Preface

This book contains the selected research papers presented at ISIP 2015, the 10th International Workshop on Information Search, Integration and Personalization. After being organized in France, Japan, Thailand, and Malaysia, this year the workshop was held in the USA, reflecting the goal of widening the audience. More precisely, the workshop took place in 2015 at the Memorial Union, University of North Dakota, Grand Forks, North Dakota (USA), during October 1–2.

Two keynote speeches were given during the workshop, one by Prof. Amy Apon — Program Director in Computing Systems Research (CSR), Directorate for Computer and Information Science and Engineering (CISE), National Science Foundation (NSF), USA and one by Don Kearney — Sr. Security Engineering Manager, Rockwell Collins, USA. There were 21 presentations of scientific papers, of which 10 were submitted for peer review. Additional invitations to contribute to the workshop proceedings resulted in five more submissions. The international Program Committee selected eight papers to be included in the proceedings.

The themes of the presented and/or submitted papers reflected today’s diversity of research topics as well as the rapid development of interdisciplinary research. With increasingly sophisticated research in science and technology, there is a growing need for interdisciplinary and international availability, distribution, and exchange of the latest research results, in organic forms, including not only research papers and multimedia documents, but also various tools developed for measurement, analysis, inference, design, planning, simulation, and production as well as the related large data sets. Similar needs are also growing for the interdisciplinary and international availability, distribution, and exchange of ideas and works among artists, musicians, designers, architects, directors, and producers. These contents, including multimedia documents, application tools, and services are being accumulated on the Web, as well as in local and global databases, at a remarkable speed that we have never experienced with other kinds of publishing media. A great amount of content is now already on the Web, waiting for its advanced personal and/or public reuse. We need new theories and technologies for the advanced information search, integration through interoperation, and personalization of Web content as well as database content.

The ISIP 2015 workshop was organized to offer a forum for presenting original work and stimulating discussions and exchanges of ideas around these themes, focusing on the following topics:

- Information search in large data sets (databases, digital libraries, data warehouses)
- Comparison of different information search technologies, approaches, and algorithms
- Novel approaches to information search
- Personalized information retrieval and personalized Web search
ISIP started as a series of Franco-Japanese workshops in 2003, and its first edition was placed under the auspices of the French embassy in Tokyo, which provided the financial support along with JSPS (Japanese Society for the Promotion of Science). Up until 2012, the workshops alternated between Japan and France, and attracted increasing interest from both countries. Then, motivated by the success of the first editions of the workshop, participants from countries other than France or Japan volunteered to organize it in their home country. The following shows the history of past ISIP workshops:

- 2003: First ISIP in Sapporo (June 30–July 2, Meme Media Lab, Hokkaido University, Japan)
- 2005: Second ISIP in Lyon (May 9–11, University Claude Bernard Lyon 1, France)
- 2007: Third ISIP in Sapporo (June 27–30, Meme Media Laboratory, Hokkaido University, Japan)
- 2008: 4th ISIP in Paris (October 6–8, Tour Montparnasse, Paris, France)
- 2009: 5th ISIP in Sapporo (July 6–8, Meme Media Laboratory, Hokkaido University, Japan)
- 2010: 6th ISIP in Lyon (October 11–13, University Claude Bernard Lyon 1, France)
- 2012: 7th ISIP in Sapporo (October 11–13, Meme Media Lab, Hokkaido University, Japan)
- 2013: 8th ISIP in Bangkok (September 16–18, Centara Grand and Bangkok Convention Centre CentralWorld Bangkok, Thailand).
- 2014: 9th ISIP in Kuala Lumpur (October 9–10, HELP University, Kuala Lumpur, Malaysia).

Originally, the workshops were intended for a Franco-Japanese audience, with the occasional invitation of researchers from other countries as keynote speakers. The proceedings of each workshop were published informally, as a technical report of the hosting institution. One exception was the 2005 workshop, selected papers of which were published by the *Journal of Intelligent Information Systems* in its special issue for ISIP 2005 (Vol. 31, Number 2, October 2008). The original goal of the ISIP workshop series was to create close synergies between a selected group of researchers from the two countries; and indeed, several collaborations, joint publications, joint student supervisions, and research projects originated from participants of the workshop.

After the first six workshops, the organizers concluded that the workshop series had reached a mature state with an increasing number of researchers participating every year. As a result, the organizers decided to open up the workshop to a larger audience by inviting speakers from over ten countries at ISIP 2012, ISIP 2013, ISIP 2014, as well as at ISIP 2015. The effort to attract an even larger international audience led to organizing the workshop in countries other than France and Japan. This will continue in the years to come. Especially during the last three years, an extensive effort was made to include in the Program Committee academics from around the globe, giving the workshop an even more international character and disseminating its information.
and results globally. We expect this to have an important effect on the participation of the workshop in the years to come.

The selected papers contained in this book are grouped into three major topics, namely, Modeling Querying and Updating of Information, Information Extraction, and Information Visualization; they span major topics in information management research, both modern and traditional.

We would like to express our appreciation to all the staff members of the organizing institution for the help, kindness, and support before, during, and after the workshop. And of course we would like to cordially thank all speakers and participants of ISIP 2015 for their intensive discussions and exchange of new ideas. This book is an outcome of those discussions and exchanged ideas.

May 2016

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Information Search, Integration, and Personalization
10th International Workshop, ISIP 2015, Grand Forks, ND, USA, October 1-2, 2015, Revised Selected Papers
Grant, E.; Kotzinos, D.; Laurent, D.; Spyratos, N.; Tanaka, Y. (Eds.)
2016, XI, 157 p. 82 illus., Softcover
ISBN: 978-3-319-43861-0