

#### The Ninth International Conference on

# Parallel and Distributed Computing, Applications and Technologies

1-4 December 2008, Dunedin, New Zealand



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# Tutorial & Workshop Chair

Laurent Lefevre, INRIA, France

#### Local Arrangement Chair

Paul Werstein, University of Otago, New Zealand

#### **IMPORTANT DATES**

Paper submission deadline: June 1, 2008
Author notification: Aug 1, 2008
Camera-ready version due: Sep 1, 2008
Conference: Dec 1-4, 2008

#### **ABOUT DUNEDIN**

Dunedin is the oldest city in New Zealand, founded mainly by Scottish settlers about 150 years ago. For this reason, it is also known as the Edinburgh of the South.

The University of Otago, a key part of Dunedin, is New Zealand's oldest and top-ranked research university. The student life has made it the student capital of New Zealand; the rich mix of cultures makes Dunedin a diverse and vibrant international city of friendly people.

There are ample opportunities to experience the wildlife, including the royal albatross, rare yellow-eyed penguins, seals and dolphins. Dunedin is New Zealand's southern most major city, situated a few hours drive to some of New Zealand's most scenic treasures, including Fiordland and Queenstown, where Lord of the Rings was partially filmed

With a wealth of culture, history, wildlife, climate and attractions, you'll get it all in Dunedin!

#### **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, and PDCAT'07 in Adelaide, Australia, PDCAT'08 will be in Dunedin, New Zealand. We are inviting new and unpublished papers on, but not limited to, the following topics:

# 1. Networking and Architectures

- 1-01 Interconnection networks
- 1-02 Parallel/distributed architectures
- 1-03 Heterogeneous and multimedia Systems
- 1-04 Multi-core related technologies
- 1-05 Reliability, and fault-tolerance
- 1-06 Ubiquitous computing systems
- 1-07 Computer networks
- 1-08 Communication and telecommunication
- 1-09 Wireless networks and mobile
- 1-10 Optical networks
- 1-11 Grid computing systems
- 1-12 Reconfigurable architecture

# 2. Software Systems and Technologies

- 2-01 Formal methods and programming languages
- 2-02 Internet computing
- 2-03 Image processing and computer vision
- 2-04 Agent technologies
- 2-05 Operating systems
- 2-06 Software tools and environments
- 2-07 Parallelizing compilers
- 2-08 Web services
- 2-09 Component-based and OO Technology
- 2-10 Simulation and Visualization

## 3. Algorithms and Applications

- 3-01 Parallel/distributed algorithms
- 3-02 Task mapping and job scheduling
- 3-03 Distributed data and knowledge based systems
- 3-04 Image processing and computer graphics
- 3-05 High-performance scientific computing
- 3-06 Reconfigurable high-performance computing
- 3-07 Resource allocation and management
- 3-08 Network routing and communication algorithms
- 3-09 Bioinformatics
- 3-10 Database applications and data mining
- 3-11 Intelligent computing and neural networks

# 4. Security and Privacy

- 4-01 Access control and authorization
- 4-02 Authentication, biometrics, smartcards
- 4-03 Distributed systems security
- 4-04 Mobile code and mobile agent security
- 4-05 RFID applications
- 4-06 Privacy preserving computation
- 4-07 Applied cryptography
- 4-08 Database security
- 4-09 Intrusion detection and survivability
- 4-10 P2P and ad-hoc networks
- 4-11 Security protocols

#### PAPER SUBMISSION GUIDELINES

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.

Submissions should include abstract, key words, the e-mail address of the corresponding author, and must not exceed 10 pages of single column, including tables and figures. Submissions imply the willingness of at least one author to register, attend the conference, and present the paper. Submissions to PDCAT'08 are made electronically. Authors should upload their manuscripts in PDF format with file name including an appropriate topic code in the file name of each manuscript. For example, if author Ray submits a paper in the topic of Interconnection networks, the file name should be 1-01\_Ray. If you cannot find a suitable topic for your paper, please use the subject code "0-00".

The conference proceedings of PDCAT'08 will be published in English by IEEE Computer Society and cited by Engineering Information (EI). Extended versions of selected papers are to be published in a special issue of The Journal of Supercomputing.