

## Preface

The year 2016 marked the 12th anniversary of the International Conference on Advanced Data Mining and Applications (ADMA). This conference series has been organized and held in China since 2005. ADMA 2016 was the first time the conference was held outside China, taking place on Australia's Gold Coast during December 12–15, 2016. ADMA aims at bringing together both young researchers and senior experts from the world, and also at providing a leading international forum for the dissemination of original data mining findings and practical data mining experience. Over the years, ADMA has grown to become a flagship conference in the field of data mining and applications.

This volume comprises 57 thoroughly reviewed and carefully revised full-length papers that were all presented at the conference. The conference Program Committee received 105 high-quality manuscripts. Each of them was assigned to at least three Program Committee members for comments. All papers were rigorously reviewed and had at least three reviews. Some borderline papers were even reviewed by five members of the committee if the first three reviews were not adequate for making a rejection or acceptance decision. Several research teams showed strong interest in ADMA 2016, and submitted multiple high-quality papers of different topics. It was difficult for the committee chairs to exclude some of these papers so as to reserve some space for other teams to present their latest research achievements.

Although many papers were worthy of publication, only 18 spotlight research papers (acceptance rate of 17%, 15 pages each) and 39 regular research papers (13 pages each) could be accepted for presentation at the conference and publication in this volume. The selected papers covered a wide variety of important topics in the area of data mining, including parallel and distributed data mining algorithms, mining on data streams, graph mining, spatial data mining, multimedia data mining, Web mining, the Internet of Things, health informatics, and biomedical data mining. The conference program of ADMA 2016 was also complemented by four outstanding keynotes given by Yufei Tao, Pablo Moscato, Scott Johnston, and Gao Cong, as well as several research demonstrations. We would like to particularly thank the keynote speakers for presenting algorithms and ideas to solve data mining problems in the frontier areas of the field.

We thank the Program Committee members for their time and invaluable comments. The schedule of the reviewing process was extremely tight. The members' tremendous efforts to complete the review reports before the deadline are greatly appreciated. We read all of the review reports and found some of them to be truly excellent, as good as what is usually found in a survey—critical, digressive, and detailed. These comments were very helpful for us in selecting the papers. Thank you all and may the papers collected in this volume inspire the readers and open new windows of research.

We would like to express our gratitude to all individuals, institutions, and sponsors that supported ADMA 2016. This high-quality program would not have been possible without the expertise and dedication of our Program Committee members. We are

grateful for the guidance of the general chairs (Michael Sheng and Osmar Zaiane), the tireless efforts of the demonstration chairs (Ji Zhang and Mingkui Tan), the publicity chair (Xiujuan Xu), the publication chair (Jianxin Li), the award chair (Zhifeng Bao), the Web chair (Wenjie Ruan), the special issue chair (Yongrui Qin), and the local organization chair (Weitong Chen). We would also like to acknowledge the support of the members of the conference Steering Committee. All of them helped make ADMA 2016 a success. Finally, we would like to thank all researchers, practitioners, and students who contributed with their work and participated in the conference. We hope that you find the papers in the proceedings interesting and stimulating.

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