Welcome to the proceedings of the 21st International Conference on Database Systems for Advanced Applications (DASFAA)! The DASFAA conference is held in varying locations throughout the world, and the 2016 DASFAA conference was held in Dallas, Texas, USA. DASFAA is an annual international database conference, which showcases state-of-the-art R&D activities in database systems and their applications. It provides a forum for technical presentations and discussions among database researchers, developers, and users from academia, business, and industry.

The DASFAA conference is truly an international forum. During its 21-year history, the conference has been held in more than 12 countries around the world. This year’s conference continued this global trend: Our Organizing and Program Committee (PC) members represent 10 countries, and authors submitted papers from 24 different countries/regions.

This year’s conference was competitive. A total of 183 papers were submitted for review. Each paper was reviewed by at least three PC members (except for a few reviewed by two PC members) and the selection was made on the basis of discussion among the reviewers and the program co-chairs. This year, 61 papers were accepted for presentation, representing an acceptance rate of about 33%. In keeping with the goal of advancing the state of the art in databases, paper topics span numerous active and emerging topic areas including big data, crowdsourcing, Web applications, cloud data management, data archive and digital library, data mining, data model and query language, data quality and credibility, data semantics and data integration, data streams and time-series data, data warehouse and OLAP, databases for emerging hardware, database usability and HCI, graph data management, index and storage systems, information extraction and summarization, multimedia databases, parallel, distributed and P2P systems, probabilistic and uncertain data, query processing and optimization, real-time data management, recommendation systems, search and information retrieval, security and privacy, Semantic Web and knowledge management, sensor data management, social network analytics, statistical and scientific databases, temporal and spatial databases, transaction management, Web information systems, and XML and semi-structured data.

Reviewing and selecting papers from such a large set of research groups required the coordinated effort of many individuals. We want to thank all 83 members of the Program Committee and 90 external reviewers, who provided insightful feedback to the authors and helped with this selection process. In addition to the technical presentations, our program also included two invited speakers: Aidong Zhang, Jian Pei and 10-year best paper “Probabilistic Similarity Join on Uncertain Data” which appeared in DASFAA 2006 (written by Hans-Peter Kriegel, Peter Kunath, Martin Pfeifle, Matthias Renz). In addition, a set of four workshops completed the program.
Organizing the DASFAA 2016 program required the time and expertise of numerous contributors. We are grateful for the tremendous help of Hong Gao, Jinho Kim, and Yasushi Sakurai, who organized the workshops, Shaojie Tang, who was this year’s publication chair, Ming Wang and Jun Liang, who organized the industrial/practitioners track, Latifur Khan, Lidong Wu, and Dingzhu Du, who served as local organization co-chairs, Sang Won Lee, Jin Soung Yoo, and Jiaofei Zhong, who served as publicity co-chairs, Jing Yuan, who served as the registration chair, and Lei Cui and Jing Yuan, who served as webmasters. In addition, the guidance of the Steering Committee liaison, Xiaofang Zhou, was invaluable throughout each step of the conference organization and we thank him for his tireless efforts as well.

Finally, we thank the DASFAA community for their support of this international conference. We hope you enjoy the DASFAA conference and that you are inspired by the ideas found in these papers.

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