

Preface

The tenth event of the International Conference on Machine Learning and Data Mining MLDM 2015 was held in Hamburg (www.mldm.de) running under the umbrella of the World Congress “The Frontiers in Intelligent Data and Signal Analysis, DSA2015” (www.worldcongressdsa.com).

For this edition the Program Committee received 123 submissions. After the peer-review process, we accepted 41 high-quality papers for oral presentation; from these, 40 are included in this proceedings volume. The topics range from theoretical topics for classification, clustering, association rule and pattern mining to specific data-mining methods for the different multimedia data types such as image mining, text mining, video mining, and Web mining. Extended versions of selected papers will appear in the international journal *Transactions on Machine Learning and Data Mining* (www.ibai-publishing.org/journal/mldm).

A tutorial on Data Mining, a tutorial on Case-Based Reasoning, a tutorial on Intelligent Image Interpretation and Computer Vision in Medicine, Biotechnology, Chemistry and Food Industry, a tutorial on Standardization in Immunofluorescence, and a tutorial on Big Data and Text Analysis were held before the conference.

We were pleased to give out the best paper award for MLDM for the fourth time this year. There are four announcements mentioned at www.mldm.de. The final decision was made by the Best Paper Award Committee based on the presentation by the authors and the discussion with the auditorium. The ceremony took place during the banquet. This prize is sponsored by ibai solutions (www.ibai-solutions.de), one of the leading companies in data mining for marketing, Web mining, and e-commerce.

The conference was rounded up by an outlook of new challenging topics in machine learning and data mining before the Best Paper Award ceremony.

We would like to thank all reviewers for their highly professional work and their effort in reviewing the papers. We would also thank members of the Institute of Applied Computer Sciences, Leipzig, Germany (www.ibai-institut.de), who handled the conference as secretariat. We appreciate the help and understanding of the editorial staff at Springer, and in particular Alfred Hofmann, who supported the publication of these proceedings in the LNAI series.

Last, but not least, we wish to thank all the speakers and participants who contributed to the success of the conference. See you in 2016 in New York at the next World Congress (www.worldcongressdsa.com) on “The Frontiers in Intelligent Data and Signal Analysis, DSA2016,” which combines under its roof the following three events: International Conference on Machine Learning and Data Mining, MLDM, the Industrial Conference on Data Mining, ICDM, and the International Conference on Mass Data Analysis of Signals and Images in Medicine, Biotechnology, Chemistry and Food Industry, MDA.

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