

Preface

It is with deep satisfaction that we write this foreword for the Proceedings of the 1st International Data Science Conference (iDSC) held in Salzburg, Austria, June 12th - 13th 2017. The conference program and the resulting proceedings represent the efforts of many people. We want to express our gratitude towards the members of our program committee as well as towards our external reviewers for their hard work during the reviewing process.

iDSC proofed itself as an innovative conference, which gave its participants the opportunity to delve into state-of-the-art research and best practice in the fields of Data Science and data-driven business concepts. Our research track offered a series of presentations by Data Science researchers regarding their current work in the fields of Data Mining, Machine Learning, Data Management, and the entire spectrum of Data Science.

In our industry track, practitioners demonstrated showcases of data-driven business concepts and how they use Data Science to achieve organisational goals, with a focus on manufacturing, retail, and financial services. Within each of these areas, experts described their experience, demonstrated their practical solutions, and provided an outlook into the future of Data Science in the business domain.

Besides these two parallel tracks, a European symposium on Text and Data Mining has been integrated into the conference. This symposium highlighted the EU project FutureTDM, granting insights into the future of Text and Data Mining, and introducing overarching policy recommendations and sector-specific guidelines to help stakeholders overcome the legal and technical barriers, as well the lack of skills that have been identified.

Our sponsors had their own, special platform via workshops to provide hands-on interaction with tools or to learn approaches towards concrete solutions. In addition, an exhibition of products and services offered by our sponsors took place throughout the conference, with the opportunity for our participants to seek contact and advice.

Completing the picture of our program, we proudly presented keynote presentations from leaders in Data Science and data-driven business, both researchers and practitioners. These keynotes provided all participants the opportunity to come together and shared views on challenges and trends in Data Science.

In addition to the contributed papers, five invited keynote presentations were given by: Euro Beinat (CS Research, Salzburg University), Mario Meir-Huber (Microsoft Austria), Mike Olson (Cloudera), Ralf Klinkenberg (RapidMiner) and Janek Strycharz (Digital Center Poland). We thank the invited speakers for sharing their insights with our community.

The conference chair John Thompson has also helped us in many ways setting up the industry track, for which we are grateful. We would especially like to thank our two colleagues, Astrid Karnutsch and Maximilian Tschuchnig, for their enormous and constructive commitment to organizing and conducting the conference. The paper submission and reviewing process was managed using the EasyChair system.

These proceedings will provide scientists and practitioners with an excellent reference to current activities in the Data Science domain. We trust also that this will be an impetus to stimulate further studies, research activities and applications in all discussed areas ensured by the support of our publisher Springer / Vieweg Wiesbaden Germany.

Finally, again, the conference would not be possible without the excellent papers contributed by our authors. We thank them for their contributions and their participation at iDSC'17.

Peter Haber, Thomas Lampoltshammer and Manfred Mayr

Conference Chairs

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