

Preface

The Alberto Mendelzon Workshop is an international scientific venue started in 2006 to honor the memory of Alberto Mendelzon, who made a significant contribution to the field of data management. It has been an established forum for top-quality research on the foundations of data management. While focused especially on Latin American students and scholars, the workshop is open to submissions from around the world, and it has so far gathered some of the world's best researchers in the field.

This volume contains papers accepted for the 12th edition of the AMW, held in Cali, Colombia, from May 23 to 25, 2018. As in previous editions, the call for papers of this edition solicited two types of submissions: regular and short papers, where the latter was intended to present ongoing research, results published elsewhere, and applications. The workshop received 37 submissions from around the globe. The vast majority of these submissions were of high quality and reported on intriguing on-going or latest research development on diverse data management topics. Following a rigorous reviewing effort, whereby each submission has been allocated at least three reviewers, the program committee accepted 29 papers to form an excellent workshop program with five sessions: data analytics, reasoning, query answering, and incomplete and probabilistic databases. Each accepted paper has a presentation slot at the workshop and may appear in the workshop proceedings. The paper presentations were accompanied by four keynote sessions, featuring Miriam Fernandez (Open University, UK) on AI for policing, Hung Q. Ngo (RelationalAI Inc, USA) on worst-case optimal join algorithms, Pablo Barceló (University of Chile, Chile) on reverse engineering problems for database query languages, and Vanessa Murdock (Amazon, USA) on large-scale analysis of user engagement.

As in previous editions, AMW 2018 hosted the Alberto Mendelzon Workshop School (AMWS), which consists of four three-hour tutorials given by invited international speakers. The school was held before AMW, on May 21 - 22, 2018. This year's tutorials were on: information visualization and visual analytics by Denis Para (Pontificia Universidad Católica de Chile, Chile); mining social media data by Miriam Fernandez (Open University, UK); the Bitcoin protocol by Martín Ugarte (Free University of Brussels, Belgium); and data quality by Fei Chiang and Mostafa Milani (McMaster University, Canada).

We would like to warmly thank: the authors of the submitted papers; the presenters at the workshop; the keynote speakers; Juan Sequeda (Capsenta, USA), the General Chair of AMW 2018; the fantastic and professional Program Committee; the AMW School Committee; the AMW Steering Committee; and the local organizers and local supporting institutions. Without their effort, AMW 2018 would not have been successful. We are keenly looking forward to the next editions of the Alberto Mendelzon Workshop!

Cali, May 2018

Dan Olteanu (University of Oxford, UK) and Barbara Poblete (University of Chile, Chile), AMW 2018 Program Committee co-chairs