Preface

MIWAI has evolved from an annual series of international workshops, which was initiated in 2007 by Mahasarakham University in Thailand as the Mahasarakham International Workshop on Artificial Intelligence. In 2011, it was renamed as the Multi-disciplinary International Workshop on Artificial Intelligence, and was for the first time held outside Thailand, in Hyderabad, India. This year, the 9th workshop in this series, MIWAI 2015, took place in Fuzhou, China during November 13–15, and was hosted by one of the biggest Chinese universities, Fuzhou University.

MIWAI covers a wide range of research areas such as cognitive science, computational philosophy, computational intelligence, computer vision, evolutionary computing, game theory, knowledge representation and reasoning, machine learning, multi-agent systems, natural language processing, pattern recognition, planning and scheduling, robotics, uncertainty in artificial intelligence and others. It also deals with applications of artificial intelligence research in domains such as bio-informatics, e-commerce, Internet of Things, knowledge management, privacy and security, recommender systems, social networks, software engineering, surveillance, telecommunications, the Web and others. Its aims are to provide a meeting place where artificial intelligence (AI) researchers and practitioners can present and discuss new research ideas and results from all fields of AI, and to promote synergies between researchers working in different countries and research fields.

MIWAI 2015 was one of the most successful workshops in this series with respect to the number and quality of submissions. It received 67 submissions from 21 different countries in Asia, Europe, America, and Oceania, and on several different topics ranging from more theoretical ones, such as cognitive science and logic-based knowledge representation, to more applied topics, such as smart health services and traffic sensing in vehicular networks. Each submission was carefully reviewed by at least two members of an international Program Committee (PC) through a double-blind review process, as well as by the chairs of the PC. From the 67 submissions, 31 were accepted as full papers (acceptance rate: 46%) and were allocated 12 pages in the proceedings. There were also 15 submissions that received positive reviews; these were accepted as short papers and were allocated eight pages in the proceedings. From the accepted papers, one full paper and three short ones were withdrawn. This volume contains the remaining 30 full and 12 short papers, presented in eight topical sections: Knowledge Representation, Reasoning, and Management; Multi-agent Systems; Data Mining and Machine Learning; Computer Vision; Robotics; AI in Bioinformatics; AI in Security and Networks; and Other AI Applications.

The technical program of MIWAI 2015 included the presentations of all accepted papers, but also two keynote talks from two prominent members of the AI community: Prof. Luc De Raedt from Katholieke Universiteit Leuven, Belgium, and Prof. Fangzhen Lin, from the Hong Kong University of Science and Technology. We would like to thank the keynote speakers for accepting our invitation and for their very interesting talks.
We also thank the authors for submitting their papers, responding to the reviewers’ comments, and abiding by our production schedule, and especially those travelling from far away to come to Fuzhou and participate in the workshop. We thank the excellent Program Committee for their hard work in reviewing the submitted papers. Their criticism and very useful comments and suggestions were instrumental in achieving a high-quality technical program and a first-class publication.

A special thanks goes to the local organizers in Fuzhou for the excellent hospitality and for making all the necessary arrangements for the workshop. Last but not least, we would like to thank our sponsors and supporters. Their contribution and support were crucial to the success of MIWAI 2015.

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