

Preface

The JSAI-isAI (JSAI International Symposium on Artificial Intelligence) 2013 was the 5th international symposium on AI supported by the Japanese Society of Artificial Intelligence (JSAI). JSAI-isAI 2013 was successfully held during October 27th to 28th at Keio University in Kanagawa, Japan; 161 people from 16 countries participated. The symposium took place after the JSAI SIG joint meeting. As the total number of participants for these two co-located events was over 400, it was the second-largest JSAI event in 2013 after the JSAI annual meeting.

The JSAI-isAI 2013 included 6 workshops, where 9 invited talks and 48 papers were presented. This volume, *New Frontiers in Artificial Intelligence: JSAI-isAI 2013 Workshops*, is the post-proceedings of JSAI-isAI 2013. From 5 of the 6 workshops (LENLS10, JURISIN2013, MiMI2013, AAA2013, and DDS2013), 26 papers were carefully selected and revised according to the comments of the workshop Program Committees. About 40% of the total submissions were selected for inclusion in the conference proceedings.

- LENLS (Logic and Engineering of Natural Language Semantics) is an annual international workshop on formal semantics and pragmatics. LENLS10 was the 10th event in the series, and it focused on the formal and theoretical aspects of natural language. The workshop was chaired by Shunsuke Yatabe (West Japan Railway Company).
- JURISIN (Juris-Informatics) 2013 was the 7th event in the series, organized by Katsumi Nitta (Tokyo Institute of Technology). The purpose of this workshop was to discuss fundamental and practical issues for juris-informatics, bringing together experts from a variety of relevant backgrounds, including law, social science, information and intelligent technology, logic, and philosophy (including the area of AI and law).
- MiMI (Multimodality in Multiparty Interaction) 2013 was organized by Mayumi Bono (National Institute of Informatics) and Yasuyuki Sumi (Future University Hakodate). The topics covered in this workshop spanned interaction studies, communication studies, conversation analysis, and workplace studies, as well as their applications in other research fields.
- AAA (Argument for Agreement and Assurance) 2013 focused on the theoretical foundations of argumentation in AI, and the application of argumentation to various fields such as agreement formation and assurance. The organizers were Yoshiki Kinoshita (National Institute of Advanced Industrial Science and Technology), Kazuko Takahashi (Kwansei Gakuin University), Hiroyuki Kido (The University of Tokyo), and Kenji Taguchi (National Institute of Advanced Industrial Science and Technology).
- DDS (Data Discretization and Segmentation for Knowledge Discovery) 2013 was organized by Akihiro Yamamoto (Kyoto University), Hiroshi Sakamoto (Kyushu Institute of Technology), and Tetsuji Kuboyama (Gakushuin University). This workshop

discussed segmentation methods for various types of data, such as graphs, trees, strings, and continuous data, and their applications in the areas of machine learning and knowledge discovery.

It is our great pleasure to be able to share some highlights of these fascinating workshops in this volume. We hope this book will introduce readers to the state-of-the-art research outcomes of JSAI-isAI 2013, and motivate them to participate in future JSAI-isAI events.

April 2014

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New Frontiers in Artificial Intelligence

JSAI-isAI 2013 Workshops, LENLS, JURISIN, MiMI, AAA, and

DDS, Kanagawa, Japan, October 27-28, 2013, Revised

Selected Papers

Nakano, Y.; Satoh, K.; Bekki, D. (Eds.)

2014, XIX, 369 p. 60 illus., Softcover

ISBN: 978-3-319-10060-9