



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/>

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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 We are inviting new and unpublished papers on, but not limited to, the following topics: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 August 31, 2017

Author notification: September 15, 2017

Camera-ready version due: September 20, 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:

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Ministry of Education, Taiwan; IEEE Computer Society; Technical Committee on Parallel Processing

(TCPP);IEEE Taipei Section

