Atsuyuki Morishima · Andreas Rauber Chern Li Liew (Eds.)

Digital Libraries: Knowledge, Information, and Data in an Open Access Society

18th International Conference on Asia-Pacific Digital Libraries, ICADL 2016 Tsukuba, Japan, December 7–9, 2016 Proceedings



Contents

Community and Digital Libraries

| When Personal Data Becomes Open Data: An Exploration of Lifelogging, User Privacy, and Implications for Privacy Literacy | 2 |
|--|----|
| Zablon Pingo and Bhuva Narayan | 3 |
| The Value of Public Libraries During a Major Flooding: How Digital Resources Can Enhance Health and Disaster Preparedness in Local | |
| Communities | 10 |
| Current Situation and Countermeasures of the Legal Protection of Digital | |
| Archives User's Privacy in China Jing Zhang and Jiaping Lin | 16 |
| Involving Source Communities in the Digitization and Preservation of | |
| Indigenous Knowledge Eric Boamah and Chern Li Liew | 21 |
| Students and Their Videos: Implications for a Video Digital Library Sally Jo Cunningham, David M. Nichols, and Judy Bowen | 37 |
| Digital Library Design | |
| Supporting Gender-Neutral Digital Library Creation: A Case Study Using | |
| the GenderMag Toolkit | 45 |
| Developing Institutional Research Data Repository: A Case Study Zhiwu Xie, Julie Speer, Yinlin Chen, Tingting Jiang, Collin Brittle, and Paul Mather | 51 |
| Cultural Digital Map Prototype of Tourist Attractions in NirasSuphan Written by SunthonPhu, Poet of Thailand | 57 |
| The Rise and Fall of the <i>Wonder Okinawa</i> Digital Archive: Comparing Japanese and American Conceptualizations of Digital Archives | 63 |

| Toward Access to Multi-Perspective Archival Spoken Word Content Douglas W. Oard, John H.L. Hansen, Abhijeet Sangawan, Bryan Toth, Lakshmish Kaushik, and Chengzhu Yu | 77 |
|--|-----|
| Information Access Design and User Experience | |
| Rarity-Oriented Information Retrieval: Social Bookmarking vs. Word Co-occurrence | 85 |
| Proposing a Scientific Paper Retrieval and Recommender Framework Aravind Sesagiri Raamkumar, Schubert Foo, and Natalie Pang | 92 |
| Investigating the Use of a Mobile Crowdsourcing Application for Public Engagement in a Smart City <i>Chei Sian Lee, Vishwaraj Anand, Feng Han, Xiaoyu Kong,</i> <i>and Dion Hoe-Lian Goh</i> | 98 |
| User Testing of Prototype Systems in Two Different Environments: Preliminary Results | 104 |
| Finding "Similar but Different" Documents Based on Coordinate Relationship | 110 |
| Information Extraction and Analysis | |
| Rule-Based Page Segmentation for Palm Leaf Manuscript on Color Image Papangkorn Inkeaw, Jakramate Bootkrajang, Phasit Charoenkwan, Sanparith Marukatat, Shinn-Ying Ho, and Jeerayut Chaijaruwanich | 127 |
| Exploiting Synonymy and Hypernymy to Learn Efficient Meaning Representations Thomas Perianin, Hajime Senuma, and Akiko Aizawa | 137 |
| Entity Linking for Mathematical Expressions in Scientific Documents Giovanni Yoko Kristianto, Goran Topić, and Akiko Aizawa | 144 |

| Improved Identification of Tweets that Mention Books: Selection of | |
|--|-----|
| Effective Features | 150 |
| A Visualization of Relationships Among Papers Using Citation | |

| | | + | 0 | 1 | 0 | |
|-----------------|---------------|-----------|------|---------|-----------|---------|
| and Co-citation | 1 Information | | | | | 157 |
| Yu Nakano, | Toshiyuki Shi | mizu, and | ł Ma | satoshi | Yoshikawa | |

Education and Digital Literacy

| A Lecture Slide Reconstruction System Based on Expertise Extraction for | 4.68 |
|---|------|
| e-Learning | 167 |
| Developing a Mobile Learning Application with LIS Discipline Ontology Chao-Chen Chen, Wei-Chung Cheng, and Yi-Ting Yang | 180 |
| Heuristic Evaluation of an Information Literacy Game | 188 |
| Models and Guidelines | |
| Guideline for Digital Curation for the Princess Maha Chakri Sirindhorn Anthropology Centre's Digital Repository: Preliminary Outcome Sittisak Rungcharoensuksri | 203 |
| Describing Scholarly Information Resources with a Unified Temporal Map Robert B. Allen, Hanna Song, Bo Eun Lee, and Jiyoung Lee | 212 |
| Issues for the Direct Representation of History | 218 |
| Preserving Containers – Requirements and a Todo-List | 225 |
| Development of Imaginary Beings Ontology Wirapong Chansanam and Kulthida Tuamsuk | 231 |
| Open Access and Data | |
| MathDL: A Digital Library of Mathematics Questions Chu Keong Lee, Joan Jee Foon Wee, and Don Tze Wai Chai | 245 |
| Interleaving Clustering of Classes and Properties for Disambiguating Linked Data | 251 |
| A Framework for Linking RDF Datasets for Thailand Open Government Data Based on Semantic Type Detection Pattama Krataithong, Marut Buranarach, Nattanont Hongwarittorrn, and Thepchai Supnithi | 257 |
| An Attempt to Promote Open Data for Digital Humanities in Japanese | |

 An Attempt to Promote Open Data for Digital Humanities in Japanese

 University Libraries.
 269

 Emi Ishita, Tetsuya Nakatoh, Kohei Hatano, and Michiaki Takayama

| Redesigning the Open-Access Institutional Repository: A User Experience | |
|---|-----|
| Approach | 275 |
| Edward Luca and Bhuva Narayan | |

Opinion, Sentiment and Location

| Expanding Sentiment Lexicon with Multi-word Terms for Domain-Specific Sentiment Analysis | 285 |
|--|-----|
| Sang-Sang Tan and Jin-Cheon Na | |
| Twitter User Classification with Posting Locations Naoto Takeda and Yohei Seki | 297 |
| Temporal Analysis of Comparative Opinion Mining | 311 |

Social Media

| Social Q&A Question-and-Comments Interactions and Outcomes: A Social Sequence Analysis Sei-Ching Joanna Sin, Chei Sian Lee, and Yin-Leng Theng | 325 |
|--|-----|
| Why Do People View Photographs on Instagram? Chei Sian Lee and Sei-Ching Joanna Sin | 339 |
| Sharing Brings Happiness?: Effects of Sharing in Social Media Among Adult Users | 351 |

Analyzing and Using Wikipedia

| DOI Links on Wikipedia: Analyses of English, Japanese, and Chinese Wikipedias Jiro Kikkawa, Masao Takaku, and Fuyuki Yoshikane | 369 |
|--|-----|
| Cross-Modal Search on Social Networking Systems by Exploring Wikipedia Concepts | 381 |
| Suggesting Specific Segments as Link Targets in Wikipedia | 394 |
| Author Index | 407 |