Preface

This volume contains the proceedings of the 13th Asia-Pacific Conference on Web Technology (APWeb), held April 18–20, 2011, in Beijing, China. APWeb is a leading international conference on research, development and applications of Web technologies, database systems, information management and software engineering, with a focus on the Asia-Pacific region.

Acceptance into the conference proceedings was competitive. The conference received 104 submissions overall, from 13 countries and regions. Among these submissions the Program Committee selected 26 regular papers and 10 short papers. The acceptance rate for regular papers is 25%, while the overall acceptance rate is 34.6% when short papers are included. The submissions ranged over a variety of topics, from traditional topics such as Web search, databases, data mining, to emerging emphasis on Web mining, Web data management and service-oriented computing. The submissions were divided into nine tracks based on their contents. Each submission was reviewed by at least three members of the Program Committee or external reviewers. Needless to say, to accept only 36 papers we were forced to reject many high-quality submissions. We would like to thank all the authors for submitting their best work to APWeb 2011, accepted or not.

In addition to the research papers, this volume also includes four demo papers, which were selected by a separate committee chaired by Gao Hong and Egemen Tanin. It also includes papers accompanying three keynote talks, given by Philip S. Yu, Deyi Li and Christian S. Jensen.

This volume also contains APWeb workshop papers, from the Second International Workshop on XML Data Management (XMLDM 2011) organized by Jiaheng Lu from Renmin University of China, and the Second International Workshop on Unstructured Data Management (USD 2011) organized by Tenjiao Wang from Peking University, China. These two workshops were treated as special sessions of the APWeb conference. The details on the workshop organization can be found in the messages of the workshop organizers.

APWeb 2011 was co-organized and supported by Renmin University and Tsinghua University, China. It was also supported financially by the National Natural Science Foundation of China, and the Database Society of China Computer Federation.

The conference would not have been a success without help from so many people. The Program Committee that selected the research papers consisted of 118 members. Each of them reviewed a pile of papers, went through extensive discussions, and helped us put together a diverse and exciting research program. In particular, we would like to extend our special thanks to the Track Chairs: Diego Calvanese, Floris Geerts, Zackary Ives, Anastasios Kementsisidis, Xuemin Lin, Jianyong Wang, Cong Yu, Jeffrey Yu, Xiaofang Zhou, for
leading and monitoring the discussions. We would also like to thank the APWeb conference Steering Committee, the APWeb Organizing Committee, as well as the local organizers and volunteers in Beijing, for their effort and time to help make the conference a success. We thank Qian Yi for maintaining the conference website, and the Microsoft Conference Management Tool (CMT) team for their support and help. Finally, we are extremely indebted to Yueguo Chen for overseeing the entire reviewing process, and to Tieyun Qian for handling the editing affairs of the proceedings.

March 2011

Xiaoyong Du
Wenfei Fan
Jianmin Wang
Zhiyong Peng
Mohamed A. Sharaf
In Memoriam of Prof. Shixuan Sa  
(December 27, 1922 – July 11, 2010)

We dedicate this book to our respected Prof. Shixuan Sa, who passed away on July 11, 2010 after a long battle against Parkinson disease.

Professor Sa was a founder of database education and research in China. He wrote the first textbook on databases in China, with his former student Prof. Shan Wang. It is this book that introduced many Chinese scholars to database research.

Professor Sa was also a leader in the Chinese database community. The NDBC Sa Shixuan Best Student Paper Award has been established by the National Database Conference of China (NDBC) in memoriam of his contributions to the database society in China. In fact, the best student paper award was initiated and promoted by Prof. Sa for NDBC in 1984.

Shixuan Sa, Professor of Computer Science at Renmin University of China, was born in Fuzhou city, Fujian Province on December 27, 1922. He studied mathematics at Xiamen University and graduated in 1945. Prior to his move to Renmin University in 1950, he was a lecturer of mathematics at Sun Yat-Sen University and at Huabei University. He was a founder and the first Chairman of the Department of Economic Information Management at Renmin University, which is the first established academic program on information systems in China.

Many of us remember Prof. Sa as a friend, a mentor, a teacher, a leader of the Chinese database community, and a brilliant and wonderful man, a man with great vision, an open mind and a warm heart. Shixuan Sa inspired and encouraged generations of database researchers and practitioners, and was a pioneer in establishing international collaborations. His contributions to the research community, especially in database development and education, are unprecedented. Above all, he was a man admired for his humor, his modesty, and his devotion to his students, family, and friends. In the database world Prof. Sa will be remembered as the man who helped to produce the database community in China.

We would like to express our deep condolences to the family of Shixuan Sa.

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