CALL FOR PAPERS

Introduction

Following the successful PAAP'08 in Hefei, PAAP'09 in Nanning, PAAP'10 in Dalian, and PAAP'11 in Tianjin, PAAP'12 in Taipei, PAAP'14 in Beijing, PAAP'15 in Nanjing, PAAP'17 in Haikou, the Ninth International Symposium on Parallel Architectures, Algorithms and Programming (PAAP’18) will be held in Taipei, Taiwan during December 26-28, 2018. The PAAP’18 aims at addressing advances in research on parallel computing and information security, covering topics from theoretic studies to technology issues and applications. The conference is to provide a forum for scientists and engineers in academia and industry to present their research results and development activities in all aspects of computer engineering and it also provides opportunities for the delegates to exchange new ideas and application experiences face to face, to establish business or research relations and to find global partners for future collaboration, especially. We devoutly wish participants to learn the basic theory of a gradual approach, practical experimental data, new business models, and the latest academic trends from this conference.

PAAP’18 is sponsored by IEEE Computer Society (Taipei Section). The conference of PAAP’18 will be organized by the National Taiwan University of Science and Technology (NTUST) and Southwest Jiaotong University (SWJTU). The conference is held in NTUST which is located in Taipei city very close to the 101 building, the building ranked officially as the world’s tallest from 2008 to 2010, also it is in the vicinity of the National Palace Museum, which houses hundreds of thousands of Chinese antiques and art works.

We are inviting new and unpublished papers on, but not limited to, the following topics:

- **Architectures**
  - Multi-many-core architectures
  - Interconnection networks
  - Cluster, grid and cloud computing systems
  - Network-on-chip architectures
  - Survivability and safety-critical systems
  - Ubiquitous computing systems
  - Sensor, wireless and RFID systems
  - Reconﬁgurable architectures
  - Self-healing, self-protecting network systems

- **Parallel Programming**
  - Multi-core programming
  - Parallel programming theory and models
  - Formal methods and veriﬁcation
  - Middleware for parallel systems
  - Parallel programming languages
  - Parallel compilers and runtime systems
  - Performance analysis, debugging and optimization
  - Parallel libraries and application frameworks

- **Privacy and Security**
  - Cloud security
  - Data privacy protection
  - Cryptography
  - Intrusion detection
  - Copyright protection
  - Access control
  - Data provenance
  - Trusted computing

**Submission Information**

Papers reporting original and unpublished research results and experience are solicited. Papers will be selected based on their originality, timeliness, significance, relevance, and clarity of presentation. Accepted and presented papers will be published in the conference proceedings. Papers must be written in English and submitted electronically as a PDF/Word file at http://paap18.csie.ntust.edu.tw/ Submissions will be accepted in IEEE conference proceedings format (template available at http://www.computer.org/portal/web/cscomp/la/copyright formatting) and must not exceed 8 pages in length. Conference proceedings will be submitted for inclusion in IEEE Xplore. Extended versions of selected papers will be published in special issues of some SCI-indexed international journals. Each paper will be reviewed by at least 3 prominent researchers who are conversant in Parallel Computing and Information Security.

Submission of a paper should be regarded as a commitment that, if the paper is accepted, at least one of the authors will register and attend the conference. Otherwise papers will be possibly removed from IEEE CS digital library. A selection of the best papers will be published in special issues of some SCI/IEE/IJEs Indexed journals.

**Sponsors**

IEEE (Taipei section)
National Science Council
Ministry of Education
Academia Sinica
Institute of Information Industry

**Important Dates**

- **Full paper submission due**: July 10, 2018
- **Notification acceptance**: September 1, 2018
- **Camera-ready paper and registration due**: September 20, 2018
- **Conference: Dec. 26-28, 2018**

Contact us by: [918paap2018@gmail.com](mailto:918paap2018@gmail.com)

(if you have any questions)