

PDCAT 2019

5-7, Dec. 2019 Gold Coast, Australia

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 We are inviting new and unpublished papers on, but not limited to, the following topics: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

### Software Systems and Technologies:

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

### 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

### 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Papers reporting original and unpublished research results and experience are solicited.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 Xplore. Submissions should be made in IEEE conference proceedings format (template available [here](#)), and not exceed **6** pages in length. Extended versions of selected papers will be invited to special issues of SCI-indexed international journals.

### ORGANIZING COMMITTEE:

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

### IMPORTANT DATES:

Paper submission deadline: **29 July 2019**  
Author notification: 30 Aug. 2019  
Camera-ready version due: 15 Sep. 2019  
Conference: 5-7 Dec. 2019

**CONFERENCE WEBSITE:** [www.pdcat.org](http://www.pdcat.org)

**SPONSORS:** Griffith University, IEEE Computer Society, IEEE technical co-sponsorship, We Are Destination.

**CONTACT US:** Any queries regarding PDCAT 2019 should be directed to [pdcat2019@griffith.edu.au](mailto:pdcat2019@griffith.edu.au)