

LNCS 4312

Shigeo Sugimoto  
Jane Hunter  
Andreas Rauber  
Atsuyuki Morishima (Eds.)

# Digital Libraries: Achievements, Challenges and Opportunities

9th International Conference on  
Asian Digital Libraries, ICADL 2006  
Kyoto, Japan, November 2006, Proceedings



Springer

G251.6  
068

8961783



# ORGANISATION UND BIBLIOTHEKSARBEIT

Sozialwissenschaftliche und  
betriebswirtschaftliche Perspektiven  
in ausgewählten Beiträgen

Herausgegeben von  
Tibor Süle und Ellen Branthin



E8961783

ISBN 3-81008-118-9

2. Auflage

Berlin, November 1978

Ausgabe

Deutscher Bibliotheksverband –  
– Publikationsabteilung –

Fachpublizistischer Betrieb 3

Telefon 030 88 05 45

Direktor: Dr. Heinz-Joachim Giese. Herausgeber: Dr. Werner Giese

Im Auftrag des  
DEUTSCHEN BIBLIOTHEKSINSTITUTS  
veröffentlicht von

dbv

Deutscher Bibliotheksverband  
– Publikationsabteilung –  
Berlin 1978

Volume Editors

Shigeo Sugimoto  
Research Center for Knowledge Communities  
University of Tsukuba  
Ibaraki 305-8550, Japan  
E-mail: sugimoto@slis.tsukuba.ac.jp

Jane Hunter  
School of Information Technology and Electrical Engineering  
The University of Queensland QLD  
4072, Australia  
E-mail: jane@itee.uq.edu.au

Andreas Rauber  
Department of Software Technology and Interactive Systems  
Vienna University of Technology  
Vienna, Austria  
E-mail: rauber@ifs.tuwien.ac.at

Atsuyuki Morishima  
Research Center for Knowledge Communities  
University of Tsukuba  
Ibaraki 305-8550, Japan  
E-mail: mori@slis.tsukuba.ac.jp

Library of Congress Control Number: 2006936076

CR Subject Classification (1998): H.3, H.2, H.4.3, H.5, J.7, D.2, J.1, I.7

LNCS Sublibrary: SL 3 – Information Systems and Application, incl. Internet/Web and HCI

ISSN 0302-9743  
ISBN-10 3-540-49375-1 Springer Berlin Heidelberg New York  
ISBN-13 978-3-540-49375-4 Springer Berlin Heidelberg New York

This work is subject to copyright. All rights are reserved, whether the whole or part of the material is concerned, specifically the rights of translation, reprinting, re-use of illustrations, recitation, broadcasting, reproduction on microfilms or in any other way, and storage in data banks. Duplication of this publication or parts thereof is permitted only under the provisions of the German Copyright Law of September 9, 1965, in its current version, and permission for use must always be obtained from Springer. Violations are liable to prosecution under the German Copyright Law.

Springer is a part of Springer Science+Business Media  
[springer.com](http://springer.com)

© Springer-Verlag Berlin Heidelberg 2006  
Printed in Germany

Typesetting: Camera-ready by author, data conversion by Scientific Publishing Services, Chennai, India  
Printed on acid-free paper SPIN: 11931584 06/3142 5 4 3 2 1 0

Commenced Publication in 1973

Founding and Former Series Editors:

Gerhard Goos, Juris Hartmanis, and Jan van Leeuwen

## Editorial Board

David Hutchison

*Lancaster University, UK*

Takeo Kanade

*Carnegie Mellon University, Pittsburgh, PA, USA*

Josef Kittler

*University of Surrey, Guildford, UK*

Jon M. Kleinberg

*Cornell University, Ithaca, NY, USA*

Friedemann Mattern

*ETH Zurich, Switzerland*

John C. Mitchell

*Stanford University, CA, USA*

Moni Naor

*Weizmann Institute of Science, Rehovot, Israel*

Oscar Nierstrasz

*University of Bern, Switzerland*

C. Pandu Rangan

*Indian Institute of Technology, Madras, India*

Bernhard Steffen

*University of Dortmund, Germany*

Madhu Sudan

*Massachusetts Institute of Technology, MA, USA*

Demetri Terzopoulos

*University of California, Los Angeles, CA, USA*

Doug Tygar

*University of California, Berkeley, CA, USA*

Moshe Y. Vardi

*Rice University, Houston, TX, USA*

Gerhard Weikum

*Max-Planck Institute of Computer Science, Saarbruecken, Germany*



Springer

E2007000041

## Preface

The International Conference on Asian Digital Libraries (ICADL) was born in Hong Kong in 1998 and hosted in Taipei (1999), Seoul (2000), Bangalore (2001), Singapore (2002), Kuala Lumpur (2003), Shanghai (2004) and Bangkok (2005). ICADL 2006 held in Kyoto, Japan was the 9th of the ICADL series. ICADL has been recognized as an important event for the digital library communities not only in Asia but also globally. The primary mission of ICADL, like the Joint Conference on Digital Libraries (JCDL) and European Conference on Digital Libraries (ECDL), is to serve as a forum for exchange of new advanced technologies and ideas among researchers and practitioners. In addition, ICADL as a conference based in Asia is an important event not only for people in developed countries but also in developing countries where there is large diversity in culture, language and development.

ICADL 2006 received 170 paper submissions from 23 countries. Every submission was reviewed by at least three reviewers. The Program Committee selected 46 full papers and 14 short papers based on the quality and contribution to digital library research. ICADL as well as JCDL and ECDL cover a wide range of information technologies for digital libraries as well as the human and social aspects of digital libraries. The topics of the papers in the proceedings include information extraction, information retrieval, metadata, architectures for digital libraries and archives, ontologies, information seeking, cultural heritage and e-learning.

The Program Committee accepted six papers as posters from those submitted primarily by authors from developing countries in Asia. In general, it is difficult for authors in developing countries to get their papers accepted in major digital library conferences. Through this new category in ICADL, the Program Co-chairs hope to enable Asian authors to present their works to the global community and to inform the global community of activities in Asia.

ICADL 2006 is proud of our distinguished keynote and invited speakers. Their experiences, activities and perspectives for the future are very valuable to the global digital library community. ICADL 2006 organized a special program as a showcase of national DL activities in Asia and Japan and invited several important institutions and organizations.

We would like to express our special thanks to Katsumi Tanaka and all members of the Organizing Committee of ICADL 2006. We would like to express our special thanks to Eepeng Lim, Shalini Urs, Hsinchun Chen, Ching-chih Chen, Edward A. Fox and all members of the Steering Committee of ICADL who encouraged us to organize ICADL 2006. We would like to thank our Program Committee members and reviewers for their excellent work. Last but not least,

we would like to thank all of the authors who submitted their papers to ICADL 2006.

November 2006

Shigeo Sugimoto

Jane Hunter

Andreas Rauber

Atsuyuki Morishima

# Organization

Local Organization Chair  
Program Committee Co-chairs  
Publicity Co-chairs  
Honorary Conference Chair  
General Chair  
Program Committee Co-chairs  
Finance Chair  
Publication Chair  
Publicity Co-chairs  
Local Arrangements Co-chairs  
ICADL Steering Committee Chair  
Program Committee

Makoto Nagao (NICT, Japan)

Katsumi Tanaka (Kyoto University, Japan)

Jane Hunter (University of Queensland, Australia)  
Andreas Rauber (Vienna University of Technology, Austria)  
Shigeo Sugimoto (University of Tsukuba, Japan)

Masatoshi Yoshikawa (Kyoto University, Japan)

Atsuyuki Morishima (University of Tsukuba, Japan)

Taro Tezuka (Kyoto University, Japan)  
Kenji Hatano (Doshisha University, Japan)

Satoshi Oyama (Kyoto University, Japan)  
Akira Maeda (Ritsumeikan University, Japan)

Ee-Peng Lim (NTU, Singapore)

Robert Allen (Drexel, USA)

Toshiyuki Amagasa (University of Tsukuba, Japan)

Chutiporn Anutariya (Shinawatra University, Thailand)

Thomas Baker (DCMI/University of Goettingen, Germany)

Jose Borbinha (IST/INESC-ID, Portugal)

- Christine Borgman (UCLA, USA)  
Pavel I. Braslavsky (Russian Academy of Sciences, Russia)  
Donatella Castelli (Italian National Research Council, Italy)  
Abdus Sattar Chaudhry (NTU, Singapore)  
Ching-chih Chen (Simmons College, USA)  
Hsinchun Chen (University of Arizona, USA)  
Hsueh-hua Chen (NTU, Taiwan)  
Chao-chen Chen (National Taiwan Normal University, Taiwan)  
Key-Sun Choi (KAIST, Korea)  
Gobinda Chowdhury (University of Strathclyde, UK)  
Weiguo Fan (Virginia Tech, USA)  
Schubert Foo (NTU, Singapore)  
Edward Fox (Virginia Tech, USA)  
James French (University of Virginia, USA)  
Norbert Fuhr (University of Dortmund, Germany)  
Richard K. Furuta (Texas A&M, USA)  
Wen Gao (Chinese Academy of Sciences, China)  
Dion Goh Hoe Lian (NTU, Singapore)  
Jane Greenberg (University of North Carolina, USA)  
Maruf Hasan (Shinawatra University, Thailand)  
Rachel Heery (UKOLN, UK)  
Sachio Hirokawa (Kyushu University, Japan)  
Jieh Hsiang (National Chi-nan University, Taiwan)  
Jane Hunter (University of Queensland, Australia)  
Soon J. Hyun (Information Communication University, Korea)  
Hiroshi Itsumura (Nagoya University, Japan)  
Paul Janecek (Asian Institute of Technology, Thailand)  
Peter Jacso (University of Hawaii, USA)  
Noriko Kando (NII, Japan)  
Ji-Hoon Kang (Chungnam National University, Korea)  
Sunghyuk Kim (Sookmyung Women's University, Korea)  
Hiroyuki Kitagawa (University of Tsukuba, Japan)  
Carl Lagoze (Cornell University, USA)  
Ee-Peng Lim (NTU, Singapore)  
Yan Quan Liu (Southern Connecticut State University, USA)  
Akira Maeda (Ritsumeikan University, Japan)  
Gary Marchionini (University of North Carolina, USA)  
Cliff McKnight (Loughborough University, UK)  
Makiko Miwa (NIME, Japan)  
Atsuyuki Morishima (University of Tsukuba, Japan)  
Sung Hyun Myaeng (Chungnam National University, Korea)  
Mitsuharu Nagamori (University of Tsukuba, Japan)  
Takashi Nagatsuka (Tsurumi University, Japan)  
Ekawit Nantajeewarawat (SIIT, Thailand)  
Erich Neuhold (University of Vienna, Austria)

Liddy Nevile (La Trobe University, Australia)  
 Paul Nieuwenhuysen (Vrije Universiteit Brussel, Belgium)  
 Pimrumpai Premsmit (Chulalongkorn University, Thailand)  
 Somporn Puttaphithakporn (STOU, Thailand)  
 Edie Rasmussen (UBC, Canada)  
 Andreas Rauber (Vienna University of Technology, Austria)  
 S. Sadagopan (IIIT-B, India)  
 Tetsuo Sakaguchi (University of Tsukuba, Japan)  
 Hideyasu Sasaki (Ritsumeikan University, Japan)  
 Michael Seadle (Michigan State University, USA)  
 Praditta Siripan (NSTDA, Thailand)  
 Ingeborg Solvberg (NTNU, Norway)  
 Ohm Sornil (NIDA, Thailand)  
 Shigeo Sugimoto (University of Tsukuba, Japan)  
 Atsuhiro Takasu (NII, Japan)  
 Yin-Leng Theng (NTU, Singapore)  
 Shalini Urs (University of Mysore, India)  
 Stuart Weibel (OCLC, USA)  
 Ian Witten (Waikato University, New Zealand)  
 Vilas Wuwongse (AIT, Thailand)  
 Christopher C. Yang (CUHK, Hong Kong SAR)  
 Masatoshi Yoshikawa (Kyoto University, Japan)  
 Marcia Lei Zeng (Kent State University, USA)

## External Reviewers

Ahmed Abbasi	Jiexun Li	Robert Neumayer
Aixin Sun	Julie Allinson	Ronald Schroeter
Alexander Zadorin	Kathryn Hempstalk	Saadia Malik
Claus-Peter Klas	Leonardo Candela	Siddharth Kaza
Daning Hu	Matthew Dailey	Stephan Strodl
David Bainbridge	Maxim Gubin	Tianjun Fu
David Milne	Michael Maslov	Tiziano Fagni
David Nichols	Nichalin Suakkaphong	Xin Li
Fabrizio Falchi	Olena Medelyan	
Hsin-Min Lu	Qing Li	
Ingo Frommholz	Rob Schumaker	

## Sponsoring Institutions

The 21st Century Center of Excellence Program “Informatics Research Center for Development of Knowledge Society Infrastructure,” Graduate School of Informatics, Kyoto University, Japan

Research Center for Knowledge Communities, Graduate School of Library, Information, and Media Studies, University of Tsukuba, Japan

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

## Personalization for Digital Libraries

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

## Information Retrieval

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

## Metadata

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

Taxonomy Alignment for Interoperability Between Heterogeneous Digital Libraries .....	274
<i>Jason J. Jung</i>	
A Process and Tool for the Conversion of MARC Records to a Normalized FRBR Implementation .....	283
<i>Trond Aalberg</i>	
<b>Digital Libraries and Archives Architecture</b>	
Metadata Spaces: The Concept and a Case with REPOX .....	293
<i>Nuno Freire, Hugo Manguinhas, José Borbinha</i>	
Extending Greenstone for Institutional Repositories .....	303
<i>David Bainbridge, Wendy Osborn, Ian H. Witten, David M. Nichols</i>	
A Web Archiving System of the National Library of Korea: OASIS .....	313
<i>Kyung Ho Choi, Dal Ju Jeon</i>	
The DELOS Testbed for Choosing a Digital Preservation Strategy .....	323
<i>Stephan Strodl, Andreas Rauber, Carl Rauch, Hans Hofman, Franca Debole, Giuseppe Amato</i>	
<b>Multimedia Resource Retrieval and Organization</b>	
Text Image Spotting Using Local Crowdedness and Hausdorff Distance .....	333
<i>Hwa-Jeong Son, Sang-Cheol Park, Soo-Hyung Kim, Ji-Soo Kim, GueeSang Lee, DeokJai Choi</i>	
Effective Image Retrieval for the M-Learning System .....	340
<i>Eunjung Han, Anjin Park, Dongwok kyoung, HwangKyu Yang, Keechul Jung</i>	
Language Translation and Media Transformation in Cross-Language Image Retrieval .....	350
<i>Hsin-Hsi Chen, Yih-Chen Chang</i>	
A Surface Errors Locator System for Ancient Culture Preservation .....	360
<i>Yimin Yu, Duanqing Xu, Chun Chen, Yijun Yu, Lei Zhao</i>	

## Organizing Knowledge

- Emotional Descriptors for Map-Based Access to Music Libraries ..... 370  
*Doris Baum, Andreas Rauber*

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

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

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

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

## **Poster Papers**

- Building an Arabic Digital Collection: The IIUM Library's Experience ..... 527  
*Sarifah binti Abdullah*

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

- Reskilling Staff for Digital Libraries ..... 531  
*Naicheng Chang, Alan Hopkinson*

- Institutional Repositories in India: A Case Study of National Aerospace Laboratories ..... 533  
*Poornima Narayana, Balabhima Shankarappa Biradar, Ishwar R. Nagana Goudar*

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

- The Design and Implementation of Chinese Rural Studies Database ..... 537  
*Jianhua Wu, Fang Lin, Haiyan Chen, Xian Zhang, Jing Wang, Li Li*

## **National and Regional Projects on Digital Libraries and Archives**

- Digital Library Service of the National Diet Library ..... 539  
*Toshiyasu Oba*

## 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> .....	569