

Concurrency and Computation: Practice & Experience

Special Issue on **Advances in Parallel, Distributed, Embedded, and Ubiquitous Systems**

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Call for Papers

Computing systems are now invading in every aspect of our daily life and promise to revolutionize our life. The emergence of the related technology is a natural outcome of research and technological advances in a variety of areas including parallel computing, distributed computing, embedded systems, pervasive computing and communications, wireless networks, mobile computing, and agent technologies. These new and exciting paradigms provide computing and communication services to the end users all the time and everywhere. This special issue will present the recent advances in the new generation computing systems such as parallel, distributed, embedded, and ubiquitous systems.

Topics

This special issue will cover four broad areas: parallel computing, distributed computing, embedded computing, and ubiquitous computing. Any topics under these areas are solicited. These areas cover the following specific 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
- 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
- Embedded System Software and Optimization
- Embedded System Architectures
- Hardware/Software Co-design and Design Automation

- Real-Time Systems and Operating Systems
- Application-Specific Processors and Devices
- Power-Aware Computing
- Sensor Networks
- System/Network-on-Chip
- Reconfigurable Computing Systems and Applications
- Cyber-Physical Systems
- Pervasive Computing and Communications
- Middleware and Peer-to-Peer Computing
- Internet Computing and Applications
- Multimedia and Data Management
- Human-Computer Interaction
- Network Protocols
- Wireless Communication & Networks
- Mobile Computing
- Agents and Distributed Computing
- Security and Fault Tolerance Applications

Guest Editors

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Important Dates

Paper submission: December 15, 2011

First round notification: March 31, 2012

Final papers: May 31, 2012

Publication: 2012

Submission Guideline

Papers must be clearly presented in English. The paper should be formatted according to the “Instructions to Authors” in CPE website and submitted to Manuscript Central through

<http://mc.manuscriptcentral.com/cpe>. **Enter the “Running Head” as ICA3PP11 special issue.**

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 are invited reporting original results and experience. The selection will be based on their originality, timeliness, significance, relevance, and clarity of presentation.