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Advanced Parallel Processing Technologies

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Preface

Welcome to the proceedings of APPT 2005: the 6th International Workshop on Advanced Parallel Processing Technologies. APPT is a biennial workshop on parallel and distributed processing. Its scope covers all aspects of parallel and distributed computing technologies, including architectures, software systems and tools, algorithms, and applications. APPT originated from collaborations by researchers from China and Germany and has evolved to be an international workshop. APPT 2005 was the sixth in the series. The past five workshops were held in Beijing, Koblenz, Changsha, Ilmenau, and Xiamen, respectively.

The Program Committee is pleased to present the proceedings for APPT 2005. This year, APPT 2005 received over 220 submissions from researchers all over the world. All the papers were peer reviewed by two to three Program Committee members on their relevance, originality, significance, technical quality, and presentation. Based on the review result, 55 high-quality papers were selected to be included in the proceedings. The papers in this volume represent the forefront of research on parallel processing and related fields by researchers from China, Germany, USA, Korea, India, and other countries. The papers accepted cover a wide range of exciting topics, including architectures, software, networking, and applications.

The excellent program was the result of the hard work and the collective effort of many people and organizations. We would like to express our special thanks to the Architecture Professional Committee of the China Computer Federation (APC-CCF), the Hong Kong Polytechnic University, the National University of Defense Technology, China, and the Harbin Institute of Technology, China. We would like to thank the general chair, Prof. Xingming Zhou, and the general co-chairs, Prof. Xiaodong Zhang and Prof. David Bader, for their great support. Thanks to all members of the Program Committee and all the other reviewers for the time and hard work they put into the thorough reviewing of the large number of papers. We appreciate the keynote speakers, Prof. Francis C.M. Lau and Prof. Kurt Rothermel, for their strong support of the program. We would also like to express our gratitude to Springer for its assistance in putting the proceedings together. Last but not least, our thanks go to the Local Organizing Committee for the great job it did in making the local arrangements and organizing an attractive social program. Without their dedicated help and diligent work, the workshop would not have been so successful.

We would like to take this opportunity to thank all the authors, many of whom traveled great distances to participate in this workshop and make their

valuable contributions. We hope that all participants enjoyed the program and found it worthwhile. We warmly welcome any comments and suggestions to improve our work.

August 2005

Giannong Cao
Wolfgang Nejdl
Ming Xu

Organization

APPT 2005 was organized mainly by the Department of Computing, Hong Kong Polytechnic University and the National University of Defense Technology, China.

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