



# The Eighteenth International Conference on Parallel and Distributed Computing, Applications and Technologies (PDCAT'17)

December 18-20, 2017 – Taipei, Taiwan

<http://pdcat17.csie.ntust.edu.tw/>

Sponsored by MOST, NTUST, IEEE Taipei Chapter

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## CALL FOR PAPERS

The International Conference on Parallel and Distributed Computing, Applications and Technologies (PDCAT) is a major forum for scientists, engineers, and practitioners throughout the world to present the latest research, results, ideas, developments and applications in all areas of parallel and distributed computing. Following PDCAT'00 in Hong Kong, PDCAT'01 in Taipei, PDCAT'02 in Kanazawa, Japan, PDCAT'03 in Chengdu, China, PDCAT'04 in Singapore, PDCAT'05 in Dalian, China, PDCAT'06 in Taipei, Taiwan, PDCAT'07 in Adelaide, Australia, PDCAT'08 in Dunedin, New Zealand, PDCAT'09 in Hiroshima, Japan, PDCAT'10 in Wuhan, China, PDCAT'11 in Gwangju, Korea, PDCAT'12 in Beijing, China, PDCAT'13 in Taipei, Taiwan, PDCAT'14 in Hong Kong, China, PDCAT'15 in Jeju, Korea, PDCAT '16 in Guangzhou, China, PDCAT'17 will take place in Taipei, Taiwan. We are inviting new and unpublished papers on, but not limited to, the following topics:

### 1. Networking and Architectures:

Interconnection networks  
Parallel/distributed architectures  
Heterogeneous and multimedia Systems  
ATM networks  
Reliability, and fault-tolerance  
Ubiquitous computing systems  
Computer networks  
Communication and telecommunication  
Wireless networks and mobile computing  
Optical networks  
Cloud/Grid computing systems  
Reconfigurable architecture

### 2. Software Systems and Technologies:

Formal methods and programming languages  
Internet computing  
Image processing and computer vision  
Agent technologies  
Operating systems  
Software tools and environments  
Parallelizing compilers  
Web services  
Component-based and OO Technology  
Simulation and Visualization

### 3. Algorithms and Applications :

Parallel/distributed algorithms  
Task mapping and job scheduling  
Distributed data and knowledge based systems  
Image processing and computer graphics  
High-performance scientific computing  
Reconfigurable high-performance computing  
Resource allocation and management  
Network routing and communication algorithms  
Bioinformatics  
Database applications and data mining  
Intelligent computing and neural networks

### 4. Security and Privacy:

Access control and authorization  
Authentication, biometrics, smartcards  
Distributed systems security  
Mobile code and mobile agent security  
RFID applications  
Privacy preserving computation  
Applied cryptography  
Database security  
Intrusion detection and survivability  
P2P & ad hoc networks  
Cloud security  
Security protocols

## PAPER SUBMISSION GUIDELINE:

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://pdcat17.csie.ntust.edu.tw/>** Submissions should be made in IEEE conference proceedings format (template available at <http://www.computer.org/portal/web/cscps/formatting>), and must not exceed 8 pages in length. Conference proceedings will be submitted for inclusion in IEEE Xplore and submitted to the indexing of EI. Extended versions of selected papers will be published in special issues of some SCI-indexed international journals.

## IMPORTANT DATES:

**Paper submission deadline: July 8, 2017 September 7, 2017**

**Author notification: September 15, 2017 October 20, 2017**

**Camera-ready version due: September 20, 2017 November 3, 2017**

**Conference: December 18-20, 2017**

## ABOUT Taipei:

Located in northern Taiwan, Taipei is the political, economic, financial, and cultural center of Taiwan. It is a city that blends traditional culture and cosmopolitan life. It has a thriving arts and academic scene and countless modern commercial buildings. With its vibrant cultural and economic growth, it has become a modern international metropolis.

## CONTACT US:

Any queries regarding PDCAT 2017 should be directed to [pdcat2017@gmail.com](mailto:pdcat2017@gmail.com).

Organized by: National Taiwan University of Science and Technology, TaiwanCo-Sponsored by: Southwest Jiaotong University, China; Ministry of Science and Technology, Taiwan; Ministry of Education, Taiwan; IEEE Computer Society; Technical Committee on Parallel Processing (TCPP);IEEE Taipei Section

