

Preface

The ever-increasing demand of parallel processing drives society to investigate new computer architecture and system software techniques. Following this trend, APPT 2015 broadly captured the recent advances in big data processing, parallel architectures and systems, parallel software, parallel algorithms and applications, distributed and cloud computing, etc., and provided an excellent forum for the presentation of research efforts and the exchange of viewpoints.

We would like to express our gratitude to all the colleagues who submitted papers and congratulate those whose papers were accepted. Following the successes in the previous 20 years, APPT managed to provide a high-quality program for all attendees. Among 24 submissions, the Program Committee (PC) decided to accept eight papers, with a acceptance rate of 33.3 %. Most submissions were reviewed by three PC members. There was also an online discussion stage to guarantee that consensus was reached for each submission.

While we would like to thank the authors for submitting their fine work to APPT 2015, and we would also like to show our sincere appreciation to this year's PC. The 30 PC members did an excellent job in returning high-quality reviews in time and engaging in a constructive online discussion. We would also like to thank the general chairs (Prof. Endong Wang and Yong Dou), the Organizing Committee members, the publicity and exhibition chairs, and publication chairs. The contributions from our sponsors and supporters were also invaluable: We would like to thank the China Computer Federation, the Technical Committee on Computer Architecture of the China Computer Federation, the National Laboratory for Parallel and Distributed Processing, the State Key Laboratory of Computer Architecture, and the State Key Laboratory of High-End Server and Storage Technology. Our thanks also go to Springer for its assistance in putting the proceedings together. Finally, we offer our special thanks to the Inspur Company, which made APPT 2015 possible.

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