

# Preface

This volume contains papers selected for presentation at the 10th Multi-Disciplinary International Workshop on Artificial Intelligence (MIWAI) held during December 7–9, 2016 at Chiang Mai, Thailand.

The MIWAI workshop series started in 2007 in Thailand as the Mahasarakham International Workshop on Artificial Intelligence and is held every year. It has emerged as an international workshop with participants from around the world. From 2011 to 2015, MIWAI was held in Hyderabad (India), Ho Chi Minh City (Vietnam), Krabi (Thailand), Bangalore (India), and Fuzhou (China), respectively.

The MIWAI series of workshops serves as a forum for Artificial Intelligence (AI) researchers and practitioners to discuss and deliberate cutting-edge AI research. It also aims to elevate the standards of AI research by providing researchers and students with feedback from an internationally renowned Program Committee.

The workshop solicits papers from all areas of AI including cognitive science, computational intelligence, computational philosophy, game theory, machine learning, multi-agent systems, natural language, representation and reasoning, speech, vision and the Web, as well as applications of AI in big data, bioinformatics, biometrics, decision support, e-commerce, image processing, analysis and retrieval, industrial applications, knowledge management, privacy, recommender systems, security, software engineering, spam filtering, surveillance, telecommunications, and Web services. Submissions received by MIWAI 2016 were wide ranging and covered both theory and applications.

MIWAI 2016 received 50 papers from 23 countries and regions including Australia, Austria, Brunei Darussalam, Chile, China, Colombia, Germany, India, Italy, Japan, Korea, Malaysia, Serbia, Singapore, Slovakia, Sri Lanka, Sweden, Taiwan, Thailand, Turkey, UK, USA, and Vietnam. Following the success of previous MIWAI workshops, MIWAI 2016 continued the tradition of a rigorous review process. Every submission was reviewed by at least two Program Committee members and domain experts. Additional reviews were sought when necessary. Papers with conditional acceptances were reviewed by the program and general chairs before acceptance.

A total of 22 papers were accepted as regular papers with an acceptance rate of 44 %. In addition, five short papers were accepted representing work in progress, providing an opportunity for sharing valuable ideas, eliciting useful feedback on work at an early-stage, and fostering discussions and collaborations among researchers interested in the broad area of AI. Many of the papers that were excluded from the proceedings were promising, but had to be rejected to maintain the quality of the proceedings. We would like to thank all authors for their submissions. Without their contribution, this workshop would not have been possible.

We are grateful to Rina Dechter and Michael Thielscher for accepting our invitation to deliver invited talks. Special thanks are due to Antonis Bikakis for organizing a tutorial on “Semantic Web/Linked Data.” We wish to thank the members of the Steering Committee for their support, and are indebted to the Program Committee

members and external reviewers for their effort in ensuring a rich scientific program. We also thank the local organizing team from Faculty of Informatics, Mahasarakham University for their arrangement of the event.

We acknowledge the use of the EasyChair Conference System for paper submission, review, and compilation of the proceedings. We are thankful to Alfred Hofmann, Anna Kramer, and the excellent LNCS team at Springer for their support and co-operation in publishing the proceedings as a volume of the *Lecture Notes in Computer Science*.

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