PDCAT 2019

5-7, Dec. 2019   Gold Coast, Australia

PRELIMINARY CALL FOR PAPERS

The International Conference on **P**arallel and **D**istributed **C**omputing, **A**pplications and **T**echnologies (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. Started in Hong Kong in 2000, PDCAT 2019 will be held in Gold Coast, Australia, after 19 years of success in many cities of countries including Japan, China, Singapore, Australia, New Zealand and Korea across Asia-Oceania. We are inviting new and unpublished papers on, but not limited to, the following topics:

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

Algorithms and Applications:
Parallel/distributed algorithms
Big data computing and analysis
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

Software Systems and Technologies:
Task mapping and job scheduling
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

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, Cloud security
Intrusion detection and survivability
P2P & ad hoc networks
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Papers reporting original and unpublished research results and experience are solicited.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. PDCAT 2019 is technically co-sponsored by IEEE Computer Society and its Technical committee on Parallel Processing (TCPP). Accepted papers will be published by IEEE Computer Society. Submissions should be made in IEEE conference proceedings format (template available here), and must not exceed **6** pages in length. Extended versions of selected papers will be published in special issues of several reputable international journals**.**

ORGANIZING COMMITTEE:

General Chair: Geoffrey Fox, Hong Shen, Bela Stantic
Program Chair: Alan Wee-Chung Liew, Manu Malek,
                 Mirjana Ivanovic, Hui Tian

CONFERENCE WEBSITE: www.pdcat.org
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CONTACT US: Any queries regarding PDCAT 2019 should be directed to pdcat2019@griffith.edu.au

IMPORTANT DATES:

Paper submission deadline:	20 Aug. 2019
Author notification:	30 Sep. 2019
Camera-ready version due:	15 Oct. 2019
Conference:	5-7 Dec. 2019