Preface

JSAI-isAI 2014 was the 6th International Symposium on Artificial Intelligence supported by the Japanese Society for Artificial Intelligence (JSAI). JSAI-isAI 2014 was successfully held during November 23–24 at Keio University in Kanagawa, Japan. In all, 98 people from 14 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 about 500, it was the second-largest JSAI event in 2014 after the JSAI annual meeting.

JSAI-isAI 2014 included three workshops, where five invited talks and 52 papers were presented. This volume, *New Frontiers in Artificial Intelligence: JSAI-isAI 2014 Workshops,* contains the proceedings of JSAI-isAI 2014. From the three workshops (LENLS11, JURISIN2014, and GABA2014), 23 papers were carefully selected and revised according to the comments of the workshop Program Committee. 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. LENLS11 was the 11th event in the series, and it focused on the formal and theoretical aspects of natural language. The workshop was chaired by Koji Mineshima (Ochanomizu University/JST CREST), Daisuke Bekki (Ochanomizu University/National Institute of Informatics/JST CREST), and Eric McCready (Aoyama Gakuin University).

JURISIN (Juris-informatics) 2014 was the eighth event in the series, organized by Satoshi Tojo (Japan Advanced Institute of Science and 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).

GABA (Graph-Based Algorithms for Big Data and Its Applications) 2014 was the first workshop on graph structures including string, tree, bipartite- and di-graph for knowledge discovery in big data. The purpose of this workshop was to discuss ideas for realizing big data integration, including algorithms with theoretical/experimental results. The workshop was chaired by Hiroshi Sakamoto (Kyushu Institute of Technology), Yoshinobu Kawahara (Osaka University), and Tetsuji Kuboyama (Gakushuin University).

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 2014, and motivate them to participate in future JSAI-isAI events.

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Tsuyoshi Murata
Koji Mineshima
Daisuke Bekki
</div>

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