Preface

This volume contains the proceedings of the LWDA 2018 conference held on August 22-24, 2018, in Mannheim, Germany.

The LWDA conference, which expands to "Lernen, Wissen, Daten, Analysen" ("Learning, Knowledge, Data, Analytics"), covers recent research in areas such as knowledge discovery, machine learning & data mining, knowledge management, database management & information systems, information retrieval. The conference brings together the various special interest groups of the Gesellschaft für Informatik (German Computer Science Society) in these areas. It provides a joint forum for experienced and young researchers to share insights into recent trends, technologies and applications and to promote interaction across various research disciplines and communities.

LWDA 2018 comprised of the following workshops, each organized by the respective special interest group:

- Workshop on "Information Retrieval" (FGIR 2018)

- Workshop on "Knowledge Management" (FGWM 2018)

- Workshop on "Knowledge Discovery, Data Mining and Machine Learning" (KDML 2018)

- Workshop on "Business Intelligence" (WSBI 2018)

- Workshop on "Large-Scale Data Management and Processing - Applications in Research and Industry" (FGDB 2018)

The papers published in the LWDA 2018 proceedings have been selected by independent program committees from the respective workshops. Overall, we received 67 submissions this year, out of which 42 were accepted for presentation.

The LWDA program consisted of four invited keynotes, two joint research sessions, as well as individual sessions and community meetings of each special interest group. Moreover, a joint poster session gave all presenters the opportunity to discuss their work. Our distinguished keynote speakers were:

- Kerstin Bach (NTNU Trondheim)

- Frank Giesler (Vice President, Capgemini Consulting)

- Stephan Mandt (Disney Research)

- Daniela Nicklas (Otto-Friedrich-Universität Bamberg)

It has been an honor for the Data and Web Science Group of the University of Mannheim to organize and host the LWDA 2018 conference. The organizers would like to thank the workshop chairs and their program committees for their hard work as well as the keynote speakers for their inspiring talks. Moreover, LWDA 2018 would not have been possible without the great support of our sponsors:

- BridgingIT GmbH

- Fraunhofer-Institut für Intelligente Analyse- und Informationssysteme (IAIS)

- German Management Consulting GmbH

- Institut für Enterprise Systems (InES)

- mayato GmbH

- MVV Energie AG

- Schönhofer Sales and Engineering GmbH

We are looking forward to LWDA 2019!

August 22, 2018   Rainer Gemulla (general chair)
Mannheim   Simone Paolo Ponzetto (program chair)
                                                            Christian Bizer (local chair)
                                                        Margret Keuper (publicity chair)
                                                  Heiner Stuckenschmidt (financial chair)