

## Call for Posters

High performance computing is a key technology to solve large problems in science, engineering, and business by utilizing computing power which has been evolving to the future. HPC Asia, which is an international conference series on HPC technologies in Asia Pacific region, and was held in the past several times in several countries in Asia regional site to discuss the issues on high performance computing and to exchange information of research and development results. It, however, was not recently organized in the past few years. During these years, new interesting and remarkable technologies and results have appeared. We are planning to organize a meeting as the International Conference on High Performance Computing in Asia-Pacific Region, or HPC Asia 2018 to exchange ideas, case studies, and research results related to all issues of high performance computing.

### Topics of Interest

#### Applications and Algorithms Track

- High performance applications (high speed, low memory, low power simulations)
- Computational science
- Numerical linear algebra and its applications
- High performance library and software framework for applications
- Parallel and vectorization algorithms
- Hybrid/heterogeneous/accelerated algorithms
- Fault-tolerant algorithms
- Graph algorithms

#### Programming Models and Systems Software Track

- Programming for current and future HPC systems
- Tools and libraries for performance and productivity
- System management
- Fault tolerance
- Reproducibility
- Energy efficiency

#### Data, Storage and Visualization Track

- Middleware for big data management
- Big data processing with emerging hardware
- Parallel and distributed file systems
- Storage networks
- Storage systems
- Visualization and image processing
- Reliability and fault tolerance
- Scalable data management
- Transaction processing
- Integration of non-volatile memory
- I/O performance tuning, benchmarking and evaluation
- Provenance

- Experience and application studies on large-scale storage architectures

#### Architectures and Networks Track

- Processor architectures
- Memory architectures
- Interconnect/Network architectures
- Acceleration technologies (e.g., GPUs, FPGAs)
- Power/Energy-aware high-performance computing
- Dependable high-performance computing
- Architectures for emerging device technologies

#### Important Dates

Poster submission open	September 22, 2017
Poster submission deadline	October 20, 2017
Notification of acceptance	November 24, 2017
Symposium	January 29-31, 2018

#### Poster submission instructions

Authors are invited to submit extended abstracts of their posters that are novel and previously unpublished. The abstract must consist of at most 4 pages in the PDF format including figures and references, and be formatted in the ACM Proceedings Style

<http://www.acm.org/publications/proceedings-template>  
and submitted at

<https://ssl.linklings.net/conferences/HPCAsia/>.

The review process is double-blinded. The authors should not disclose their identities in the paper.