

# Table of Contents

## Keynote and Invited Talks

The Age of Content and Knowledge Processing .....	1
<i>Makoto Nagao</i>	
Cyber Science Infrastructure and Scholarly Information for the Promotion of e-Science in Japan .....	2
<i>Jun Adachi</i>	
Working Together in Developing Library and Information Science Education in the Asia Pacific .....	4
<i>Schubert Foo, Christopher S.G. Khoo, Abdus Sattar Chaudhry, Shaheen Majid</i>	

## Advanced Digital Archives

Annotating the Web Archives – An Exploration of Web Archives Cataloging and Semantic Web .....	12
<i>Paul H.J. Wu, Adrian K.H. Heok, Ichsan P. Tamsir</i>	
Owlery: A Flexible Content Management System for “Growing Metadata” of Cultural Heritage Objects and Its Educational Use in the CEAX Project .....	22
<i>Kenro Aihara, Taizo Yamada, Noriko Kando, Satoko Fujisawa, Yusuke Uehara, Takayuki Baba, Shigemi Nagata, Takashi Tojo, Tetsuhiko Awaji, Jun Adachi</i>	
A Digital Library for Preservation of Folklore Crafts, Skills, and Rituals and Its Role in Folklore Education .....	32
<i>Yung-Fu Chen, Po-Chou Chan, Kuo-Hsien Huang, Hsuan-Hung Lin</i>	
A Digital Video Archive System of NDAP Taiwan .....	42
<i>Hsiang-An Wang, Guey-Ching Chen, Chih-Yi Chiu, Jan-Ming Ho</i>	

## Digital Libraries and Learning

A Research Project to Convert Chinese Traditional Calligraphic Paintings to SCORM-Compatible E-Learning Materials .....	51
<i>Chao-chen Chen, Jian-hua Yeh, Shun-hong Sie</i>	

Interdisciplinary Curriculum Development for Digital Library Education.....	61
<i>Seungwon Yang, Edward A. Fox, Barbara M. Wildemuth, Jeffrey Pomerantz, Sanghee Oh</i>	
<b>Distributed Repositories</b>	
A Digital Resource Harvesting Approach for Distributed Heterogeneous Repositories.....	71
<i>Yang Zhao, Aironng Jiang</i>	
Parallelising Harvesting.....	81
<i>Hussein Suleman</i>	
<b>Information Extraction</b>	
Sibling Page Search by Page Examples.....	91
<i>Hiroaki Ohshima, Satoshi Oyama, Katsumi Tanaka</i>	
Contextualization of a RDF Knowledge Base in the VIKEF Project.....	101
<i>Heiko Stoermer, Ignazio Palmisano, Domenico Redavid, Luigi Iannone, Paolo Bouquet, Giovanni Semeraro</i>	
Visualizing User Communities and Usage Trends of Digital Libraries Based on User Tracking Information.....	111
<i>Seonho Kim, Subodh Lele, Sreeram Ramalingam, Edward A. Fox</i>	
Extracting Mnemonic Names of People from the Web.....	121
<i>Tomoko Hokama, Hiroyuki Kitagawa</i>	
Automatic Task Detection in the Web Logs and Analysis of Multitasking.....	131
<i>Nikolai Buzikashvili</i>	
Extracting Structured Subject Information from Digital Document Archives.....	141
<i>Jyi-Shane Liu, Ching-Ying Lee</i>	
Topic Structure Mining Using PageRank Without Hyperlinks.....	151
<i>Hiroyuki Toda, Ko Fujimura, Ryoji Kataoka, Hiroyuki Kitagawa</i>	

## Personalization for Digital Libraries

- Personalized Information Delivering Service in Blog-Like Digital Libraries ..... 163  
*Jason J. Jung*
- A Personal Ontology Model for Library Recommendation System ..... 173  
*I-En Liao, Shu-Chuan Liao, Kuo-Fong Kao, Ine-Fei Harn*
- Research and Implementation of a Personalized Recommendation System ..... 183  
*Li Dong, Yu Nie, Chunxiao Xing, Kehong Wang*

## Information Retrieval

- An Application Framework for Distributed Information Retrieval ..... 192  
*Fabio Simeoni, Leif Azzopardi, Fabio Crestani*
- A Plugin Architecture Enabling Federated Search for Digital Libraries ... 202  
*Sergey Chernov, Christian Kohlschütter, Wolfgang Nejdl*
- A User Study on Features Supporting Subjective Relevance for Information Retrieval Interfaces ..... 212  
*Shu-Shing Lee, Yin-Leng Theng, Dion Hoe-Lian Goh, Schubert Shou-Boon Foo*
- The Effect of Lexical Relationships on the Quality of Query Clusters .... 223  
*Chandrani Sinha Ray, Dion Hoe-Lian Goh, Schubert Foo*
- Query Generation Using Semantic Features ..... 234  
*Seung-Eun Shin, Young-Hoon Seo*
- Page Sets as Web Search Answers ..... 244  
*Takayuki Yumoto, Katsumi Tanaka*

## Metadata

- Applying FRBR Model as a Conceptual Model in Development of Metadata for Digitized Thai Palm Leaf Manuscripts ..... 254  
*Nisachol Chamnongsri, Lampang Manmart, Vilas Wuwongse, Elin K. Jacob*
- Management of Metadata Standards: The Case of UNIMARC ..... 264  
*Hugo Manguinhas, Nuno Freire, José Borbinha*

Taxonomy Alignment for Interoperability Between Heterogeneous  
Digital Libraries ..... 274  
*Jason J. Jung*

A Process and Tool for the Conversion of MARC Records  
to a Normalized FRBR Implementation ..... 283  
*Trond Aalberg*

## Digital Libraries and Archives Architecture

Metadata Spaces: The Concept and a Case with REPOX ..... 293  
*Nuno Freire, Hugo Manguinhas, José Borbinha*

Extending Greenstone for Institutional Repositories ..... 303  
*David Bainbridge, Wendy Osborn, Ian H. Witten,  
David M. Nichols*

A Web Archiving System of the National Library of Korea: OASIS ..... 313  
*Kyung Ho Choi, Dal Ju Jeon*

The DELOS Testbed for Choosing a Digital Preservation Strategy ..... 323  
*Stephan Strodl, Andreas Rauber, Carl Rauch, Hans Hofman,  
Franca Debole, Giuseppe Amato*

## Multimedia Resource Retrieval and Organization

Text Image Spotting Using Local Crowdedness and Hausdorff  
Distance ..... 333  
*Hwa-Jeong Son, Sang-Cheol Park, Soo-Hyung Kim, Ji-Soo Kim,  
GueeSang Lee, DeokJai Choi*

Effective Image Retrieval for the M-Learning System ..... 340  
*Eunjung Han, Anjin Park, Dongwok kyoung, HwangKyu Yang,  
Keechul Jung*

Language Translation and Media Transformation in Cross-Language  
Image Retrieval ..... 350  
*Hsin-Hsi Chen, Yih-Chen Chang*

A Surface Errors Locator System for Ancient Culture Preservation ..... 360  
*Yimin Yu, Duanqing Xu, Chun Chen, Yijun Yu, Lei Zhao*

## Organizing Knowledge

- Emotional Descriptors for Map-Based Access to Music Libraries ..... 370  
*Doris Baum, Andreas Rauber*
- Role of Naive Ontology in Search and Learn Processes for Domain  
 Novices ..... 380  
*Makiko Miwa, Noriko Kando*

## Semistructured Data/XML

- Kikori-KS: An Effective and Efficient Keyword Search System  
 for Digital Libraries in XML ..... 390  
*Toshiyuki Shimizu, Norimasa Terada, Masatoshi Yoshikawa*
- Supporting Efficient Grouping and Summary Information  
 for Semistructured Digital Libraries ..... 400  
*Minsoo Lee, Sookyung Song, Yunmi Kim, Hyoseop Shin*

## Information Seeking in Digital Archives

- Accessing Japanese Digital Libraries: Three Case Studies ..... 410  
*Maureen H. Donovan*
- Towards Ontology Enrichment with Treatment Relations Extracted  
 from Medical Abstracts ..... 419  
*Chew-Hung Lee, Jin-Cheon Na, Christopher Khoo*
- Use and Linkage of Source and Output Repositories and the  
 Expectations of the Chemistry Research Community About Their Use ... 429  
*Panayiota Polydoratou*

## Information Organization

- Functional Composition of Web Databases ..... 439  
*Masao Mori, Tetsuya Nakatoh, Sachio Hirokawa*
- Integration of Wikipedia and a Geography Digital Library ..... 449  
*Ee-Peng Lim, Zhe Wang, Darwin Sadeli, Yuanyuan Li,  
 Chew-Hung Chang, Kalyani Chatterjea, Dion Hoe-Lian Goh,  
 Yin-Leng Theng, Jun Zhang, Aixin Sun*
- Impact of Document Structure on Hierarchical Summarization ..... 459  
*Fu Lee Wang, Christopher C. Yang*

## Short Papers

Wavelet-Based Collaborative Filtering for Adapting Changes in User Behavior .....	470
<i>Hyeonjae Cheon, Hongchul Lee, Insup Um</i>	
Activity-Based Query Refinement for Context-Aware Information Retrieval .....	474
<i>Shun Hattori, Taro Tezuka, Katsumi Tanaka</i>	
Retrieval Technique with the Modern Mongolian Query on Traditional Mongolian Text .....	478
<i>Garmaabazar Khaltarkhuu, Akira Maeda</i>	
Empirical Investigation on Interface Usage of Citation Database .....	482
<i>Pei-Chun Lin, Chen-Cheng Chen</i>	
Adding SOMLib Capabilities to the Greenstone Digital Library System .....	486
<i>Rudolf Mayer, Andreas Rauber</i>	
Developing a Digital Resources Consortium for University Libraries in Bangladesh: Proposed Role of UGC .....	490
<i>Md. Nazim Uddin, M. Hossan Haider Chowdhury</i>	
Speech Audio Retrieval Using Voice Query .....	494
<i>Chotirat Ann Ratanamahatana, Phubes Tohlong</i>	
A Methodology for Retrieving SCORM-Compliant Teaching Materials on Grid Environments .....	498
<i>Wen-Chung Shih, Chao-Tung Yang, Shian-Shyong Tseng</i>	
Customising Interfaces to Service-Oriented Digital Library Systems .....	503
<i>Hussein Suleman, Kevin Feng, Gary Marsden</i>	
Understanding User Perceptions on Usefulness and Usability of an Integrated Wiki-G-Portal .....	507
<i>Yin-Leng Theng, Yuanyuan Li, Ee-Peng Lim, Zhe Wang, Dion Hoe-Lian Goh, Chew-Hung Chang, Kalyani Chatterjea, Jun Zhang</i>	
A Peer-to-Peer Approach to Collaborative Repository for Digital Libraries .....	511
<i>Jenq-Haur Wang, Hung-Chi Chang, Chih-Yuan Lin, Lee-Feng Chièn</i>	

Web Page Classification Exploiting Contents of Surrounding Pages for Building a High-Quality Homepage Collection .....	515
<i>Yuxin Wang, Keizo Oyama</i>	

Managing and Querying of Videos by Semantics in Digital Library – A Semantic Model SemTTE and Its XML-Based Implementation .....	519
<i>Yu Wang, Chunxiao Xing, Lizhu Zhou</i>	

RDF/XTM Ontology Construction Based on a Topic Maps-Driven Framework .....	523
<i>Cheng-Zen Yang, Ing-Xiang Chen, Chun-Hua Chou, Meng-Chia Yang</i>	

## Poster Papers

Building an Arabic Digital Collection: The IIUM Library's Experience .....	527
<i>Sarifah binti Abdullah</i>	

Access to E-Journals: Need and Impact of Users Training .....	529
<i>Prakash Chand, P. Nishy, G. Mahesh</i>	

Reskilling Staff for Digital Libraries .....	531
<i>Naicheng Chang, Alan Hopkinson</i>	

Institutional Repositories in India: A Case Study of National Aerospace Laboratories.....	533
<i>Poornima Narayana, Balabhim Shankarappa Biradar, Ishwar R. Nagana Goudar</i>	

The Digital Divide in Developing Countries: With Special Reference to Bangladesh .....	535
<i>Md. Anisur Rahman, Mahmudun Nahar, Md. Azharul Islam, Razina Akhter</i>	

The Design and Implementation of Chinese Rural Studies Database .....	537
<i>Jianhua Wu, Fang Lin, Haiyan Chen, Xian Zhang, Jing Wang, Li Li</i>	

## National and Regional Projects on Digital Libraries and Archives

Digital Library Service of the National Diet Library .....	539
<i>Toshiyasu Oba</i>	

XVIII Table of Contents

Institutional Repositories in Japan .....	540
<i>Yuko Murakami, Jun Adachi</i>	
Introduction to the National Archives of Japan Digital Archive Service .....	550
<i>Shohei Muta</i>	
The Development of Digital Library Projects in Taiwan .....	556
<i>Hsueh-hua Chen</i>	
Kyoto International Manga Museum .....	559
<i>Masaharu Sekiguchi</i>	
Building the National Digital Library of China for Global Users.....	561
<i>Qi Xin, Sun Wei</i>	
<b>Author Index</b> .....	<b>569</b>