More information about this series at http://www.springer.com/series/7409
Preface

This volume contains the papers presented at ICADL 2015, the 2105 Asian Digital Library Conference, held during December 9–12, 2015, in Seoul, Korea. This was the 16th event in the ICADL conference series. Since its beginnings in Hong Kong in 1998, ICADL has become one of the premier international research meetings about digital libraries. The conference series explores digital libraries as a broad foundation for interaction with information and information management in a digital world. The papers for this 2015 conference cover topics such as digital preservation, gamification, text mining, citizen science, data citation, linked data, and cloud computing. Overall, there were 31 full and short papers along with 18 poster papers. In addition, these proceedings include short descriptions of the presentations from the two panel sessions: one about digital humanities and the other about eScience. The proceedings also include brief papers from students participating in the doctoral consortium.

The Conference Committee consisted of Profs. Sung Been Moon, Min Song, and Giyeong Kim in addition to Prof. Robert B. Allen all of Yonsei University. As co-chairs of the Technical Program Committee, we would especially like to thank all of the Program Committee members for their effort. We also thank Prof. Soohyun Joo of the University of Kentucky and the review committee he assembled for their exceptional effort in reviewing the posters.

We are grateful to Prof. Kiduk Yang of Kyungpook National University who organized the doctoral consortium with the support of a strong panel of faculty mentors. We further thank Prof. Kyong Eun Oh of Simmons College for her help with publicity.

Two exceptional workshops were co-located with ICADL 2015. The NKOS (Networked Knowledge Organization Systems) workshop was held on December 9. This was organized by Profs. Xia Lin, Jian Qin, and Marcia Zeng and was the first workshop in that series to be held in Asia. The CiSAP (Consortium of Information Schools Asia-Pacific) was held on December 12 with Profs. Emi Ishita and Chern Li Liew as chairs.

We gratefully acknowledge the Yonsei University Graduate School for its financial support. We would also like to thank the Yonsei Department of Library and Information Science and its students for their assistance.

November 2015

Robert B. Allen
Jane Hunter
Marcia L. Zeng
Organization

Technical Program Committee

Palakorn Achananuparp  Singapore Management University, Singapore
Robert Allen  Yonsei University, South Korea
Mauricio Almeida  Universidade Federal de Minas Gerais, Brazil
Kanwal Ameen  University of the Punjab, Pakistan
Lu An  Wuhan University, China
Tobias Blanke  University of Glasgow, UK
Shu-Juin Chen  Academia Sinica, Taiwan
Youngok Choi  Catholic University of America, USA
Sayeed Choudhury  Johns Hopkins University, USA
Gobinda Chowdhury  Northumbria University, UK
Sally Jo Cunningham  Waikato University, New Zealand
Giorgio Maria Di Nunzio  University of Padua, Italy
Ismail Fahmi  University of Groningen, The Netherlands
Myung-Ja Han  University of Illinois at Urbana-Champaign, USA
Bernhard Haslhofer  Austrian Institute of Technology, Austria
Jieh Hsiang  National Taiwan University, Taiwan
Xiao Hu  University of Hong Kong, SAR China
Jane Hunter  University of Queensland, Australia
Emi Ishita  Kyushu University, Japan
Adam Jatowt  Kyoto University, Japan
Kiran K.  University of Malaya, Malaysia
Min-Yen Kan  National University of Singapore, Singapore
Emad Khazraee  University of Pennsylvania, USA
Christopher Khoo  Nanyang Technological University, Singapore
Kyung-Sun Kim  University of Wisconsin-Madison, USA
Claus-Peter Klas  Leibniz Institute for Social Sciences, Germany
Chernli Liew  Victoria University of Wellington, New Zealand
Xia Lin  Drexel University, USA
Keven Liu  Shanghai Library, China
Devika Madalli  Indian Statistical Institute, India
Elli Mylonas  Brown University, USA
Michael Nelson  Old Dominion University, USA
Jungran Park  Drexel University, USA
Helen Partridge  Queensland University of Technology, Australia
Hsiao-Tieh Pu  National Taiwan Normal University, Taiwan
Jian Qin  Syracuse University, USA
Edie Rasmussen  University of British Columbia, Canada
Soo Young Rieh  
Laurent Romary  
Seamus Ross  
Shigeo Sugimoto  
Tamara Sumner  
Kulthida Tuamsuk  
Pertti Vakkari  
Karin Verspoor  
Yejun Wu  
Long Xiao  
Marcia Zeng

University of Michigan, USA  
Inria and HUB-ISDL, France  
University of Toronto, Canada  
University of Tsukuba, Japan  
University of Colorado at Boulder, USA  
Khon Kaen University, Thailand  
University of Tampere, Finland  
University of Melbourne, Australia  
Louisiana State University, USA  
Beijing University Library, China  
Kent State University, USA

Posters Committee

Namjoo Choi
Soohyung Joo, Chair
Youngseek Kim
Kun Lu
Jin Mao
Adam Worrall
Shuheng Wu
Seungwon Yang
Yan Zhang

University of Kentucky, USA
University of Kentucky, USA
University of Kentucky, USA
University of Oklahoma, USA
University of Arizona, USA
University of Alberta, Canada
Queens College, City University of New York, USA
Louisiana State University, USA
University of Texas at Austin, USA
Contents

Full and Short Papers

Visual Topical Analysis of Museum Collections . . . . . . . . . . . . . . . . . . . . . 1
Lu An, Liqin Zhou, Xia Lin, and Chuanming Yu

Experiments on Russian-English Identity Resolution . . . . . . . . . . . . . . . . . . . . . 12
Zinaida Apanovich and Alexander Marchuk

Exploring the Kyoto Digital Archives Project: Challenging the Funding
Model of Digital Archive Development . . . . . . . . . . . . . . . . . . . . . . . . . . . . 22
Noriko Asato and Andrew Wertheimer

Analyzing Users’ Trust for Online Health Rumors . . . . . . . . . . . . . . . . . . . . . 33
Alton Y.K. Chua and Snehasish Banerjee

Adaptive Web Crawling Through Structure-Based Link Classification . . . . . . 39
Muhammad Faheem and Pierre Senellart

Investigating the Antecedents of Playing Games for Crowdsourcing
Location-Based Content . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 52
Dion Hoe-Lian Goh, Ei Pa Pa Pe-Than, and Chei Sian Lee

Formal Acknowledgement of Citizen Scientists’ Contributions via Dynamic
Data Citations . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 64
Jane Hunter and Chih-Hsiang Hsu

Searching for Health Information Online for My Child: A Perspective
from South East Asia . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 76
Anushia Inthiran and Ireneous Soyiri

Evaluation of a General-Purpose Sentiment Lexicon on a Product Review
Corpus . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 82
Christopher S.G. Khoo, Sathik Basha Johnkhan, and Jin-Cheon Na

Exploring Context-Sensitive Query Reformulation in a Biomedical Digital
Library . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 94
Erin Hea-Jin Kim, Jung Sun Oh, and Min Song

An Approach to Document Fingerprinting . . . . . . . . . . . . . . . . . . . . . . . . . 107
Yunhyong Kim and Seamus Ross
A Linked Data Model to Aggregate Serialized Manga from Multiple Data Providers .......................................................... 120
    Senan Kiryakos and Shigeo Sugimoto

Instagram This! Sharing Photos on Instagram ................................. 132
    Chei Sian Lee, Nur Alifah Binte Abu Bakar, Raudhah Binti Muhammad Dahri, and Sei-Ching Joanna Sin

Comparing Network Structures of Different Versions of a Book: A Case Study of the Bible ........................................... 142
    Keeheon Lee

Data Transfer Between Discovery Services and Library Catalogs: A Case Study at the University of the Fraser Valley ............... 153
    Hongfei Li and Diane Cruickshank

Enhancing Subject Metadata with Automated Weighting in the Medical Domain: A Comparison of Different Measures ............. 158
    Kun Lu, Jin Mao, and Gang Li

Enhancing Digital Heritage Archives Using Gamified Annotations .... 169
    Job King'ori Maina and Hussein Suleman

AfriWeb: A Web Search Engine for a Marginalized Language .......... 180
    Nkosana Malumba, Katlego Moukangwe, and Hussein Suleman

Participatory Journalism, Blurred Boundaries: Introducing Theoretical IS Frameworks to Re-Orient Research Practices .......... 190
    Nora Martin

User Motivations for Tweeting Research Articles: A Content Analysis Approach .............................................................. 197
    Jin-Cheon Na

Xamobile: Usability Evaluation of Text Input Methods on Mobile Devices for Historical African Languages ......................... 209
    Sunkanmi Olaleye and Hussein Suleman

    Ayodeji Olojede and Hussein Suleman

Crowdsourcing a Text Corpus is not a Game ................................ 225
    Sean Packham and Hussein Suleman

Semi-automatic Metadata Generation Workflow for Developing a Continuing Education Resource Repository ..................... 235
    Jung-ran Park and Andrew Brenza
Contents XI

The Effects of Collaboration and Competition on Players’ Perceptions in Human Computation Games ........................................ 246
   Ei Pa Pa Pe-Than, Dion Hoe-Lian Goh, and Chei Sian Lee

More Than Just Black and White: A Case for Grey Literature References in Scientific Paper Information Retrieval Systems ........................................ 252
   Aravind Sesagiri Raamkumar, Schubert Foo, and Natalie Pang

A Comparison of User Engagement with the CDC Facebook Page During Health Crisis and Ordinary Periods ........................................ 258
   Sue Yeon Syn

Aesthetic Experience and Acceptance of Human Computation Games ........ 264
   Xiaohui Wang, Dion Hoe-Lian Goh, Ee-Peng Lim, and Adrian Wei Liang Vu

On-Demand Big Data Analysis in Digital Repositories: A Lightweight Approach ........................................ 274
   Zhiwu Xie, Yinlin Chen, Tingting Jiang, Julie Speer, Tyler Walters, Pablo A. Tarazaga, and Mary Kasarda

Identification of Tweets that Mention Books: An Experimental Comparison of Machine Learning Methods ........................................ 278
   Shuntaro Yada and Kyo Kageura

Posters

Mining Variations in Hangul Orthography ........................................ 289
   Juyoung An and Robert B. Allen

Development of an Imaginary Beings Knowledge Structure ....................... 291
   Wirapong Chansanam and Kulthida Tuamsuk

Semantic Knowledge Retrieval for Belief Culture ....................................... 294
   Wirapong Chansanam, Kulthida Tuamsuk, Kanyarat Kwiecien, Taneth Ruangrajitpakorn, and Thepchai Supnithi

Digital Reading Behavior of LIS Graduate Students: A Case Study at National Taiwan Normal University ........................................ 296
   Chia-Hsiang Chen and Hao-Ren Ke

Performance of a Cloud-Based Digital Library ........................................ 298
   Yinlin Chen, Edward A. Fox, and Tingting Jiang

Assisting Retrieval of Academic Papers for User’s Information Needs ............ 300
   Kosuke Furusawa, Hongjun Fan, Yoichi Tomiura, and Emi Ishita
Evaluating Library Escape: A Prototype Information Literacy Game ........................................... 302
  Yan Ru Guo and Dion Hoe-Lian Goh

Ontology-Based Digital Humanities System for the Development of Librarianship in Taiwan ................................................................. 304
  Hao-Ren Ke, Xing-Zhi Fu, and Shun-Hong Sie

Designing Interface for Elderly Adults: Access from the Smartphone to the World .................................................. 306
  Ling-Ling Lai and Chia-Rou Lai

Investigating the Use of YouTube as a Self-Directed Learning Platform ........................................... 308
  Chei Sian Lee, Hamzah Osop, Gani Kelni, and Dion Hoe-Lian Goh

Linked Data for Professional Education (LD4PE) Project ...................................................... 311
  Sam Oh, Marcia L. Zeng, Michael Crandall, Stuart A. Sutton, and Thomas Baker

Recommender Knowledge-Based System for Research on the Development of Northeastern Thailand ...................................................... 314
  Jirapong Panawong and Kulthida Tuamsuk

Schema.org for Wikipedia’s Articles on Architecture .......................................................... 316
  Jay Park

Mining Latent Research Groups within Institutions Using an Author-Topic Model .......................................................... 318
  Takeshi Shirai, Yoichi Tomiura, Shosaku Tanaka, and Ryutaro Ono

E-Government in Kazakhstan as a Segment of a Semantic Digital Library ...................................................... 320
  Gulmira S. Sultanbaeva, Nurgul P. Saparkhojayeva, and Elmira S. Sultanbayeva

Study of Color Universal Design in Digital Games .......................................................... 322
  Kazuya Takemata, Tsubasa Takeda, Misa Tanaka, and Akiyuki Minamide

Staff Development of Academic Librarians to Improve Information Literacy Education in the Digital Age ...................................................... 324
  Yukiko Watanabe and Kenshi Hyodo

A Window of Opportunity to Create a Portal to Digital Libraries and Digital Archives in Hawai’i .......................................................... 326
  Andrew B. Wertheimer

Extracting Structure from Scientific Abstracts Using Neural Networks ........................................... 329
  Paul Willot, Kazuhiro Hattori, and Akiko Aizawa
A Survey and a Comparative Study of Natural Disaster Taxonomies of Current Practice .................................................. 331

Li Yang and Yejun Wu

Digital Humanities and eScience Panels

eScience and Living Analytics ........................................... 334

Palakorn Achananuparp

Linking Digital Art History Content to the Web of Data: From Online Exhibitions to Linked Taiwan Artists. .............................. 336

Shu-Jiun Chen

Modeling Digital Literary Texts “Literally” ......................... 338

Wayne de Fremery

Digital Archives and Digital Methods: A Indonesian Case Study ........ 340

Miguel Escobar Varela

Sharing Scientific Literature, Ontologies, Databases and Annotations for Open Science ................................................... 342

Jin-Dong Kim

Digital Humanities Research at Khon Kaen University, Thailand .......... 344

Kulthida Tuamsuk

Exploring Smart Data Approaches to the History of Innovation and Invention at Liquid Crystal Institute at Kent State University .......... 346

Marcia L. Zeng, Yin Zhang, Hongshan Li, and Serhiy Polyakov

Doctoral Consortium

Development of a Semantic Digital Library of Knowledge on Ethnic Groups in Thailand .................................................. 348

Juthatip Chaikhambung and Kulthida Tuamsuk

Digital News Story Preservation Framework .......................... 350

Muzammil Khan and Arif Ur Rahman

Information Exchanged in Mentoring Between Faculty Advisors and Their Doctoral Students .......................................... 352

Jongwook Lee

Business Ontology Model for Community Enterprise of Thai Local Wisdom ................................................................. 354

Chitlada Prommakorn, Kulthida Tuamsuk, and Kanyarat Kwiecien
Contents

Development of 3D Virtual Museum for Ban Chiang Masterpiece of Pottery. ................................................................. 356
  Teerapol Suebchompu, Kulthida Tuamsuk, and Kanyarat Kwiecien

Knowledge Representation of Social Science Research Data for Data Curation and Reuse ................................................... 358
  Guangyuan Sun and Christopher S.G. Khoo

Author Index ........................................................................................................................................ 361