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Petra Perner
Institute of Computer Vision
and Applied Computer Sciences, IBaI
Kohlenstr. 2, 04107 Leipzig, Germany
E-mail: pperner@ibai-institut.de

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Preface

The eighth event of the International Conference on Machine Learning and Data Mining (MLDM) was held in Berlin (www.mldm.de) under the umbrella of the World Congress on "The Frontiers in Intelligent Data and Signal Analysis, DSA 2012".

For this edition the Program Committee received 212 submissions. After the peer-review process, we accepted 71 high-quality papers for oral presentation, from which 51 are included in this proceedings book. 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).

Eight papers were selected for poster presentations and are published in the *MLDM Poster Proceedings* by *ibai-publishing* (www.ibai-publishing.org).

A tutorial on Data Mining, a tutorial on Case-Based Reasoning, a tutorial on Intelligent Image Interpreation 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 the fourth time this year (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 at the end of 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.

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 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. See you in 2013 in New York to the next World Congress on "The Frontiers in Intelligent Data and Signal Analysis, DSA2013" (www.worldcongressdsa.com) will be held in New York, in 2013, combining 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 2012 Petra Perner

International Conference on Machine Learning and Data Mining, MLDM 2012

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