



# The Sixth International Conference on Parallel and Distributed Computing, Applications and Technologies (PDCAT'05)

5-8 December 2005 – Dalian University of Technology (DUT), Dalian, China

<http://www.jaist.ac.jp/pdcat05>

Sponsored by IEICE Information and Systems Society, IEEE Beijing Chapter, JAIST, DUT

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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 will be held in Dalian, China. We are inviting new and unpublished papers on, but not limited to, the following topics:

### 1. Networking and Architectures:

- Interconnection networks **1-01**
- Computer networks **1-02**
- Parallel/distributed architectures **1-03**
- Communication and telecommunication **1-04**
- Heterogeneous and multimedia Systems **1-05**
- Wireless networks and mobile computing **1-06**
- ATM networks **1-07**
- Optical networks **1-08**
- Security, reliability, and fault-tolerance **1-09**
- Grid computing systems **1-10**
- Ubiquitous computing systems **1-11**

### 2. Software Systems and Technologies:

- Formal methods and programming Languages **2-01**
- Parallelizing compilers **2-02**
- Internet computing **2-03**
- Web technologies **2-04**
- Agent technologies **2-05**

- Component-based and OO Technology **2-06**
  - Operating systems **2-07**
  - Simulation and performance evaluation **2-08**
  - Tools and environments for software development **2-09**
  - Visualization **2-10**
- ### 3. Algorithms and Applications:
- Parallel/distributed algorithms **3-01**
  - Resource allocation and management **3-02**
  - Task mapping and job scheduling **3-03**
  - Network routing and communication algorithms **3-04**
  - Distributed data and knowledge based systems **3-05**
  - Bioinformatics **3-06**
  - Image processing and computer graphics **3-07**
  - Database applications and data mining **3-08**
  - High-performance scientific computing **3-09**
  - Intelligent computing and neural networks **3-10**

## 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Papers reporting original and unpublished research results and experience are solicited.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'05 are conducted only electronically.** Authors should send their manuscripts in the PDF or DOC formats to [pdcat05@jaist.ac.jp](mailto:pdcat05@jaist.ac.jp) including the keyword of PDCAT2005 and the appropriate topic codes inside the email subjects. For example, if you have a paper in the topic of Internetconnection networks, the email subject may be '*PDCAT2005 Submission (1-01)*'. If you cannot find a suitable topic for your paper, please use the subject '*PDCAT2005 Submission (others)*'. It is planned that the conference proceedings of PDCAT'05 will be published in English by IEEE Computer Society (**cited by EI**) and extended versions of some selected papers are to be published in a special issue of two journals: IEICE Trans. on Information and Systems (**cited by SCI**), International Journal High Performance Computing and Networking.

## IMPORTANT DATES:

**Paper submission deadline: June 5, 2005**

**Author notification: Aug 1, 2005**

**Camera-ready version due: Sep 1, 2005**

**Conference: Dec 5-8, 2005**

## ABOUT DALIAN:

Dalian, a well-known city with a longstanding history and civilization, lies on the east coast of Eurasia and the southern tip of Liaodong peninsula in Northeast China, with the Yellow Sea on the east, Bohai Sea on the west, facing the Shandong peninsula across the sea on the south and backed up by the vast Northeast Plain on the north. Dalian is the marine gateway of Northeast China. Now as the provincial level decision-making authority, also named as "Northern Hong Kong", it comprises 5 districts, 3 county-level cities with a total population of 5,601,000. Dalian has a world-class reputation for its seafood, shopping, and sightseeing. Numerous tourist spots including the Xinghai Shell Museum, the second phase of the Dalian Water Paradise and the Sun Asia Ocean World have been opened for tourists. All these tourist spots can be visited comfortably in December. Dalian is well connected to major cities via air and rail.