

Preface

A warm welcome to you all to our 13th International Conference on Machine Learning and Cybernetics (ICMLC 2014) in Lanzhou. Since its inception in 2002, ICMLC has established itself as a leading conference for the rendezvous of machine learning and cybernetics, an important annual event for researchers and practitioners to gather together to share their important findings, exchange views, and explore collaboration opportunities. This year apart from the keynote speeches and paper presentations that help to keep us informed of the latest developments, we have prepared for the attendees various sessions and activities that cater to the needs of our up-and-coming researchers. These include free tutorials and the Lotfi Zadeh Best Paper Award. We hope you will also take advantage of the various social activities which have been organized for you to extend your network of research collaboration around the world.

The conference began with an opening ceremony and the conference program featured a welcome speech, two tutorials, two keynote speeches, and Panel Discussion presentations by local and international experts. During the three-day program, all paper presentations were given in four parallel sessions. The conference ended with a closing ceremony. The conference received more than 421 papers, each paper was carefully reviewed by the Program Committee members, and finally 45 papers were selected for this CCIS volume.

All the papers selected for this volume underwent English editing. They are classified into ten categories, i.e., classification and semi-supervised learning, clustering and kernel, application to recognition, sampling and big data, application to detection, decision tree learning, learning and adaptation, similarity and decision making, learning with uncertainty and improved learning algorithms and applications. The authors of these papers are from 11 different countries or areas. These papers may be of interest to those working in the field of machine learning and its applications.

The success of this conference would not have been possible without the great efforts of our Program Chairs, Program Committee members, reviewers, and our supporting colleagues working behind the scene. Certainly our conference could not succeed without your invaluable support. We hope you will find this conference a valuable and useful experience and your stay in Lanzhou enjoyable and memorable. We look forward to your continuing support and participation in our conferences to come.

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