Preface

Welcome to the NPC 2008 Workshops, which are an important part of the NPC 2008 event. The goal of organizing workshops is to share understandings and experiences, to foster research communities, to learn from each other, and to envision future directions in the field of network and parallel computing. It is our great honor to present the following six workshops successfully held on 18-19 October 2008, in conjunction with the 2008 IFIP International Conference on Network and Parallel Computing (NPC 2008), Shanghai, China, 18-20 October 2008.

1. The 2008 IFIP International Workshop on Network and System Security, co-chaired by Prof. Wanlei Zhou and Dr. Yang Xiang. The aim of this workshop is to provide a leading edge forum to foster interaction between researchers and developers with the network and system security communities, and to give attendees an opportunity to interact with experts in academia, industry, and governments.

2. The Second IFIP International Workshop on Advanced Topics in Network Computing, Technology, and Application (ATNCTA 2008), co-chaired by Prof. Hong Tang and Prof. Jianping Jiang. The aim of this workshop is to provide a distinctive premier international forum for active researchers, developers, professionals, and academicians to share state-of-the-art research achievements and practical experiences, to exchange in-depth findings and innovative ideas, and in particular to harness the greatest challenges and think seriously about the novel approaches and innovative directions in network computing.

3. The First International Workshop on UnderWater Networks (CWUWNet 2008), co-chaired by Prof. Zhongwen Guo and Dr. Feng Hong. The aim of this workshop is to bring together researchers and practitioners in areas relevant to underwater networks and to serve as a forum for presenting state-of-the-art research, exchanging ideas and experiences, and facilitating interaction and collaboration.

4. The First International Workshop on High Performance Networks (HPN 2008), co-chaired by Prof. Ning Cai and Dr. Xin Wang. The aim of this workshop is to serve as a forum for researchers and engineers to discuss current challenges in high-performance network and to present recent work and research results.

5. The First International Workshop on High Performance Scientific and Engineering Computing with Applications (HPSECA 2008), co-chaired by Prof. Hong Liu and Prof. Feng Liu. The aim of the workshop is to attract and bring together computer scientists and engineers, applied mathematicians, researchers in other applied fields, industrial professionals to present, discuss, and exchange ideas, results, work in progress, and experience of research in the area of high-performance computing for problems in science and engineering applications.

6. The First IFIP International Workshop on Distributed Knowledge Management (DKM 2008), co-chaired by Prof. Yinglin Wang, Prof. Ahmed Rafea, A/Prof. Joseph Davis, and Dr. Renate Fruchter. The aim of the workshop is to serve as a forum for researchers and engineers to discuss current challenges, to exchange ideas, and to report state-of-the-art research results of knowledge management in the distributed network environment.

These workshops cover a wide range of established or emerging topics in areas related to network and parallel computing. We appreciate all workshops co-chairs for their dedication and professionalism. We would like to thank Prof. Minglu Li, NPC 2008 General Co-Chair, and Prof. Jian Cao, NPC 2008 Program Vice Co-Chair, for their tremendous support. We also thank Dr. Guangtao Xue and A/Prof. Xing Wang, NPC 2008 Publication Co-Chairs, for their hard work in bringing us the proceedings of the workshops. Finally, we want to acknowledge all workshops’ authors and participants for their interesting, enlightening presentations and discussions. We hope everyone will have a great time in Shanghai, China.

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