The 11th IEEE International Conference on Scalable Computing and Communications

SCALCOM 2011

31st August-2nd September 2011, Coral Beach Hotel, Pafos Cyprus

http://www.cs.ucy.ac.cy/SCALCOM2011/

Preliminary Call for Papers

Scalability is a primary consideration in the design and implementation of computing and communication systems. The rapid increases in the volume of information that needs to be processed by computers necessitates new architectures, software, algorithms, and tools to improve scalability.

ScalCom-11 aims at providing an international forum for researchers and practitioners to discuss original ideas on all aspects of scalability in computing. ScalCom-11 is soliciting original, previously unpublished work addressing research challenges and presenting advances in the design and implementation of scalable computing and communication systems.

The conference solicits papers broadly categorized in two tracks, Distributed Computing Systems and Parallel Computing Systems. Topics of interest include but are not limited to:

Distributed Computing Systems
- Distributed computing paradigms (cloud, grid, P2P, and utility computing)
- Data management and data centers
- Sensor networks and applications
- Wireless and mobile computing
- Internet-based computing, protocols, and applications
- Security and privacy issues in distributed computing
- Fault tolerance, reliability, and availability
- Algorithms
- System software (programming environments, OS, middleware)
- Applications and tools

Scalable Parallel Computing
- Multi-core architectures
- Graphics processors and accelerators
- Interconnection networks
- Compilers, programming models, and runtime environments
- Operating systems and virtual machine monitors
- Parallel I/O and storage systems
- Exascale computing systems
- Fault tolerance, reliability and dependability
- Green parallel computing
- Applications and tools

Proceedings

The conference proceedings will be published by IEEE Computer Society.

Important Dates
- **Submission Deadline:** ~~March 15~~ **extended to April 15, 2011**
- **Notification of Acceptance: May 15, 2011**
- **Camera-ready papers due: May 31, 2011**

Paper Submission Guidelines

All papers must be submitted electronically and in PDF format. The material presented should be original and not published or under submission elsewhere. Authors should submit full papers of up to 8 pages, following strictly the IEEE Computer Society Proceedings Manuscript style (available at http://www.computer.org/portal/web/cscps/formatting), using two-column, single-space format, with 10-point font size. Figures and references must be included in the 8 pages. Oversized papers will be automatically rejected by the PC chairs. At least one of the authors of each accepted paper must register early to attend the conference, in order for the paper to appear in the conference proceedings.

Conference Organization

General Chairs

Geyong Min, University of Bradford, UK
George A. Papadopoulos, University of Cyprus, Cyprus

Steering Committee Chairs

Laurence T, Yang, St. Francis Xavier University, Canada
Daming Wei, University of Aizu, Japan

Programme Committee Chairs

Xuanhua Shi, Huazhong University of Science and Technology, China
Dimitrios S. Nikolopoulos, University of Crete and FORTH-ICS

Workshop Co-Chairs

Lizhe Wang, Indiana University, USA
Samee U. Khan, North Dakota State University, USA

Steering Committee

Laurence T, Yang, St. Francis Xavier University, Canada
Geyong Min, University of Bradford, UK
Keqiu Li, Dalian University of Technology, China

For inquiries contact: