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Preface

Welcome to the proceedings of the 2007 IFIP International Conference on Network and Parallel Computing (NPC 2007) held in Dalian, China.

NPC has been a premier conference that has brought together researchers and practitioners from academia, industry and governments around the world to advance the theories and technologies of network and parallel computing. The goal of NPC is to establish an international forum for researchers and practitioners to present their excellent ideas and experiences in all system fields of network and parallel computing. The main focus of NPC 2007 was on the most critical areas of network and parallel computing: network applications, network technologies, network and parallel architectures, and parallel and distributed software.

In total, the conference received more than 600 papers from researchers and practitioners from over 20 countries and areas. Each paper was reviewed by at least three internationally renowned referees and selected based on its originality, significance, correctness, relevance, and clarity of presentation. Among the high-quality submissions, only 53 regular papers were accepted by the conference. All of the selected conference papers are included in the conference proceedings. After the conference, some high-quality papers will be recommended to be published in a special issue of several international journals.

We were delighted to host four well-known international scholars offering the keynote speeches: Tharam Dillon from Curtin University of Technology, Australia, Takashi Nanya from University of Tokyo, Japan, Guang R. Gao from University of Delaware, USA, and Zhiwei Xu from Chinese Academy of Sciences, China.

We would like to take this opportunity to thank all the authors for their submissions to NPC 2007. Many of them travelled some distance to participate in the conference. We also thank the Program Committee members and additional reviewers for the efforts in reviewing the large number of papers. Thanks also go to the local conference organizers for their great support.

Last but not least, we would like to express our gratitude to all of the organizations who have supported our efforts to bring the conference and workshops to fruition. We are grateful to IFIP Working Group 10.3 on Concurrent Systems, Institute of Computing Technology of the Chinese Academy of Sciences, Dalian Maritime University, Huazhong University of Science and Technology, and Central Queensland University for their sponsorship and assistance.

September 2007

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