

# Preface

The 12th event of the International Conference on Machine Learning and Data Mining MLDM 2016 was held in New York ([www.mldm.de](http://www.mldm.de)) running under the umbrella of the World Congress “The Frontiers in Intelligent Data and Signal Analysis, DSA2016” ([www.worldcongressdsa.com](http://www.worldcongressdsa.com)).

For this edition the Program Committee received 169 submissions. After the peer-review process, we accepted 56 high-quality papers for oral presentation. 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](http://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,” and a tutorial on “Standardization in Immunofluorescence” were held before the conference.

We were pleased to give out the best paper award for MLDM for the fifth time this year. Three announcements are mentioned at [www.mldm.de](http://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](http://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 would also like to thank the members of Institute of Applied Computer Sciences, Leipzig, Germany ([www.ibai-institut.de](http://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. We hope to see you in 2017 in New York at the next World Congress ([www.worldcongressdsa.com](http://www.worldcongressdsa.com)) on “The Frontiers in Intelligent Data and Signal Analysis, DSA2017,” which combines under its roof the following three events: International Conferences 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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