ISPA 2015 Call For Papers

ISPA-15 (13th IEEE International Symposium on Parallel and Distributed Processing with Applications) is a forum for presenting leading work on parallel and distributed computing and networking, including architecture, compilers, runtime systems, applications, scalability, security, parallel programming models and much more. During the symposium, scientists and engineers in both academia and industry are invited to present their work on concurrent and parallel systems (multicore, multithreaded, heterogeneous, clustered systems, distributed systems, grids, clouds, and large scale machines).

The 13th ISPA follows the tradition of previous successful ISPA conferences in the years from 2003 to 2014 in Asia, Europe, Australia and North America. It will feature sessions of regular presentations, workshops, tutorials and keynote speeches. ISPA-15 is sponsored by the IEEE Technical Committee on Scalable Computing (TCSC) and the IEEE Computer Society. ISPA-15 is particularly interested in research addressing heterogeneous computing with the use of accelerators, mobile computing, approximate computing, tools and methodologies to improve the quality of parallel programming and applying generic computing approaches to networks, in particular Software Defined networking and its applications.

Topics of interest include, but not limited to:

**Base Technologies and Tools**
- Building block processors: FPGA, multicore, GPU, NoC, SoC
- Parallel and distributed algorithms
- Tools/environments for parallel/distributed software development
- Novel parallel programming paradigms
- Programming models for cloud services and applications
- Code generation and optimization
- Compilers for parallel computers
- Middleware and tools
- Scheduling and resource management
- Performance simulations, measurement, and evaluations
- Reliability, fault tolerance, dependability, and security

**Parallel and Distributed Systems and Architectures**
- Cloud computing and data center technology
- Virtualization of computing
- Migration of computations
- Multi-clouds environments, cloud federation, interoperability
- Energy management and Green Computing
- Wireless and mobile networks
- Internet-Of-Things (IoT)
- Social Networks, crowdsourcing, and P2P systems

**Application of Parallel and Distributed Processing**
- High-performance scientific and engineering computing
- Grid and cluster computing
- Pervasive and ubiquitous computing
- Databases, data mining, and data management
- Big data and business analytics
- Scientific cloud systems and services
- Internet computing and web services
- Application scenarios of IoT and ubiquitous computing
- Experience with computational, workflow and data-intensive applications
- Software Defined Networks and its 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 8 pages, including tables, figures, references and appendixes, in IEEE Computer Society proceedings format with Portable Document Format (.pdf). Please submit your paper [here](http://comnet.aalto.fi/ISPA2015).

Papers will be selected based on their originality, timeliness, significance, relevance, and clarity of presentation. 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. Selected best papers will be published in high quality international journals.

**Important Dates**

- **Workshop Proposal:** February 1, 2015
- **Submission Deadline:** March 31, 2015
- **Authors Notification:** May 31, 2015
- **Final Manuscript Due:** July 1, 2015

**General Chairs**
- Raimo Kantola, Aalto University, Finland
- Zhiyong Liu, Chinese Academy of Sciences, China

**Program Chairs**
- Martina Maggio, Lund University, Sweden
- Antonio Fernández Anta, IMDEA, Spain
- Simone Campanoni, Harvard University, USA

**Publicity Chairs**
- Hai Jin, HUST, China
- Matti Hämäläinen, Digile, Finland

**Workshop Chairs**
- Hannu-Matti Järvinen, TUT, Finland
- Peng Zhang, XUPT, China

**Steering and Program Committees**

[See](http://comnet.aalto.fi/ISPA2015)