

Preface

The fifteenth event of the Industrial Conference on Data Mining ICDM was held in Hamburg (www.data-mining-forum.de) running under the umbrella of the World Congress on “The Frontiers in Intelligent Data and Signal Analysis, DSA 2015” (www.worldcongressdsa.com).

After the peer-review process, we accepted 16 high-quality papers for oral presentation. The topics range from theoretical aspects of data mining to applications of data mining, such as in multimedia data, in marketing, in medicine and agriculture, and in process control, industry, and society. Extended versions of selected papers will appear in the international journal *Transactions on Machine Learning and Data Mining* (www.ibai-publishing.org/journal/mldm).

In all, ten papers were selected for poster presentations and six for industry paper presentations, which are published in the ICDM Poster and Industry Proceeding by ibai-publishing (www.ibai-publishing.org).

In conjunction with ICDM, three workshops were run focusing on special hot application-oriented topics in data mining: the Workshop on Case-Based Reasoning (CBR-MD), Data Mining in Marketing (DMM), and I-Business to Manufacturing and Life Sciences (B2ML). All workshop papers are published in the workshop proceedings by ibai-publishing house (www.ibai-publishing.org).

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, and a tutorial on Standardization in Immunofluorescence were held before the conference.

We were pleased to give out the best paper award for ICDM for the seventh time this year. There are three announcements mentioned at www.data-mining-forum.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 conference. 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.

We would like to thank all reviewers for their highly professional work and their effort in reviewing the papers.

We also thank the 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 Verlag, 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. We hope to see you in 2016 in New York at the next World Congress on “The Frontiers in Intelligent Data and Signal Analysis, DSA 2016” (www.worldcongressdsa.com), which combines under its roof the

following three events: International Conferences 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.

July 2015

Petra Pernert

Advances in Data Mining: Applications and Theoretical
Aspects

15th Industrial Conference, ICDM 2015, Hamburg,
Germany, July 11–24, 2015. Proceedings
Perner, P. (Ed.)

2015, X, 279 p. 65 illus., Softcover

ISBN: 978-3-319-20909-8