The 12th IEEE International Symposium on Parallel and Distributed Processing with Applications

25-29 August 2014, Milano, Italy

ISPA-14 (21th IEEE International Symposium on Parallel and Distributed Processing with Applications) is a forum for leading work on parallel and distributed computing and networking, including architecture, compilers, runtime systems, applications, reliability, 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 21th ISPA follows the tradition of previous successful ISPA conferences, ISPA-03 (Aizu, Japan), ISPA-04 (Hong Kong), ISPA-05 (Nanjing, China), ISPA-06 (Sorrento, Italy), ISPA-07 (Niagara Falls, Canada), ISPA-08 (Sydney, Australia), ISPA-09 (Chengdu, China), ISPA-10 (Taipei, Taiwan), ISPA-11 (Busan, Korea), ISPA-12 (Madrid, Spain) and ISPA-13 (Melbourne, Australia). It will feature session presentations, workshops, tutorials and keynote speeches. ISPA-14 is sponsored by IEEE Technical Committee on Scalable Computing (TCSC) and IEEE Computer Society.

ISPA-14 is particularly interested in research addressing parallel workloads, tools and methodologies to improve the quality of parallel programming. We are also seeking work that exploit synergy between parallel programming models and emerging architectures and infrastructures. Specific topics of interest include (but are not limited to):

- Parallel and Distributed Algorithms, and Applications
- High-performance scientific and engineering computing
- Building block processors: FPGA, multicore, GPU, SoC
- Architectures and Virtualization
- Middleware and tools
- Network and pervasive computing
- Performance simulations, measurement, and evaluations
- Reliability, fault tolerance, and security
- Database, data mining, and data management
- Virtualization techniques, tools, and applications
- Parallel/distributed system architectures
- Tools/environments for parallel/distributed software development
- Novel parallel programming paradigms
- Code generation and optimization
- Compilers for parallel computers

- Distributed systems and applications
- Wireless networks, mobile, and pervasive computing
- Energy management and power optimization
- Green Computing and Energy-aware computing
- Grid and cluster computing
- Scientific cloud systems and services
- Programming models for cloud services and applications
- Internet computing and web services
- Data intensive applications and Internet-Of-Things
- IoT and Ubiquitous computing: application scenarios
- Data storage and big data
- Experience with computational applications, workflow applications, data-intensive applications
- Scheduling and resource management
- Multi-clouds environments, cloud federation, interoperability

Important Dates

Submission Deadline: **11:59PM (UTC/GMT -11 hours) March 9, 2014**
Workshop Proposal: March 9, 2014
Authors Notification: May 9, 2014
Final Manuscript Due: June 8, 2014

Publications

Accepted and presented papers will be included in the IEEE CPS Proceedings. All submissions must be made electronically through the conference web site. Submissions must include contact information, the full list of authors and their affiliations and must be in PDF. The materials presented in the papers should not be published or under submission elsewhere. Each paper is limited to **8 pages** (or 10 pages with over length charge) including figures and references using IEEE Computer Society Proceedings Manuscripts style (**two columns, single-spaced, 10 fonts**). IEEE Computer Society Proceedings Author Guidelines:
http://www.computer.org/portal/web/cscps/formatting

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