Preface


The program of ADBIS 2016 included keynotes, research papers, thematic workshops, and a Doctoral Consortium. The conference attracted 85 paper submissions from 49 countries from all continents. After rigorous reviewing by the Program Committee (108 reviewers from 36 countries in the Program Committee and additionally by 31 external reviewers), the 21 papers included in this LNCS proceedings volume were accepted as full contributions, making an acceptance rate of 25 %. Springer sponsored the ADBIS 2016 best paper award. Furthermore, the Program Committee selected 11 more papers as short contributions. The authors of the ADBIS papers come from 33 countries. The two workshop organizations acted on their own and accepted seven papers for the BigDAP (37.7 acceptance rate) and DCSA (40 % acceptance rate) workshops and three for the Doctoral Consortium. The BigDAP and DCSA workshop had one invited paper each in order to enhance visibility and continuation. Short papers, workshop papers, and the special ADBIS history survey paper are published in a companion volume entitled New Trends in Databases and Information Systems in the Springer series Communications in Computer and Information Science. All papers were evaluated by at least three reviewers. The selected papers span a wide spectrum of topics in databases and related technologies, tackling challenging problems and presenting inventive and efficient solutions. In this volume, these papers are organized according to the nine sessions: (1) Database Theory and Access Methods, (2) User Requirements and Database Evolution, (3) Multidimensional Modeling and OLAP, (4) ETL, (5) Transformation, Extraction and Archiving, (6) Modeling and Ontologies, (7) Time Series Processing, (8) Performance and Tuning, (9) Advanced Query
Processing, (10) Approximation and Skyline, (11) Confidentiality and Trust. For this edition of ADBIS 2016, we had three keynote talks: the first one by Erhard Rahm from the University of Leipzig, Germany, on “The Case for Holistic Data Integration,” the second one by Pavel Zezula from Masaryk University, Czech Republic, on “Similarity Searching for Database Applications,” and the third one by Avigdor Gal, from Technion – Israel Institute of Technology, Israel, on “Big Data Integration.”

The best papers of the main conference and workshops were invited to be submitted to special issues of the following journals: *Information Systems* and *Informatica*.

We would like to express our gratitude to every individual who contributed to the success of ADBIS 2016. Firstly, we thank all authors for submitting their research paper to the conference. However, we are also indebted to the members of the community who offered their precious time and expertise in performing various roles ranging from organizational to reviewing roles – their efforts, energy, and degree of professionalism deserve the highest commendations. Special thanks to the Program Committee members and the external reviewers for their support in evaluating the papers submitted to ADBIS 2016, ensuring the quality of the scientific program. We also offer thanks to all the colleagues, secretaries, and engineers involved in the conference and workshops organization, particularly Milena Zeithamlova (Action M Agency) for her endless help and support. A special thank you to the members of the Steering Committee, an in particular, its chair, Leonid Kalinichenko, and his vice chair, Yannis Manolopoulos, for all their help and guidance.

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