Preface

Welcome to the Sixth International Conference on Parallel and Distributed Computing, Applications and Technologies (PDCAT 2005). PDCAT 2005 is an international conference sponsored by IEICE Information and Systems Society, IEEE Beijing Section, Dalian University of Technology, and Japan Advanced Institute of Science and Technology. It provides a major forum for scientists, engineers, and practitioners throughout the world to present the latest research, results, ideas, development, techniques, and applications in all areas of parallel and distributed computing. PDCAT 2005 focuses on architectures, software systems, algorithms, applications, and technologies in the field of parallel and distributed computing and networking.

This proceedings collects qualified papers selected from 550 submissions from 20 countries/regions worldwide. The overall quality of the submissions is high, making the selection process difficult. Through a careful review process, where each submitted manuscript was reviewed as full paper by at least two Program Committee members or their external referees, the Program Committee accepted about 25% of the submissions.

We are very pleased to have three outstanding researchers to deliver keynote addresses at the conference: “Future Technological Challenges for High Performance Computers” by Dr. Tadashi Watanabe from NEC, Japan; “An Agile Programming Model for Grid End Users” by Prof. Zhiwei Xu from Chinese Academy of Sciences, China; and “Scalable and Practical Nonblocking Switching Networks” by Si Qing Zheng from University of Texas at Dallas, USA. We are grateful to our keynote speakers for their valuable contributions to the conference. The full papers/extended abstracts of their addresses are also contained in this proceedings.

The four-day technical program including a half-day tutorial program consisting of five parallel tutorial sessions contains 50 technical sessions and three keynote sessions. We would like to express our thanks to all authors who submitted their papers for consideration and to all Program Committee members and external referees for their help in the paper review process. We would like to extend our special thanks to the Program Vice Chairs, Robert Li, Chinese University of Hong Kong, China; Teruo Matsuzawa, Japan Advanced Institute of Science and Technology, Japan; and Fuliang Yin, Dalian University of Technology, China, for their excellent work on convening paper reviews of their own tracks. We would also like to express our thanks to Yingwei Jin, Haibin Kan, Keqiu Li, Gui Xie, Chao Peng, and Haibo Zhang for their help in local arrangement, proceedings publication, conference Web page maintenance, and registration. Our appreciation also goes to our tutorial presenters and session chairs who have made visible contributions to the conference.

Last but not least, we wish to thank all attendees for participating in the conference. We hope that you will find your participation in this conference rewarding and your stay in Dalian enjoyable.

Hong Shen, General Chair
Koji Nakano, Program Chair

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