
- Dependability Issues in Embedded Parallel Systems
- Industrial Applications
- Scientific Applications

Submission Guidelines

Submitted papers must not substantially overlap with papers that have been published or that are simultaneously submitted to a journal or a conference with proceedings. Papers must be clearly presented in English, must not exceed 15 pages in LNCS format, including tables, figures, references and appendixes, with Portable Document Format (.pdf). Papers will be selected based on their originality, significance, relevance, and clarity of presentation assessed by at least three reviewers. Submission of a paper should be regarded as a commitment that, should the paper be accepted, at least one of the authors will register and attend the conference to present the work.

The publication will be **Springer Lecture Notes in Computer Science (EI indexed)**. Best Paper Awards will be presented to high quality papers. Selected best papers will be published in some high quality international journals: *Concurrency and Computation: Practice and Experience* (Wiley) and *Future Generation Computer Systems* (Elsevier), all SCI and EI indexed.