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Preface

The International Conference on Rough Set and Knowledge Technology (RSKT) has been held every year since 2006. RSKT serves as a major forum that brings researchers and industry practitioners together to discuss and deliberate on fundamental issues of knowledge processing and management and knowledge-intensive practical solutions in the current knowledge age. Experts from around the world meet to present state-of-the-art scientific results, to nurture academic and industrial interaction, and to promote collaborative research in rough sets and knowledge technology. The first RSKT was held in Chongqing, China, followed by RSKT 2007 in Toronto, Canada, RSKT 2008 in Chengdu, China and RSKT 2009 in Gold Coast, Australia. RSKT 2010, the 5th in the series, was held in Beijing, China, October 15–17, 2010.

This volume contains 98 papers selected for presentation at RSKT 2010. Following the success of the previous conferences, RSKT 2010 continued the tradition of a very rigorous reviewing process. Every submission was reviewed by at least two reviewers. Moreover, RSKT 2010 invited several area chairs to supervise the review process of every submission. Most submissions were reviewed by three experts. The Program Committee members were deeply involved in a highly engaging selection process with discussions among reviewers and area chairs. When necessary, additional expert reviews were sought. As a result, only top-quality papers were chosen for presentation at the conference, including 49 regular papers (acceptance rate of 28%) and 25 short papers (acceptance rate of 14.3%). We would like to thank all the authors for contributing their best papers. Without their support, this conference would not have been possible.

The RSKT program was further enriched by six keynote speeches. We are grateful to our keynote speakers, Bo Zhang, Ian H. Witten, Roman Slowinski, Deyi Li, Jianchang Mao, and Sankar K. Pal, for their visionary talks on rough sets and knowledge technology. The RSKT 2010 program included four special sessions with 24 papers: Data Mining in Cloud Computing, Decision-Theoretic Rough Set (DTRS) Model, Quotient Space Theory and Application, and Cloud Model and Application.

RSKT 2010 would not have been successful without the support of many people and organizations. We wish to thank the members of the Steering Committee for their invaluable suggestions and support throughout the organizational process. We are indebted to the area chairs, Program Committee members, and external reviewers for their effort and engagement in providing a rich and rigorous scientific program for RSKT 2010. We express our gratitude to our Special Session Chairs (Zhongzhi Shi, Yong Yang, Fan Yang, Guisheng Chen, Jingtao Yao, Tianrui Li, Xiaoping Yang, Yanping Zhang) for selecting and coordinating the exciting sessions. We are also grateful to the Local Arrangement Chairs

Liping Jing and Zhen Han as well as the Local Organizing Committee, whose great effort ensured the success of the conference.

We greatly appreciate the cooperation, support, and sponsorship of various institutions, companies, and organizers, including Beijing Jiaotong University, China, National Natural Science Foundation of China (NSFC), International Rough Set Society (IRSS), and the Rough Sets and Soft Computation Society of the Chinese Association for Artificial Intelligence (CRSSC).

We are thankful to Alfred Hofmann and the excellent LNCS team at Springer for their support and cooperation in publishing the proceedings as a volume of the *Lecture Notes in Computer Science*.

October 2010

Jian Yu
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