

LNCS 4822

Dion Hoe-Lian Goh
Tru Hoang Cao
Ingeborg Torvik Sølvsberg
Edie Rasmussen (Eds.)

Asian Digital Libraries

Looking Back 10 Years
and Forging New Frontiers

10th International Conference on
Asian Digital Libraries, ICADL 2007
Hanoi, Vietnam, December 2007, Proceedings

9250.76-55
1832
2007

Dion Hoe-Lian Goh Tru Hoang Cao
Ingeborg Torvik Sølvsberg
Edie Rasmussen (Eds.)

Asian Digital Libraries

Looking Back 10 Years
and Forging New Frontiers

10th International Conference on
Asian Digital Libraries, ICADL 2007
Hanoi, Vietnam, December 10-13, 2007
Proceedings



 Springer



E2008000715

Volume Editors

Dion Hoe-Lian Goh
Nanyang Technological University
Wee Kim Wee School of Communication and Information
31 Nanyang Link, Singapore 637718
E-mail: ashlgoth@ntu.edu.sg

Tru Hoang Cao
Ho Chi Minh City University of Technology
Faculty of Computer Science & Engineering
268 Ly Thuong Kiet Street, District 10, Ho Chi Minh City, Vietnam
E-mail: tru@cse.hcmut.edu.vn

Ingeborg Torvik Sølberg
Norwegian University of Science and Technology (NTNU)
Department of Computer and Information Science
Sem Sælands vei 7-9, 7491 Trondheim, Norway
E-mail: ingeborg@idi.ntnu.no

Edie Rasmussen
The University of British Columbia
School of Library, Archival and Information Studies
6190 Agronomy Road, Vancouver, British Columbia, V6T 1Z3, Canada,
E-mail: edie.rasmussen@ubc.ca

Library of Congress Control Number: 2007940530

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 3-540-77093-3 Springer Berlin Heidelberg New York
ISBN-13 978-3-540-77093-0 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

© Springer-Verlag Berlin Heidelberg 2007
Printed in Germany

Typesetting: Camera-ready by author, data conversion by Scientific Publishing Services, Chennai, India
Printed on acid-free paper SPIN: 12199600 06/3180 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

Preface

The International Conference on Asian Digital Libraries (ICADL) is one of the leading international conferences in digital libraries research. The conference has come a long way since its inception in 1998 as the First Asia Digital Library Workshop held in Hong Kong. Since then, the conference has traveled across the Asian continent and has been hosted by Taiwan (ICADL 1999), Seoul, Korea (ICADL 2000), Bangalore, India (ICADL 2001), Singapore (ICADL 2002), Kuala Lumpur, Malaysia (ICADL 2003), Shanghai, China (ICADL 2004), Bangkok, Thailand (ICADL 2005), and Kyoto, Japan (ICADL 2006).

The 2007 edition of the conference marks an important milestone in the ICADL series. Into its tenth year, the conference matured into a significant gathering of practitioners, researchers, educators and policy makers from diverse disciplines sharing a common interest in advancing digital libraries research in Asia. ICADL 2007 was held in Hanoi, Vietnam during December 10–13, 2007, with the theme, “Asian Digital Libraries: Looking Back 10 Years and Forging New Frontiers.” The theme reflects upon the growth of the digital libraries community and explores new areas that the community could delve into in the coming years.

ICADL 2007 attracted 154 papers from 36 countries across Asia-Pacific and Europe. These papers were reviewed by an international Program Committee of 80 members who are established researchers in various areas in digital libraries. The size of the committee was determined by the need to ensure the acceptance of good quality papers as well as to reach out to a greater audience beyond the Asian region. Additional reviewers were also recruited to assist in the sharing of the review workload. Of the 154 submissions, 41 were accepted as full papers. A further 15 short papers and 10 posters were also accepted to provide a program that allowed for more participation and interaction within the digital libraries community. The full papers, short papers and extended abstracts of posters are included in this proceedings volume.

The conference consisted of 15 sessions across three days, divided into three parallel tracks. A diverse range of topics were presented, reflecting the conference's theme. These included information retrieval and mining, user interfaces and evaluation, information management, digital archives, multimedia digital libraries, and social media. In addition, ICADL 2007 featured three tutorials, three keynote addresses and three invited talks. The conference also featured a panel on I-Schools in the Asia-Pacific region as well as one on fostering collaboration among researchers using a speed-dating format. Also for the first time, the conference included two sessions on European digital libraries initiatives. The primary goal of these sessions was to provide a platform for digital libraries researchers in Europe to share their work with their Asian counterparts, and in the process, explore opportunities for conducting joint research.

We would like to thank everyone involved in ICADL 2007. Special thanks go to all members of the Organizing Committee for ensuring that every aspect of the conference was taken care of. We also thank the members of the Program Committee

and the additional reviewers, who worked hard at completing all their reviews promptly. The Chair of the ICADL Steering Committee, Ee-Peng Lim, and the Steering Committee members must also be thanked for their leadership and support. We acknowledge the help of the many volunteers who worked behind the scenes to make this conference a success. Finally, thanks to all the authors who submitted their camera-ready papers on time, and to all ICADL 2007 delegates for participating in the conference. We look forward to the ongoing development of the ICADL series and hope that it continues to be a platform for the exchange of significant ideas in the field of digital libraries.

October 2007

Dion Goh
Tru Cao
Ingeborg Sjølvberg
Edie Rasmussen

Conference Organization

The Tenth International Conference on Asian Digital Libraries (ICADL 2007) was hosted by the National Center for Scientific and Technological Information (NACESTI), the National Library of Vietnam (NLV), General Science Library of Ho Chi Minh City (GSL), the Library and Information Center of the Vietnam National University Hanoi (LIC/VNUH), Hanoi University of Technology (HUT), Vietnam Association on Scientific and Technological Information and Documentation (VASTID), Vietnam Library Association (VLA), Vietnam Association for Information Processing (VAIP), and other organizations.

ICADL 2007 was supported by the Ministry of Science and Technology (MOST), the Ministry of Culture and Information (MOCI), and the Ministry of Education and Training (MOET) of Vietnam.

Organizing Committee

General Chair	Ta Ba Hung, NACESTI, Vietnam
Vice Chair	Cao Minh Kiem, NACESTI, Vietnam
Program Co-chairs	Dion Goh, NTU, Singapore
	Tru Cao, HCMUT, Vietnam
	Ingeborg Sølvsberg, Norway, Norwegian University of Science and Technology, Norway
	Edie Rasmussen, University of British Columbia, Canada
Tutorial Chair	Yin-Leng Theng, Nanyang Technological University, Singapore
Publication Co-Chairs	Chu Keong Lee, Nanyang Technological University, Singapore
	Nguyen Tien Duc, National Center for Scientific and Technological Information, Vietnam
Publicity Co-chairs	Cao Minh Kiem, National Center for Scientific and Technological Information, Vietnam
	Quan Thanh Tho, Ho Chi Minh City University of Technology, Vietnam
Financial Chair	Tran Thu Lan, NACESTI, Vietnam
Local Arrangements Chair	Phung Minh Lai, NACESTI, Vietnam
Steering Committee Chair	Ee Peng Lim, NTU, Singapore

Program Committee

Akira Maeda, Ritsumeikan University, Japan
Alton Chua, Nanyang Technological University, Singapore

Anders Ardö, Lund University, Sweden
András Micsik, Hungarian Academy of Sciences, Hungary
Andreas Rauber, Vienna University of Technology, Austria
Andrew Large, McGill University, Canada
Anselmo Peñas, UNED, Spain
Atsuhiko Takasu, NII, Japan
Bao Tu Ho, JAIST, Japan
Brendan Luyt, Nanyang Technological University, Singapore
Chao-chen Chen, National Taiwan Normal University, Taiwan
Christine L. Borgman, UCLA, USA
Christopher C. Yang, CUHK, Hong Kong, SAR China
Chunxiao Xing, Tsinghua University, China
Cliff McKnight, Loughborough University, UK
Dong Thi Bich Thuy, University of Natural Sciences, Vietnam
Dongwon Lee, Pennsylvania State University, USA
Edward Fox, Virginia Tech, USA
Ekawit Nantajeewarawat, Sirindhorn International Institute of Technology, Thailand
Erich Neuhold, University of Vienna, Austria
Felisa Verdejo, National Distance Learning University, Spain
Frank Shipman, Texas A&M University, USA
Geneva Henry, Rice University, USA
George Buchanan, Swansea University, UK
Gobinda Chowdhury, University of Strathclyde, UK
Hideyasu Sasaki, Ritsumeikan University, Japan
Hiroyuki Kitagawa, University of Tsukuba, Japan
Hsinchun Chen, University of Arizona, USA
Hsin-Hsi Chen, National Taiwan University, Taiwan
Hsueh-hua Chen, National Taiwan University, Taiwan
Hussein Suleman, University of Cape Town, South Africa
Huynh Van Nam, JAIST, Japan
Ian Witten, Waikato University, New Zealand
Jamshid Beheshti, McGill University, Canada
Jane Greenberg, University of North Carolina, USA
Jean-Michael Salaun, Université de Montreal, Canada
Jianzhong Li, Harbin Institute of Technology, China
Jieh Hsiang, National Chi-nan University, Taiwan
Ji-Hoon Kang, Chungnam National University, Korea
Jin Cheon Na, Nanyang Technological University, Singapore
Jose Borbinha, IST/INESC-ID - Information Systems Group, Portugal
Julien Masanes, Bibliothèque Nationale de France, France
Julio Gonzalo, UNED, Spain
Jyi-Shane Liu, National Chengchi University, Taiwan
Liddy Nevile, La Trobe University, Australia
Makiko Miwa, National Institute of Media Education, Japan
Marcia Lei Zeng, Kent State University, USA
Maristella Agosti, University of Padova, Italy
Md Maruf Hasan, Shinawatra University, Thailand

Michael Nelson, Old Dominion University, USA
 Ming Zhang, Peking University, China
 Min-Yen Kan, National University of Singapore, Singapore
 Mitsuharu Nagamori, University of Tsukuba, Japan
 Ngoc-Thanh Nguyen, Wroclaw University of Technology, Poland
 Nguyen Ngoc Binh, Vietnam National University, Vietnam.
 Nguyen Thanh Thuy, Hanoi University of Technology, Vietnam
 Noriko Kando, NII, Japan
 Ohm Sornil, National Institute of Development Administration, Thailand
 Patrick Weiguo Fan, Virginia Polytechnic Institute and State University, USA
 Paul Nieuwenhuysen, Vrije Universiteit Brussel, Belgium
 Paul Janecek, Asian Institute of Technology, Thailand
 Pavel Braslavski, Russian Academy of Sciences, Russia
 Peter Jacso, University of Hawaii, USA
 Pimrumpai Premssmit, Chulalongkorn University, Thailand
 Praditta Siripan, National Science and Technology Development Agency, Thailand
 Pu-Jen Cheng, National Taiwan University, Taiwan
 Ray Larson, University of California, Berkeley, USA
 Richard Butterworth, Middlesex University, UK
 Richard K. Furuta, Texas A&M University, USA
 Rick Kopak, University of British Columbia, Canada
 Robert Allen, Drexel University, USA
 Rudi Schmiede, Technische Universität Darmstadt, Germany
 Sachio Hirokawa, Kyushu University, Japan
 Sally Jo Cunningham, Waikato University, New Zealand
 Schubert Foo, Nanyang Technological University, Singapore
 Shigeo Sugimoto, University of Tsukuba, Japan
 Shiyen Ou, University of Wolverhampton, UK
 Shuigeng Zhou, Fudan University, China
 Stuart Weibel, OCLC, USA
 Sung Hyon Myaeng, Information and Communications University, Korea
 Sunghyuk Kim, Sookmyung Women's University, Korea
 Takashi Nagatsuka, Tsurumi University, Japan
 Thomas Baker, Goettingen State and University Library, Germany
 Trond Aalberg, Norwegian University of Science and Technology, Norway
 Uta Priss, Napier University, UK
 Wai Yeap, Auckland University of Technology, New Zealand
 Yan Quan Liu, Southern Connecticut State University, USA
 Youngok Choi, Catholic University, USA

Steering Committee

Chair: Ee Peng Lim (NTU, Singapore)
 Shalini Urs (University of Mysore, India), (Vice-Chair)
 Hsinchin Chen (University of Arizona, USA), (Advisor)
 Ching-Chih Chen (Simmons College, USA), (Advisor)

Christopher Yang (Chinese University of Hong Kong, China)
Hsueh-Hua Chen (National Taiwan University, ROC)
Key-Sun Choi (Korean Advanced Institute of Science and Technology, Korea)
Sung Hyon Myaeng (Information and Communications University, Korea)
Schubert Foo (Nanyang Technological University, Singapore)
Zawiyah Baba (National Library of Malaysia, Malaysia)
Tengku M.T. Sembok (Universiti Kebangsaan Malaysia, Malaysia)
Zhaoneng Chen (Shanghai Jiaotong University, China)
Qihao Miao (Shanghai Library, China)
Edward Fox (Virginia Tech, USA)
Pimrumpai Premssmit (Chulalongkorn University, Thailand)
Shigeo Sugimoto (University of Tsukuba, Japan)
Katsumi Tanaka (University of Kyoto, Japan)

Sponsors

Ministry of Science & Technology of Vietnam
IEEE Technical Committee on Digital Libraries

Lecture Notes in Computer Science

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

For information about Vols. 1–4504
please contact your bookseller or Springer

Vol. 4877: C. Thanos, F. Borri, L. Candela (Eds.), *Digital Libraries: Research and Development*. XII, 350 pages. 2007.

Vol. 4872: D. Mery, L. Rueda (Eds.), *Advances in Image and Video Technology*. XXI, 961 pages. 2007.

Vol. 4871: M. Cavazza, S. Donikian (Eds.), *Virtual Storytelling*. XIII, 219 pages. 2007.

Vol. 4857: J.M. Ware, G.E. Taylor (Eds.), *Web and Wireless Geographical Information Systems*. XI, 293 pages. 2007.

Vol. 4853: F. Fonseca, M.A. Rodríguez, S. Levashkin (Eds.), *GeoSpatial Semantics*. X, 289 pages. 2007.

Vol. 4836: H. Ichikawa, W.-D. Cho, I. Satoh, H.Y. Youn (Eds.), *Ubiquitous Computing Systems*. XIII, 307 pages. 2007.

Vol. 4832: M. Weske, M.-S. Hacid, C. Godart (Eds.), *Web Information Systems Engineering – WISE 2007 Workshops*. XV, 518 pages. 2007.

Vol. 4831: B. Benatallah, F. Casati, D. Georgakopoulos, C. Bartolini, W. Sadiq, C. Godart (Eds.), *Web Information Systems Engineering – WISE 2007*. XVI, 675 pages. 2007.

Vol. 4825: K. Aberer, K.-S. Choi, N. Noy, D. Allemang, K.-I. Lee, L. Nixon, J. Golbeck, P. Mika, D. Maynard, R. Mizoguchi, G. Schreiber, P. Cudré-Mauroux (Eds.), *The Semantic Web*. XXVII, 973 pages. 2007.

Vol. 4822: D.H.-L. Goh, T.H. Cao, I.T. Sølvyberg, E. Rasmussen (Eds.), *Asian Digital Libraries*. XVII, 519 pages. 2007.

Vol. 4816: B. Falcidieno, M. Spagnuolo, Y. Avrithis, I. Kompatsiaris, P. Buitelaar (Eds.), *Semantic Multimedia*. XII, 306 pages. 2007.

Vol. 4813: I. Oakley, S. Brewster (Eds.), *Haptic and Audio Interaction Design*. XIV, 145 pages. 2007.

Vol. 4808: T.-W. Kuo, E. Sha, M. Guo, L.T. Yang, Z. Shao (Eds.), *Embedded and Ubiquitous Computing*. XXI, 769 pages. 2007.

Vol. 4806: R. Meersman, Z. Tari, P. Herrero (Eds.), *On the Move to Meaningful Internet Systems 2007: OTM 2007 Workshops, Part II*. XXXIV, 611 pages. 2007.

Vol. 4805: R. Meersman, Z. Tari, P. Herrero (Eds.), *On the Move to Meaningful Internet Systems 2007: OTM 2007 Workshops, Part I*. XXXIV, 757 pages. 2007.

Vol. 4804: R. Meersman, Z. Tari (Eds.), *On the Move to Meaningful Internet Systems 2007: CoopIS, DOA, ODBASE, GADA, and IS, Part II*. XXIX, 683 pages. 2007.

Vol. 4803: R. Meersman, Z. Tari (Eds.), *On the Move to Meaningful Internet Systems 2007: CoopIS, DOA, ODBASE, GADA, and IS, Part I*. XXIX, 1173 pages. 2007.

Vol. 4802: J.-L. Hainaut, E.A. Rundensteiner, M. Kirchberg, M. Bertolotto, M. Brochhausen, Y.-P.P. Chen, S.S.-S. Cherfi, M. Doerr, H. Han, S. Hartmann, J. Parsons, G. Poels, C. Rolland, J. Trujillo, E. Yu, E. Zimányi (Eds.), *Advances in Conceptual Modeling – Foundations and Applications*. XIX, 420 pages. 2007.

Vol. 4801: C. Parent, K.-D. Schewe, V.C. Storey, B. Thalheim (Eds.), *Conceptual Modeling – ER 2007*. XVI, 616 pages. 2007.

Vol. 4797: M. Arenas, M.I. Schwartzbach (Eds.), *Database Programming Languages*. VIII, 261 pages. 2007.

Vol. 4796: M. Lew, N. Sebe, T.S. Huang, E.M. Bakker (Eds.), *Human–Computer Interaction*. X, 157 pages. 2007.

Vol. 4794: B. Schiele, A.K. Dey, H. Gellersen, B. de Ruyter, M. Tscheligi, R. Wichert, E. Aarts, A. Buchmann (Eds.), *Ambient Intelligence*. XV, 375 pages. 2007.

Vol. 4777: S. Bhalla (Ed.), *Databases in Networked Information Systems*. X, 329 pages. 2007.

Vol. 4761: R. Obermaisser, Y. Nah, P. Puschner, F.J. Rammig (Eds.), *Software Technologies for Embedded and Ubiquitous Systems*. XIV, 563 pages. 2007.

Vol. 4747: S. Džeroski, J. Struyf (Eds.), *Knowledge Discovery in Inductive Databases*. X, 301 pages. 2007.

Vol. 4744: Y. de Kort, W. IJsselstein, C. Midden, B. Eggen, B.J. Fogg (Eds.), *Persuasive Technology*. XIV, 316 pages. 2007.

Vol. 4740: L. Ma, M. Rauterberg, R. Nakatsu (Eds.), *Entertainment Computing – ICEC 2007*. XXX, 480 pages. 2007.

Vol. 4730: C. Peters, P. Clough, F.C. Gey, J. Karlgren, B. Magnini, D.W. Oard, M. de Rijke, M. Stempfhuber (Eds.), *Evaluation of Multilingual and Multi-modal Information Retrieval*. XXIV, 998 pages. 2007.

Vol. 4723: M. R. Berthold, J. Shawe-Taylor, N. Lavrač (Eds.), *Advances in Intelligent Data Analysis VII*. XIV, 380 pages. 2007.

Vol. 4721: W. Jonker, M. Petković (Eds.), *Secure Data Management*. X, 213 pages. 2007.

Vol. 4718: J. Hightower, B. Schiele, T. Strang (Eds.), *Location- and Context-Awareness*. X, 297 pages. 2007.

Vol. 4717: J. Krumm, G.D. Abowd, A. Seneviratne, T. Strang (Eds.), *UbiComp 2007: Ubiquitous Computing*. XIX, 520 pages. 2007.

- Vol. 4715: J.M. Haake, S.F. Ochoa, A. Cechich (Eds.), Groupware: Design, Implementation, and Use. XIII, 355 pages. 2007.
- Vol. 4714: G. Alonso, P. Dadam, M. Rosemann (Eds.), Business Process Management. XIII, 418 pages. 2007.
- Vol. 4704: D. Barbosa, A. Bonifati, Z. Bellahsene, E. Hunt, R. Unland (Eds.), Database and XML Technologies. X, 141 pages. 2007.
- Vol. 4690: Y. Ioannidis, B. Novikov, B. Rachev (Eds.), Advances in Databases and Information Systems. XIII, 377 pages. 2007.
- Vol. 4675: L. Kovács, N. Fuhr, C. Meghini (Eds.), Research and Advanced Technology for Digital Libraries. XVII, 585 pages. 2007.
- Vol. 4674: Y. Luo (Ed.), Cooperative Design, Visualization, and Engineering. XIII, 431 pages. 2007.
- Vol. 4663: C. Baranauskas, P. Palanque, J. Abascal, S.D.J. Barbosa (Eds.), Human-Computer Interaction – INTERACT 2007, Part II. XXXIII, 735 pages. 2007.
- Vol. 4662: C. Baranauskas, P. Palanque, J. Abascal, S.D.J. Barbosa (Eds.), Human-Computer Interaction – INTERACT 2007, Part I. XXXIII, 637 pages. 2007.
- Vol. 4658: T. Enokido, L. Barolli, M. Takizawa (Eds.), Network-Based Information Systems. XIII, 544 pages. 2007.
- Vol. 4656: M.A. Wimmer, J. Scholl, Å. Grönlund (Eds.), Electronic Government. XIV, 450 pages. 2007.
- Vol. 4655: G. Psaila, R. Wagner (Eds.), E-Commerce and Web Technologies. VII, 229 pages. 2007.
- Vol. 4654: I.-Y. Song, J. Eder, T.M. Nguyen (Eds.), Data Warehousing and Knowledge Discovery. XVI, 482 pages. 2007.
- Vol. 4653: R. Wagner, N. Revell, G. Pernul (Eds.), Database and Expert Systems Applications. XXII, 907 pages. 2007.
- Vol. 4636: G. Antoniou, U. Aßmann, C. Baroglio, S. Decker, N. Henze, P.-L. Patranjan, R. Tolksdorf (Eds.), Reasoning Web. IX, 345 pages. 2007.
- Vol. 4611: J. Indulska, J. Ma, L.T. Yang, T. Ungerer, J. Cao (Eds.), Ubiquitous Intelligence and Computing. XXIII, 1257 pages. 2007.
- Vol. 4607: L. Baresi, P. Fraternali, G.-J. Houben (Eds.), Web Engineering. XVI, 576 pages. 2007.
- Vol. 4606: A. Pras, M. van Sinderen (Eds.), Dependable and Adaptable Networks and Services. XIV, 149 pages. 2007.
- Vol. 4605: D. Papadias, D. Zhang, G. Kollios (Eds.), Advances in Spatial and Temporal Databases. X, 479 pages. 2007.
- Vol. 4602: S. Barker, G.-J. Ahn (Eds.), Data and Applications Security XXI. X, 291 pages. 2007.
- Vol. 4601: S. Spaccapietra, P. Atzeni, F. Fages, M.-S. Hacid, M. Kifer, J. Mylopoulos, B. Pernici, P. Shvaiko, J. Trujillo, I. Zaihrayeu (Eds.), Journal on Data Semantics IX. XV, 197 pages. 2007.
- Vol. 4592: Z. Kedad, N. Lammari, E. Métails, F. Meziane, Y. Rezgui (Eds.), Natural Language Processing and Information Systems. XIV, 442 pages. 2007.
- Vol. 4587: R. Cooper, J. Kennedy (Eds.), Data Management. XIII, 259 pages. 2007.
- Vol. 4577: N. Sebe, Y. Liu, Y.-t. Zhuang, T.S. Huang (Eds.), Multimedia Content Analysis and Mining. XIII, 513 pages. 2007.
- Vol. 4568: T. Ishida, S. R. Fussell, P. T. J. M. Vossen (Eds.), Intercultural Collaboration. XIII, 395 pages. 2007.
- Vol. 4566: M.J. Dainoff (Ed.), Ergonomics and Health Aspects of Work with Computers. XVIII, 390 pages. 2007.
- Vol. 4564: D. Schuler (Ed.), Online Communities and Social Computing. XVII, 520 pages. 2007.
- Vol. 4563: R. Shumaker (Ed.), Virtual Reality. XXII, 762 pages. 2007.
- Vol. 4561: V.G. Duffy (Ed.), Digital Human Modeling. XXIII, 1068 pages. 2007.
- Vol. 4560: N. Aykin (Ed.), Usability and Internationalization, Part II. XVIII, 576 pages. 2007.
- Vol. 4559: N. Aykin (Ed.), Usability and Internationalization, Part I. XVIII, 661 pages. 2007.
- Vol. 4558: M.J. Smith, G. Salvendy (Eds.), Human Interface and the Management of Information, Part II. XXIII, 1162 pages. 2007.
- Vol. 4557: M.J. Smith, G. Salvendy (Eds.), Human Interface and the Management of Information, Part I. XXII, 1030 pages. 2007.
- Vol. 4541: T. Okadome, T. Yamazaki, M. Makhtari (Eds.), Pervasive Computing for Quality of Life Enhancement. IX, 248 pages. 2007.
- Vol. 4537: K.C.-C. Chang, W. Wang, L. Chen, C.A. Ellis, C.-H. Hsu, A.C. Tsoi, H. Wang (Eds.), Advances in Web and Network Technologies, and Information Management. XXIII, 707 pages. 2007.
- Vol. 4531: J. Indulska, K. Raymond (Eds.), Distributed Applications and Interoperable Systems. XI, 337 pages. 2007.
- Vol. 4526: M. Malek, M. Reitenspieß, A. van Moorsel (Eds.), Service Availability. X, 155 pages. 2007.
- Vol. 4524: M. Marchiori, J.Z. Pan, C.d.S. Marie (Eds.), Web Reasoning and Rule Systems. XI, 382 pages. 2007.
- Vol. 4519: E. Franconi, M. Kifer, W. May (Eds.), The Semantic Web: Research and Applications. XVIII, 830 pages. 2007.
- Vol. 4518: N. Fuhr, M. Lalmas, A. Trotman (Eds.), Comparative Evaluation of XML Information Retrieval Systems. XII, 554 pages. 2007.
- Vol. 4508: M.-Y. Kao, X.-Y. Li (Eds.), Algorithmic Aspects in Information and Management. VIII, 428 pages. 2007.
- Vol. 4506: D. Zeng, I. Gotham, K. Komatsu, C. Lynch, M. Thurmond, D. Madigan, B. Lober, J. Kvach, H. Chen (Eds.), Intelligence and Security Informatics: Bio-surveillance. XI, 234 pages. 2007.
- Vol. 4505: G. Dong, X. Lin, W. Wang, Y. Yang, J.X. Yu (Eds.), Advances in Data and Web Management. XXII, 896 pages. 2007.

Table of Contents

Keynote Addresses

Multicultural and Globalized Digital Libraries: Digitizing and Empowering the "Other" (Extended Abstract)	1
<i>Clara M. Chu</i>	
From Content Organization to User Empowerment	5
<i>Bjørn Olstad</i>	
Archival Tools to Match the Web: Open, International, Comprehensive	7
<i>Gordon Mohr</i>	

Invited Talks

Digital Archiving: Making It Happen - Defining a Web Archiving Strategy	9
<i>Kristine Hanna</i>	
Information Access Through Digital Library Systems	11
<i>Maristella Agosti</i>	
How to Prepare a European Digital Library	13
<i>Olaf D. Janssen</i>	

Usability and Evaluation

Evaluation of Hospital Portals Using Knowledge Management Mechanisms	15
<i>Chei Sian Lee, Dion Hoe-Lian Goh, and Alton Yeow-Kuan Chua</i>	
Supporting Student Collaboration for Image Indexing	24
<i>Palakorn Achananuparp, Katherine W. McCain, and Robert B. Allen</i>	
Analysing HTTP Logs of a European DL Initiative to Maximize Usage and Usability	35
<i>M. Agosti, G. Angelaki, T. Coppotelli, and G.M. Di Nunzio</i>	
Digital Library Evaluation Make Simple with Nielsen's Design Heuristics: Design Compliance and Importance	45
<i>Yin-Leng Theng, Maggie Yin, Norasyikin Binte Ahmad Ismail, and Nureza Binte Ahmad</i>	

Digital Archives

On Building a Full-Text Digital Library of Historical Documents	49
<i>Szu-Pei Chen, Jieh Hsiang, Hsieh-Chang Tu, and Micha Wu</i>	

Towards a Digital Archive for Handwritten Paper Slips with Ethnological Contents	61
<i>A.C. Schering, I. Bruder, C. Schmitt, H. Meyer, and A. Heuer</i>	

Information Retrieval Techniques I

Automatic Classification of Web Search Results: Product Review vs. Non-review Documents	65
<i>Tun Thura Thet, Jin-Cheon Na, and Christopher S.G. Khoo</i>	
An Effective Algorithm for Dimensional Reduction in Collaborative Filtering	75
<i>Fengrong Gao, Chunxiao Xing, and Yong Zhao</i>	
Modeling and Learning User Profiles for Personalized Content Service	85
<i>Heung-Nam Kim, Inay Ha, Seung-Hoon Lee, and Geun-Sik Jo</i>	
Ontology-Based Fuzzy Retrieval for Digital Library	95
<i>Tho Thanh Quan, Siu Cheung Hui, and Tru Hoang Cao</i>	

Multilingual Techniques

Feature Reinforcement Approach to Poly-lingual Text Categorization ...	99
<i>Chih-Ping Wei, Huihua Shi, and Christopher C. Yang</i>	
Development of Prototype Morphological Analyzer for the South Indian Language of Kannada	109
<i>T.N. Vikram and Shalini R. Urs</i>	
Semantic Similarity Measures for Malay Sentences	117
<i>Shahrul Azman Noah, Amru Yusrin Amruddin, and Nazlia Omar</i>	
Enabling Resource Selection Based on Written English and Intellectual Competencies	127
<i>Ayako Morozumi, Liddy Nevile, and Shigeo Sugimoto</i>	

Information Seeking and Use

QRselect: A User-Driven System for Collecting Translation Document Pairs from the Web	131
<i>Kyo Kageura, Takeshi Abekawa, and Satoshi Sekine</i>	
Humanities Graduate Students' Use Behavior on Full-Text Databases for Ancient Chinese Books	141
<i>Ming-der Wu and Shih-chuan Chen</i>	

Annotations and Digital Libraries: Designing Adequate Test-Beds	150
<i>Maristella Agosti, Tullio Coppotelli, Nicola Ferro, and Luca Pretto</i>	
A Method of Fair Use in Digital Rights Management	160
<i>Yong Zhong, Zhu Zhen, Dong-mei Lin, and Xiao-lin Qin</i>	

European DLs I

Ontology-Based Metadata Integration in the Cultural Heritage Domain	165
<i>Thomas Stasinopoulou, Lina Bountouri, Constantia Kakali, Irene Lourdi, Christos Papatheodorou, Martin Doerr, and Manolis Gergatsoulis</i>	
It is the Time for the Digital Library to Meet the Enterprise Architecture	176
<i>José Borbinha</i>	

Multimedia Digital Libraries

Multimedia in Cultural Heritage Collections: A Model and Applications	186
<i>Cristina Ribeiro, Gabriel David, and Catalin Calistru</i>	
Graph-Based Indexing and Querying on Image Corpora with Unified Visual Semantic and Relational Descriptions	196
<i>Mohammed Belkhatir</i>	
Copyright, Patent and Trade Secret on Digital Libraries: Current Issues and Future Trends	206
<i>Hideyasu Sasaki</i>	
A Query-Free Retrieving Method Based on Content Elements' Order for Multimedia News Archives	216
<i>Daisuke Kitayama and Kazutoshi Sumiya</i>	

Information Retrieval Techniques II

Adaptive Search Suggestions for Digital Libraries	220
<i>Sascha Kriewel and Norbert Fuhr</i>	
A Ranking Scheme for XML Information Retrieval Based on Benefit and Reading Effort	230
<i>Toshiyuki Shimizu and Masatoshi Yoshikawa</i>	
Improving MEDLINE Document Retrieval Using Automatic Query Expansion	241
<i>Sooyoung Yoo and Jinwook Choi</i>	

Personal Name Disambiguation in Web Search Results Based on a
Semi-supervised Clustering Approach 250
Kazunari Sugiyama and Manabu Okumura

European DLs II

Preserving Interactive Multimedia Art: A Case Study in Preservation
Planning 257
Christoph Becker, Günther Kolar, Josef Küng, and Andreas Rauber

Identification of FRBR Works Within Bibliographic Databases: An
Experiment with UNIMARC and Duplicate Detection Techniques 267
Nuno Freire, José Borbinha, and Pável Calado

Digital Library 2.0

Predicting Social Annotation by Spreading Activation 277
Abon Chen, Hsin-Hsi Chen, and Polly Huang

Mobile Tagging and Accessibility Information Sharing Using a
Geospatial Digital Library 287
*Dion Hoe-Lian Goh, Louisiana Liman Sepoetro, Ma Qi,
Ramaravikumar Ramakhrisan, Yin-Leng Theng,
Fiftarina Puspitasari, and Ee-Peng Lim*

Social Navigation in Digital Libraries by Bookmarking 297
*Fiftarina Puspitasari, Ee-Peng Lim, Dion Hoe-Lian Goh,
Chew-Hung Chang, Jun Zhang, Aixin Sun, Yin-Leng Theng,
Kalyani Chatterjea, and Yuanyuan Li*

Blog Classification Using Tags: An Empirical Study 307
Aixin Sun, Maggy Anastasia Suryanto, and Ying Liu

Information Mining I

Keyphrase Extraction in Scientific Publications 317
Thuy Dung Nguyen and Min-Yen Kan

Automated Template-Based Metadata Extraction Architecture 327
Paul Flynn, Li Zhou, Kurt Maly, Steven Zeil, and Mohammad Zubair

Using Automatic Metadata Extraction to Build a Structured Syllabus
Repository 337
*Xiaoyan Yu, Manas Tungare, Weiguo Fan, Manuel Pérez-Quñones,
Edward A. Fox, William Cameron, and Lillian Cassel*

Automatic Text Summarization in Engineering Information Management	347
<i>Jiaming Zhan, Han Tong Loh, Ying Liu, and Aixin Sun</i>	

User Interfaces

The PENG System: Integrating Push and Pull for Information Access	351
<i>Mark Baillie, Gloria Bordogna, Fabio Crestani, Monica Landoni, and Gabriella Pasi</i>	
BrowsReader: A System for Realizing a New Children's Reading Environment in a Library	361
<i>Jia Liu, Makoto Nakashima, and Tetsuro Ito</i>	
Desktop Search Engine Visualisation and Evaluation	372
<i>Schubert Foo and Douglas Hendry</i>	
Digital Libraries and Digitised Maps: An Early Overview of the DIGMAP Project	383
<i>José Borbinha, Gilberto Pedrosa, João Gil, Bruno Martins, Nuno Freire, Milena Dobрева, and Alberto Wyttenbach</i>	
SMS – Its Use in the Digital Library	387
<i>Ailsa Parker</i>	

Information Mining II

Understanding Topic Influence Based on Module Network	391
<i>Jinlong Wang, Congfu Xu, Dou Shen, Guojing Luo, and Xueyu Geng</i>	
Development of Indian Agricultural Research Ontology: Semantic Rich Relations Based Information Retrieval System for Vidyanidhi Digital Library	400
<i>M.A. Angrosh and Shalini R. Urs</i>	
Organizing News Archives by Near-Duplicate Copy Detection in Digital Libraries	410
<i>Hung-Chi Chang and Jenq-Haur Wang</i>	
An Efficient Dictionary Mechanism Based on Double-Byte	420
<i>Lei Yang, Jian-Yun Shang, and Yan-Ping Zhao</i>	

Digital Libraries and Education

Content-Based Language Learning in a Digital Library	424
<i>Shaoqun Wu and Ian H. Witten</i>	