

Preface

This book contains the selected research papers presented at ISIP 2014, the ninth International Workshop on Information Search, Integration and Personalization. The workshop was held at HELP University, Kuala Lumpur, Malaysia, during October 9–10, 2014.

In addition to a keynote speech given by Professor Kimihito Ito (Hokkaido University, Sapporo, Japan), there were 19 presentations of scientific papers, of which 10 were submitted to the post-workshop peer-review process. The international Program Committee selected six papers to be included in the proceedings. This year we also had an invited paper, allowing us to extend the reach of the workshop to subjects not presented in the workshop but that are on the edge of the research area.

The themes of the presented 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. Large amounts of content are now already on the Web, waiting for their 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 2014 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
- Data analytics (data mining, data warehousing)
- Integration of Web-services, knowledge bases, digital libraries
- Federation of smart objects

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 the 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. 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 & Bangkok Convention Centre CentralWorld Bangkok, Thailand).

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, and 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, and ISIP 2014. The effort to attract an even larger international audience will continue in the years to come. This year and last year in particular, an extensive effort was made to include in the Program Committee academics coming 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 in the participation of the workshop in the years to come.

The selected papers contained in this book are grouped into three major topics, namely, information management (where the invited paper is also included), information discovery, and knowledge management applications on the web and the cloud; 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 2014 for their intensive discussions and exchange of new ideas. This book is an outcome of those discussions and exchanged ideas.

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