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Ting Hu · Feng Wang  
Hongwei Li · Qian Wang (Eds.)

# Algorithms and Architectures for Parallel Processing

ICA3PP 2018 International Workshops  
Guangzhou, China, November 15–17, 2018  
Proceedings

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# Preface

Welcome to the proceedings of the 18th International Conference on Algorithms and Architectures for Parallel Processing (ICA3PP 2018), which was organized by Guangzhou University and held in Guangzhou, China, during November 15–17, 2018. This year, the program consisted of two workshops covering two important aspects of parallel processing technology in the cloud and big data era:

- (1) ICA3PP 2018 Workshop on Intelligent Algorithms for Large-Scale Complex Optimization Problems
- (2) ICA3PP 2018 Workshop on Security and Privacy in Data Processing

The aim of these workshops is to provide a forum to bring together practitioners and researchers from academia and industry for discussion and presentations on the current research and future directions related to parallel processing technology. The themes and topics of these workshops are a valuable complement to the overall scope of ICA3PP 2018, providing additional value and interest. We hope that all of the selected papers will have a good impact on future research in the respective field.

The ICA3PP 2018 workshops collected research papers on the related research issues from all around the world. All submissions received at least two reviews during the review process. According to the review results, 24 papers were selected for presentation at the conference.

The success of the ICA3PP 2018 workshops depended on the work of many individuals and organizations. We therefore thank all workshop organizers for their hard work in designing the call for papers, assembling the Program Committee, managing the peer-review process for the selection of papers, and planning the workshop program. We would also like to express our gratitude to the members of the Program Committee for the time and effort that they invested. Sincere thanks are due to Springer for their help in publishing the proceedings. Our special thanks to the Organizing Committees of ICA3PP 2018 for their strong support, and especially to the program chairs, Prof. Jaideep Vaidya and Prof. Jin Li, for their guidance.

Lastly, we thank all participants of the ICA3PP workshops for their contribution. We hope that you will find the proceedings interesting and stimulating. It was a pleasure to organize and host the ICA3PP workshops 2018 in Guangzhou.

November 2018

Ting Hu  
Feng Wang  
Hongwei Li  
Qian Wang

# Organization

## ICA3PP 2018 Workshop on Intelligent Algorithms for Large-Scale Complex Optimization Problems

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## ICA3PP 2018 Workshop on Security and Privacy in Data Processing

### Workshop Chairs

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### Workshop Program Committee

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China  
Haomiao Yang             University of Electronic Science and Technology of China,  
China

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