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Preface

The IFIP International Conference on Network and Parallel Computing is an international conference, aimed at providing an exciting platform and forum for researchers and developers from academia and industry to present their latest research in the field of parallel computing systems and applications.

This year NPC received 89 submissions from authors in 11 countries. The papers were reviewed by a 51-member Program Committee, with 26 members from USA, 9 from mainland China, and the rest from Canada, Hong Kong, Taiwan, Korea, Japan, UK, and France. Each paper received three to six reviews. Based on a total of 287 reviews, the Program Co-chairs accepted papers into two categories:

Select papers: 23 papers passed the most stringent selection. Each paper is up to 15 pages in the conference proceedings. The acceptance rate for select papers is 25.8%.

Regular papers: 11 additional papers are of suffcient publishable quality. Each paper is up to 10 pages.

For the main conference, we invited three distinguished speakers:

- Xiaodong Zhang (Ohio State University, USA): Building a Domain-Knowledge Guided System Software Environment to Achieve High Performance of Multicore Processors
- Huaimin Wang (National University of Defense Technology, China): Internet-Based Virtual Computing Environment
- Jesse Fang (Intel Labs, China)

One workshop was held in conjunction with the NPC 2010 conference: the International Workshop on Network on Chip (IWNoC 2010). The workshop was chaired by Huaxi Gu and Jiang Xu. The proceedings of the workshop are included in this volume.

We would like to thank all the authors of submitted papers for their work and their interest in the conference. We would like to express our sincere appreciation to all members of the Program Committee. Of the 296 reviews we assigned, 287 (97%) were completed. It was from these reviews that we identified a set of submissions that were clear, relevant, and described high-quality work in parallel systems and applications. Through these reviews hundreds of authors received objective and often detailed feedback from a diverse group of experts. In addition, we would like to thank the General Chairs Hai Jin and Jean-Luc Gaudiot and the Steering Committee members Kemal Ebcioglu and Guang Gao for their invaluable advice and guidance, as well as Alfred Hofmann and Ursula Barth of the LNCS editorial team for their prompt and patient response to our questions and requests. The conference proceedings would not have been possible without

the support of these individuals and organizations. At closing, it is our hope that all of these efforts have helped to improve and promote parallel-computing research in China, other Asian countries, the USA and beyond.

September 2010

Chen Ding
Zhiyuan Shao
Ran Zheng

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