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Longbing Cao
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Preface

With the ever-growing power of generating, transmitting, and collecting huge amounts of data, information overload is now an imminent problem to mankind. The overwhelming demand for information processing is not just about a better understanding of data, but also a better usage of data in a timely fashion. Data mining, or knowledge discovery from databases, is proposed to gain insight into aspects of data and to help people make informed, sensible, and better decisions. At present, growing attention has been paid to the study, development, and application of data mining. As a result there is an urgent need for sophisticated techniques and tools that can handle new fields of data mining, e.g., spatial data mining, biomedical data mining, and mining on high-speed and time-variant data streams. The knowledge of data mining should also be expanded to new applications.

The 6th International Conference on Advanced Data Mining and Applications (ADMA 2010) aimed to bring together the experts on data mining throughout the world. It provided a leading international forum for the dissemination of original research results in advanced data mining techniques, applications, algorithms, software and systems, and different applied disciplines. The conference attracted 361 online submissions from 34 different countries and areas. All full papers were peer reviewed by at least three members of the Program Committee composed of international experts in data mining fields. A total number of 118 papers were accepted for the conference. Amongst them, 63 papers were selected as regular papers and 55 papers were selected as short papers. The Program Committee worked very hard to select these papers through a rigorous review process and extensive discussion, and finally composed a diverse and exciting program for ADMA 2010. The ADMA 2010 program was highlighted by three keynote speeches from outstanding researchers in advanced data mining and application areas: Kotagiri Ramamohanarao, Chengqi Zhang, and Vladimir Brusil.

September 2010

Longbing Cao
Yong Feng
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Organization

ADMA 2010 was organized by Chongqing University, China, and the School of Information Technology and Electrical Engineering, the University of Queensland, Australia, sponsored by the National Natural Science Foundation of China, Chongqing Science and Technology Commission, Chongqing Academy of Science and Technology, and technically co-sponsored by IEEE Queensland Section.

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