

INTERNATIONAL
CONFERENCE ON
ASIAN DIGITAL
LIBRARIES
5 TH



ICADL 2002

Digital Libraries: People, Knowledge & Technology

*5th International Conference on
Asian Digital Libraries
Singapore, December 11-14, 2002
Grand Hyatt Singapore*

Held in conjunction with the *3rd International Conference
on Web Information Systems Engineering (WISE2002)*

PROGRAMME

Organised by

Division of Information Studies
School of Communication & Information
Nanyang Technological University

In collaboration with

National Library Board of Singapore
Nanyang Technological University Library
National University of Singapore Libraries
Library Association of Singapore
Library Information Technology Association of Singapore



Digital Libraries: People, Knowledge & Technology
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Preface

The Organising Committee of ICADL2002 warmly welcomes you to Singapore and to the conference venue at Grand Hyatt Hotel! Built upon the successes of the first four ICADL conferences, the 5th ICADL Conference continues to provide a forum for participants to exchange original research results, innovative ideas, and state-of-the-art developments in digital libraries. The inaugural ICADL conference was held in Hong Kong as the First Asia Digital Library Workshop in 1998. Subsequently, it was brought to Taiwan, Korea and India:

ICADL1998 - Hong Kong, S.A.R., China

ICADL1999 - Taipei, Taiwan

ICADL2000 - Seoul, South Korea

ICADL2001 - Bangalore, India

This programme booklet provides summarised details of the conference programme, paper and poster sessions, events and other information:

- | | |
|--------|---|
| Dec 11 | ICADL Tutorials and Reception for foreign delegates in the evening. |
| Dec 12 | Day 1 - Opening ceremony, Keynote address 1, Invited talks 1 & 2, Paper sessions, and City tour enroute to gala dinner |
| Dec 13 | Day 2 - Keynote address 2, Invited talks 3 & 4, Paper sessions, Poster session and Tour of public and academic libraries |
| Dec 14 | Day 3 - Invited talks 5 & 6, Final paper sessions.
Post conference workshop on Library and Information Science Education in Asia (LISEA) |

We invite you to participate fully in these programmes and activities, take the opportunity to network and build important alliances for the future.

We thank you for your support and attendance, and wish you a very successful conference and pleasant stay in Singapore during this festive time!

Schubert Foo

General Chair, ICADL2002

On behalf of ICADL Organising Committee



Conference Organisation

The *Fifth International Conference on Asian Digital Libraries (ICADL 2002)* was organised by the Division of Information Studies, School of Communication and Information, Nanyang Technological University, Singapore, in collaboration with the National Library Board of Singapore, Nanyang Technological University Library, National University of Singapore Libraries, Library Association of Singapore, and the Library and Information Technology Association of Singapore.

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Programme at a glance ...

Wednesday, 11 December 2002 - Tutorials

8:00am	Registration	
9:00am - 12:15pm	Tutorial 1a - <i>Magnolia III</i> Evaluating Digital Libraries for Usability Christine Borgman, Univ. of California, Los Angeles, USA	Tutorial 1b - <i>Magnolia IV</i> Knowledge Management Systems: A Text Mining Perspective Hsinchun Chen, Univ. of Arizona, USA
12:15pm - 1:30pm	Lunch provided for tutorial participants (Vanda Rm)	
1:30pm - 5:00pm	Tutorial 2a - <i>Magnolia III</i> Digital Libraries: Theory and Practice Edward Fox, Virginia Tech, USA	Tutorial 2b - <i>Magnolia IV</i> Dublin Core Metadata Stuart Weibel, OCLC, USA
6:00pm - 9:00pm	Registration	
8:00pm - 10:00pm	Pre-conference reception	

Email Facilities

Email and Internet access facilities are available to ICADL delegates from Dec 11 to 14, 9.00 am to 5.00 pm, in the Conference Secretariat Room (Camellia I)



Programme at a glance ...

Thursday, 12 December 2002 - Paper Sessions

8:00am	Registration	
8:45am - 10:30am	Opening Ceremony / Joint Keynote Address 1 - Grand Ballroom Web Services and Web Integration Serge Abiteboul, INRIA, France	
10:30am - 11:00am Break		
11:00am - 12:00noon	ICADL Keynote Address - Grand Ballroom Progress on Educational Digital Libraries Jane Prey, National Science Foundation, USA (Session chair: Hsinchun Chen)	
12:00noon - 1:00pm Lunch - Generously sponsored by iGroup <i>Grand Ballroom and Hibiscus Room</i>		
1:00pm - 3:00pm	Paper Session 1a - Magnolia III & IV Information Retrieval Techniques (Session chair: Jieh Hsiang)	Paper Session 1b - Vanda Rm Multimedia Digital Libraries (Session chair: Tat-Seng Chua)
3:00pm - 3:30pm Break		
3:30pm - 4:15pm	ICADL Invited Talk 1 - Magnolia III & IV From Digital Library to Digital Government: A Case Study in Crime Data Mapping and Mining Hsinchun Chen, University of Arizona, USA (Session chair: Christopher C. Yang)	ICADL Invited Talk 2 - Vanda Rm Challenges in Building the Digital Library for the 21st Century Christine Borgman, UCLA, USA (Session chair: Sung Hyon Myaeng)
4:15pm - 5:00pm	Paper Session 2a - Magnolia III & IV Data Mining in Digital Libraries (Session chair: Christopher Khoo)	Paper Session 2b - Vanda Room Special Purpose Digital Libraries (Session chair: Li Jianzhong)
5:00pm - 6:30pm	City Tour enroute to Gala Dinner	
6:30pm - 9:30pm	Gala Dinner (Alkaff Mansion) - Generously sponsored by Thompson-ISI	

Programme at a glance ...

Friday, 13 December 2002 - Paper Sessions

9:00am - 10:00am	Joint Keynote Address 2 - Grand Ballroom Data Mining Technologies for Digital Libraries and Web Information Systems Srikant Ramakrishnan, IBM Almaden Research Lab, USA (Session chair: Raju Buddharaju)	
10:00am - 10:30am Break		
10:30am - 12:15pm	Paper Session 3a - Magnolia III & IV Digital Library Services (Session chair: Ian Witten)	Paper Session 3b - Vanda Rm Digital Libraries for Community Building (Session chair: Erich Neuhold)
12:15pm - 1:15pm Lunch - Generously sponsored by iGroup <i>Grand Ballroom and Hibiscus Room</i>		
1:15pm - 3:00pm	Paper Session 4a - Magnolia III & IV Information Retrieval in Asian Languages (Session chair: Hsueh-Hua Chen)	Paper Session 4b - Vanda Rm Building and Using Digital Libraries (Session chair: Christine Borgman)
3:00pm - 3:30pm Poster Session & Break		
3:30pm - 4:15pm	ICADL Invited Talk 3 - Magnolia III & IV Dublin Core: Process and Principles Shigeo Sugimoto, ULIS, Japan Stuart Weibel, OCLC, USA Thomas Baker, GMD, Germany (Session chair: Robert Allen)	ICADL Invited Talk 4 - Vanda Rm Building Digital Libraries Made Easy: Toward Open Digital Libraries Edward Fox, Virginia Tech, USA (Session chair: Shalini Urs)
4:15pm - 5:00pm	Paper Session 5a - Magnolia III & IV Metadata Issues (Session chair: Vilas Wuwongse)	Paper Session 5b - Vanda Rm Algorithms and Protocols (Session chair: San-Yih Hwang)
5:00pm - 7:00pm Library Tours		



Programme at a glance ...

Saturday, 14 December 2002 - Paper Sessions/ Post-Conference Workshop

9:00am - 10:00am	ICADL Invited Talk 5 - <i>Magnolia III</i> Examples of Practical Digital Libraries: Collections Built Internationally Using Greenstone Ian Witten, University of Waikato, New Zealand (Session chair: Lau Kai Cheong)	ICADL Invited Talk 6 - <i>Magnolia IV</i> Introduction of China Digital Library Project Zhang Xiaoxing, National Library of China, PRC (Session chair: Zawiyah Baba)
10:00am - 10:30am Break		
10:30am - 12:15pm	Paper Session 6a - <i>Magnolia III</i> Human Computer Interfaces (Session chair: S. Sadagopan)	Paper Session 6b - <i>Magnolia IV</i> Digital Library Infrastructure (Session chair: Shigeo Sugimoto)
12:15pm - 1:15pm Closing of Conference		
Post-Conference Workshop Library and Information Science Education in Asia (LISEA)		
2:00pm - 3:15pm	LISEA Workshop Session 1 - <i>Magnolia IV</i> Roles and Opportunities for E-Learning in the LIS Curriculum	
3:15pm - 3:45pm Break		
3:45pm - 5:00pm	LISEA Workshop Session 2 - <i>Magnolia IV</i> Standards for Accreditation: Thinking About LIS Program Accreditation in Asia	



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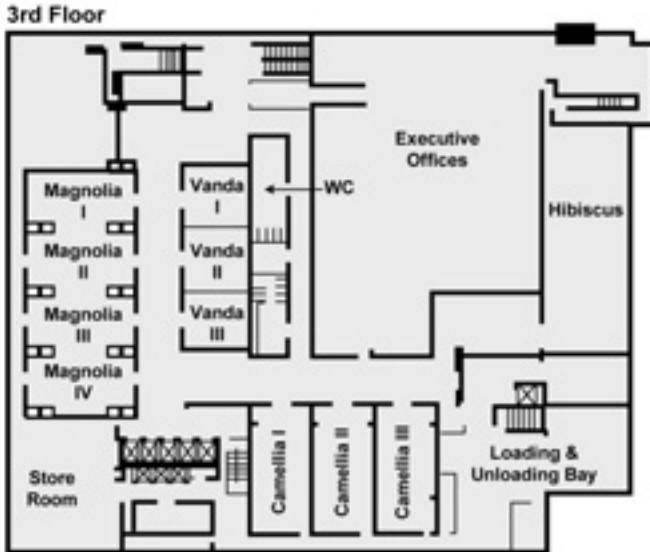
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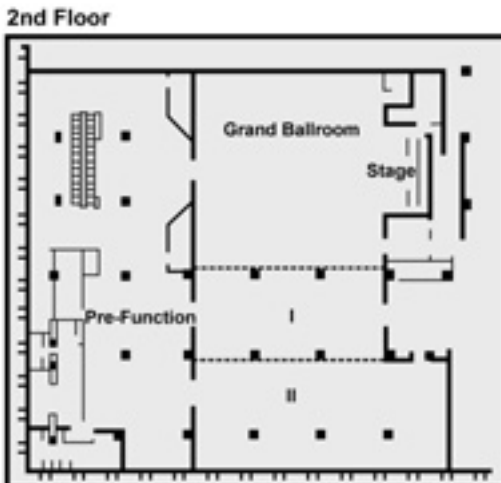
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Floor Plan of Conference Venue



Magnolia Rm = Magnolia III + Magnolia IV combined (*Conference Day 1 and 2*)
 Vanda Rm = Vanda I + Vanda II + Vanda III combined



Pre-Conference Tutorials

Wednesday, 11 December 2002

9:00am - 12:15pm

Tutorial 1a - Magnolia III

Evaluating Digital Libraries for Usability

Christine Borgman, Univ. of California, Los Angeles, USA

Tutorial 1b - Magnolia IV

Knowledge Management Systems: A Text Mining Perspective

Hsinchun Chen, Univ. of Arizona, USA

The 2 tutorials will run concurrently. Registrants can attend either.

12:15pm - 1:30pm Lunch provided for tutorial participants (Vanda Rm)

1:30pm - 5:00pm

Tutorial 2a - Magnolia III

Digital Libraries: Theory and Practice

Edward Fox, Virginia Tech, USA

Tutorial 2b - Magnolia IV

Dublin Core Metadata

Stuart Weibel, OCLC, USA

The 2 tutorials will run concurrently. Registrants can attend either.

Email Facilities

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Pre-Conference Tutorials

Wednesday, 11 December 2002

Synopses

Tutorial 1a (9:00am - 12:15am) - Magnolia III

Evaluating Digital Libraries for Usability

Christine Borgman, Univ. of California, Los Angeles, USA

Usability is a fuzzy concept, as usability depends so much on context. A digital library that is usable by one set of users for a given set of uses may not be very usable by a different set of users with different uses. This tutorial will focus on usability in context, specifically the relationships between users, uses, and usability. Much of the tutorial will be devoted to research methods for conducting formative, iterative, and summative evaluation of digital libraries. Because research methods are difficult to explain in the abstract, we will illustrate them with examples drawn from the Alexandria Digital Earth Prototype (ADEPT) Project. ADEPT is a 5-year project (1999-2004) to design geo-spatial digital libraries for use in undergraduate education. We are conducting a series of evaluation studies that incorporate quantitative and qualitative methods drawn from information studies, education, and psychology. The lessons learned from ADEPT apply to a wide variety of digital library applications.

Tutorial 1b (9:00am - 12:15am) - Magnolia IV

Knowledge Management Systems: A Text Mining Perspective

Hsinchun Chen, Univ. of Arizona, USA

This tutorial aims to present a balanced and integrated view of what a Knowledge Management System (KMS) is. We first define Knowledge Management (KM) from various consulting and IT perspectives and then pay particular attention to new and emerging technologies that help promote this new field. In particular, we present a review of some key KMS sub-fields: search engines, data mining, and text mining. We hope to help readers better understand the emerging technologies behind knowledge management, i.e., Knowledge Management Systems. A high-level, although systematic, discussion of text mining is presented. Unlike search engines and data mining that have a longer history and are better understood, text mining is an emerging technical area that is relatively unknown to IT professionals. We therefore present several case studies and conclude with lessons learned and future research and development directions. This tutorial is intended to provide a gentle introduction to researchers and IT professionals who are new to KMS. We hope to provide a non-technical and practical review of this fascinating field and the potential and pitfalls of this type of emerging technology.

Pre-Conference Tutorials

Wednesday, 11 December 2002

Tutorial 2a (1:30pm - 5:00pm) - Magnolia III

Digital Libraries: Theory and Practice

Edward Fox, Virginia Tech, USA

This tutorial will start with an overview of definitions, foundations, scenarios and perspectives. It will cover a variety of issues, including: search, retrieval and resource discovery; multimedia/hypermedia; metadata (e.g., Dublin Core); electronic publishing; SGML and XML; document models and representations; database approaches; 2D and 3D interfaces and visualizations; architectures and interoperability (e.g., OAI); metrics; educational (e.g., CSTC, NSDL, NDLTD) and social concerns. Case studies of projects, initiatives, and systems will illustrate key concepts, including Computer Science Teaching Center (<http://www.cstc.org/>), National STEM (Science, Technology, Engineering, and Mathematics) education Digital Library (NSF NSDL, <http://www.nsdlnsf.gov/>), Networked Digital Library of Theses and Dissertations (<http://www.ndltd.org/>), Open Archives Initiative (<http://www.openarchives.org/>, <http://www.dlib.vt.edu/projects/OAI/>), and systems and approaches to building digital libraries (MARIAN/5SLgen, ODL). Participants will leave with basic knowledge of: using metadata elements (objects) to catalog information; requirements for publishing electronically, so works can be archived easily; key issues that arise for digital library system design and performance; commercial and legal factors in using and creating digital libraries; digital library technology and its social implications.

Tutorial 2b (1:30pm - 5:00pm) - Magnolia IV

Dublin Core Metadata

Stuart Weibel, OCLC, USA

Dublin Core metadata is the leading Internet metadata standard for information resource discovery using the Internet. This tutorial will describe the current status of the Dublin Core Metadata Initiative, including: Basic concepts and principles of metadata and its use to improve discovery and management of information resources; Introduction to the Dublin Core and its application; Syntax Alternatives for encoding of Dublin Core, including HTML, XML, and RDF/XML; Models for metadata deployment — centralization, harvesting, and metadata-push; Metadata ecology — relation of Dublin Core metadata to other varieties of metadata; Open Issues in the field of metadata deployment



Conference Day 1

Thursday, 12 December 2002

8:45am - 10:30am

Opening Ceremony – Grand Ballroom

- 8:45 am Guest and delegates to be seated
- 8:55 am Arrival of Guest of Honour, Dr Tan Chin Nam (Permanent Secretary, Ministry of Information, Communication and the Arts, and Chairman, National Library Board, Singapore)
- 9:00 am Welcome address by Conference Chairs
- 9:10 am Opening address and official opening by Guest of Honour
- 9:30 am Joint ICADL/WISE Keynote Address 1
- 10:30 am Tea reception

Joint ICADL/WISE Keynote Address 1 – Grand Ballroom

Web Services and Web Integration

Serge Abiteboul
INRIA, France

Abstract. The development of XML and Web Services are changing radically the art of data integration. The speaker will examine Web Services and some their impact on data integration. On-going work at INRAI on Active XML – XML extended by allowing the embedding of calls to Web Services – will be described. It is argued that Web Services provide an infrastructure for data integration at the Web scale.

10:30am - 11:00am Break

Conference Day 1

Thursday, 12 December 2002

11:00am - 12:00noon

ICADL Keynote Address – Grand Ballroom

(p. 53, ICADL Proceedings)

Session chair: Hsinchun Chen, University of Arizona, USA

Progress on Educational Digital Libraries: Current Developments in the National Science Foundation's (NSF) National Science, Technology, Engineering, and Mathematics Education Digital Library (NSDL) Program

Jane Prey & Lee L. Zia

National Science Foundation, USA

Abstract. NSF formally launched the National Science, Technology, Engineering, and Mathematics Education Digital Library (NSDL) programme in fiscal year 2000. Through this program NSF seeks to stimulate and sustain continual improvements in the quality of science, technology, engineering, and mathematics (STEM) education at all levels. NSDL will be a virtual facility, and as a "national treasure", it will enable seamless access to a rich array of interactive learning resources and learning environments, and services not bound by place or time. The speaker will describe the vision of the programme, review current projects and outline possible directions for the future. She points out two interesting opportunities. The first is the international dimension of efforts to improve education. There is great opportunity to share high quality educational resources of a digital nature across international boundaries. The second is the expansion of the programme to, for example, the humanities.

12noon - 1:00pm



Lunch – Generously sponsored by iGroup

(Grand Ballroom and Hibiscus Room)

Email Facilities

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Conference Day 1

Thursday, 12 December 2002

1:00pm - 3:00pm (Parallel Sessions)

**Paper Session 1a – Magnolia III & IV
Information Retrieval Techniques**

(p. 88, ICADL Proceedings)

Session chair: Jieh Hsiang, National Taiwan University, Taiwan

Building Parallel Corpora by Automatic Title Alignment (p. 328)

Christopher C. Yang & Kar Wing Li

The Chinese University of Hong Kong, China

A Linear Text Classification Algorithm Based on Category Relevance
Factors

Zhi-Hong Deng, Shi-Wei Tang, Dong-Qing Yang, Ming Zhang,

Xiao-Bin Wu & Meng Yang

Peking University, P.R. China

A Hierarchical Framework for Multi-Document Summarization of
Dissertation Abstracts

Christopher S.G. Khoo, Shiyan Ou & Dion Hoe-Lian Goh

Nanyang Technological University, Singapore

Generality of Texts

Robert B. Allen & Yejun Wu

University of Maryland, USA

The Effectiveness of a Graph-based Algorithm for Stemming

Michela Bacchin, Nicola Ferro & Massimo Melucci

University of Padua, Italy

3:00pm - 3:30pm Break

Conference Day 1

Thursday, 12 December 2002

1:00pm - 3:00pm (*Parallel Sessions*)

Paper Session 1b – Vanda Rm

Multimedia Digital Libraries

(p. 129, ICADL Proceedings)

Session chair: Tat-Seng Chua, National University of Singapore

Searching Digital Music Libraries

*David Bainbridge, Michael Dewsnpip & Ian Witten
University of Waikato, New Zealand*

The NUS Digital Media Gallery – A Dynamic Architecture for Audio, Image, Clipart, and Video Repository Accessible via the Campus Learning Management System and the Digital Library

*Phoon Moi Ying & Junius Soh Hock Heng
National University of Singapore, Singapore*

A Schema Language for MPEG-7

*Ano Chotmanee, Vilas Wuwongse & Chutiporn Anutariya
Asian Institute of Technology, Thailand*

Bitmap-Based Indexing for Multi-Dimensional Multimedia XML Documents

*Jong P. Yoon, Sung H. Kim, Go U. Kim & Venu Chakilam
University of Louisiana at Lafayette, USA*

*What People Do When They Look for Music: Implications for Design Of a Music Digital Library

*Sally Jo Cunningham
University of Waikato, New Zealand*

*Distributing Relevance Feedback in Content Based Image Retrieval Systems

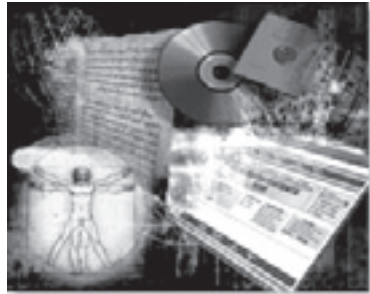
*Raghu Menon & Raj Acharya
State University of New York at Buffalo, USA*

**Short papers*

3:00pm - 3:30pm Break



Since the beginning of time, we've searched for ways to share what we learn, think, speak, and write. It's this insatiable human desire to share knowledge that led to the development of libraries in ancient times and later to innovations such as moveable type, printing presses, and mass-produced books. The result: ideas spread. . . literature, poetry, and music flourished. . . science exploded. . . and the Modern World was born.



Today, we find ourselves in the Information Age. In the blink of an eye, news can be transmitted between time zones. In a breath, information can be sent across continents. In mere seconds, our thoughts are around the planet. With the Internet, anyone, anywhere, any time can access personalized, customized information that only 10 years ago was unavailable, even unthinkable. It's truly a Digital Renaissance.

Sirsi is a pioneer of this new world. Our innovations in the hands of our forward-looking clients are defining how knowledge will be shared in the future... how knowledge of every kind and from virtually any source will be accessible to library users on demand.

Sirsi has long been a trusted technology partner with libraries and librarians, providing the market's most complete library management system. Today, we're building on that heritage by helping libraries take the next evolutionary step in nurturing, managing, and distributing knowledge via the Internet.

Conference Day 1

Thursday, 12 December 2002

3:30pm - 4:15pm (Parallel Sessions)

ICADL Invited Talk 1 – *Magnolia III & IV*

(p. 36, ICADL Proceedings)

Session chair: Christopher C. Yang, Chinese University of Hong Kong

From Digital Library to Digital Government: A Case Study in Crime Data Mapping and Mining

Hsinchun Chen, University of Arizona, USA

Abstract. The speaker will review common threads in digital library, digital government and e-commerce, as well as unique challenges and opportunities. For digital government, information technologies offer tremendous opportunities. A case study of a project (COPLINK) jointly funded by the NSF Digital Library and Digital Government Programs in the area of crime data mining will be presented in detail - including how visual crime mining techniques such as association rule mining, social network analysis, deception detection, temporal-spatial visualization, and agents can assist intelligence and law enforcement agencies in capturing knowledge and creating transformation.

3:30pm - 4:15pm (Parallel Sessions)

ICADL Invited Talk 2 – *Vanda Rm*

(p. 1, ICADL Proceedings)

Session chair: Sung H. Myaeng, Chungnam National University, Korea

Challenges in Building the Digital Library for the 21st Century

Christine Borgman, UCLA, USA

Abstract. After a decade of R&D, digital libraries are becoming operational systems and services. The speaker will review some of the challenges required for that transition. Digital libraries as systems are converging with digital libraries as institutions. They are enabling technologies for applications such as classroom instruction, information retrieval, and electronic commerce. Because usability depends heavily upon context, research on uses and users of digital libraries needs to be conducted in a wide array of environments. Interoperability and scaling continue to be major issues. Institutional collaboration is an emerging focus. Concerns for an information infrastructure to support digital libraries is moving toward the concept of “cyberinfrastructure.” Appropriate evaluation methods and metrics are requirements for sustainable digital libraries that have received little attention until recently. Lastly, two areas that have received considerable discussion are noted – digital preservation and the role of information institutions such as libraries and archives.

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Conference Day 1

Thursday, 12 December 2002

4:15pm - 5:00pm (Parallel Sessions)

Paper Session 2a – *Magnolia III & IV*

Data Mining in Digital Libraries

(p. 182, ICADL Proceedings)

Session chair: Christopher Khoo, Nanyang Technological University

Multistrategy Learning of Rules for Automated Classification of Cultural Heritage Material

*G. Semeraro, F. Esposito, S. Ferilli, N. Fanizzi, T.M.A. Basil & N. Di Mauro
Universita` di Bari, Italy*

VideoCube: A Novel Tool for Video Mining and Classification

*Jia-Yu Pan & Christos Faloutsos
Carnegie Mellon University, USA*

4:15pm - 5:00pm (Parallel Sessions)

Paper Session 2b – *Vanda Rm*

Special Purpose Digital Libraries

(p. 203, ICADL Proceedings)

Session chair: Li Jianzhong, Harbin Institute of Technology, China

Developing Tsinghua University Architecture Digital Library for Chinese Architecture Study and University Education

*Chunxiao Xing, Lizhu Zhou, Zhiqiang Zhang, Chun Zeng &
Xiaodan Zhou
Tsinghua University, P.R. China*

Retrieving News Stories from a News Integration Archive

*Arnulfo P. Azcarraga, Tat Seng Chua & Jonathan Tan
National University of Singapore, Singapore*

5:00pm - 6:30pm

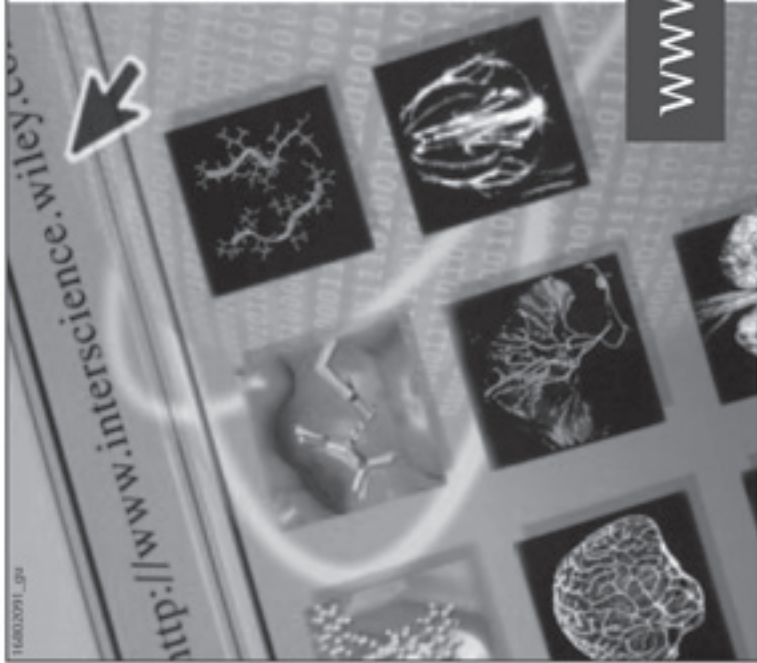
City Tour Enroute to Gala Dinner

6:30pm - 9:30pm

Gala Dinner (*Alkaff Mansion*)



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Conference Day 2

Friday, 13 December 2002

9:00am - 10:00am

Joint Keynote Address 2 – Grand Ballroom

Session chair: Raju Buddharaju, National Library Board, Singapore

Data Mining Technologies for Digital Libraries and Web Information Systems

Srikant Ramakrishnan

IBM Almaden Research Lab, USA

Abstract. In the first half of the talk, the speaker will discuss data mining technologies that can result in better browsing and searching. Consider the problem of merging documents from different categorizations (taxonomies) into a single master categorization. Current classifiers ignore the implicit similarity information present in the source categorizations. It will be shown that by incorporating this information into the classification model, classification accuracy can be substantially improved. A novel search technology will be demonstrated that treats numbers as first-class objects, and thus yields dramatically better results than current Web search engines when searching over product descriptions or other number-rich documents. The second half of the talk will focus on privacy, giving a brief introduction to the field of private information retrieval, which allows users to retrieve documents without the library identifying which document was retrieved. The exciting new research area of privacy preserving data mining will be introduced, which allows us to build accurate data mining models without access to precise information in individual data records, thus finessing the potential conflict between privacy and data mining.

10:00am - 10:30am Break

Conference Day 2

Friday, 13 December 2002

10:30am - 12:15pm (Parallel Sessions)

Paper Session 3a – Magnolia III & IV

Digital Library Services

(p. 229, ICADL Proceedings)

Session chair: Ian Witten, University of Waikato, New Zealand

A Data Mining Approach to Library New Book Recommendations

San-Yih Hwan & Ee-Peng Lim

National Sun Yat-sen University, Taiwan

Grouping Web Pages about Persons and Organisations for Information Extraction

Shiren Ye, Tat-seng Chua, Jimin Liu & Jeremy R. Kei

National University of Singapore, Singapore

*Personalized Services for Digital Library

Chun Zeng, Xiaohui Zheng, Chunxiao Xing & Lizhu Zhou

Tsinghua University, P.R. China

*Automatic References: Active Support for Scientists in Digital Libraries

Harald Krottmaier

Institute for Information Processing and Computer Supported New Media (IICM), Austria

*Organizing and Maintaining Dynamic Digital Collections

M. Nikolaidou, D. Anastasiou, D. Anagnostopoulos & M. Hatzopoulos

University of Athens, Greece

*Navigation, Organization, and Retrieval in Personal Digital Libraries of Email

Benjamin M. Gross

University of Illinois Urbana-Champaign/UC Berkeley, USA

*A Work Environment for a Digital Library of Historical Resources

Dion Hoe-Lian Goh, Lin Fu & Schubert Foo

Nanyang Technological University, Singapore

**Short papers*

12:15pm: - 1:15pm Lunch – Generously sponsored by iGroup
(Grand Ballroom and Hibiscus Room)

Conference Day 2

Friday, 13 December 2002

10:30am - 12:15pm (Parallel Sessions)

Paper Session 3b – Vanda Rm

Digital Libraries for Community Building

(p. 262, ICADL Proceedings)

Session chair: Erich Neuhold, Darmstadt Univ. of Technology, Germany

A Personalized Collaborative Digital Library Environment

M. Elena Renda & Umberto Straccia

Istituto di Elaborazione della Informazione - C.N.R., Italy

Virtual Tutor: A System for Deploying Digital Libraries in Classrooms

Joemon M Jose, Hywel Braddick, Innes Martin, Brian Robertson,

Craig Walker & Greg MacPherson

University of Glasgow, United Kingdom

Resource Annotation Framework in a Georeferenced and Geospatial Digital Library

Zehua Liu, Ee-Peng Lim, Dion Hoe-Lian Goh

Nanyang Technological University, Singapore

*Building Policy, Building Community: An Example from the US National Science, Technology, Engineering, and Mathematics Education Library (NSDL)

Ellen Hoffman & Edward Fox

Eastern Michigan University, New Zealand

*Building a Digital Library from the Ground Up: An Examination of Emergent Information Resources in the Machine Learning Community

Sally Jo Cunningham

University of Waikato, New Zealand

*Subscription Clubs for E-Journals: Indian Initiatives

I.R.N. Goudar & Poornima Narayana

National Aerospace Laboratories, India

**Short papers*

12:15pm - 1:15pm

Lunch – Generously sponsored by iGroup

(Grand Ballroom and Hibiscus Room)

Conference Day 2

Friday, 13 December 2002

1:15pm - 3:00pm (Parallel Sessions)

**Paper Session 4a – Magnolia III & IV
Information Retrieval in Asian Languages**

(p. 305, ICADL Proceedings)

Session chair: Hsueh-Hua Chen, National Taiwan University, Taiwan

A Multilingual Multi-Script Database of Indian Theses: Implementation of Unicode at Vidyanidhi

*Shalini R. Urs, N.S.Harinarayana & Mallinath Kumbar
University of Mysore, India*

A Workbench for Acquiring Semantic Information and Constructing Dictionary for Compound Noun Analysis

*Kyung-Soon Lee, Do-Wan Kim, Kyo Kageura & Key-Sun Choi
National University of Singapore, Singapore*

Chinese Text Summarization Using A Trainable Summarizer and Latent Semantic Analysis (p. 76)

*Jen-Yuan Yeh, Hao-Ren Ke & Wei-Pang Yang
National Chiao-Tung University, Taiwan*

Off-Line Isolated Handwritten Thai OCR Using Island-based Projection with N-gram Models and Hidden Markov Models

*Thanaruk Theeramunkong, Chainat Wongtapan & Sukree Sinthupinyo
Sirindhorn International Institute of Technology,
Thammasat University, Thailand*

*A Cache-Based Distributed Terabyte Text Retrieval System in CADAL

*Jun Cheng, Wen Gao, Bin Liu, Tie-jun Huang & Ling Zhang
Chinese Academy of Sciences, P.R. China*

3:00pm - 4:00pm Poster Session

3:00pm - 3:30pm Break

Conference Day 2

Friday, 13 December 2002

1:15pm - 3:00pm (*Parallel Sessions*)

Paper Session 4b – Vanda Rm

Building and Using Digital Libraries

(p. 354, ICADL Proceedings)

Session chair: Christine Borgman, UCLA

Rural Digital Library: Connecting Rural Communities in Nepal

Binod Vaidya & Jagan Nath Shrestha

Tribhuvan University, Nepal

Collection Development for the Digital Age: The Case of Malaysia

Ahmad Bakeri Abu Bakar & Kaba Abdoulaye

International Islamic University Malaysia, Malaysia

Digital Divide: How Can Digital Libraries Bridge the Gap?

Gobinda G. Chowdhury

University of Strathclyde, UK

Digital Libraries in Academia: Challenges and Changes

Anne Adams & Ann Blandford

Middlesex University, England

*Building Digital Libraries for Children: Reviewing Information Literacy of Students and Teachers

Marcia Mardis & Ellen Hoffman

Eastern Michigan University, USA

3:00pm - 4:00pm Poster Session

3:00pm - 3:30pm Break

Conference Day 2

Friday, 13 December 2002

3:00pm - 4:00pm

Poster Session

(p. 518, ICADL Proceedings)

1. The Idea of a Digital Library: Issues of Today
Swapan K. Dasgupta & Asoke P. Chattopadhyay
2. US-Korea Collaboration on Digital Libraries: An Overview and Generalization for Pacific Rim Collaboration
E.A. Fox, R.W. Moore, R.L. Larsen, S.H. Myaeng & S.H. Kim
3. ETDs at HKU: A Spearhead for Digital Library Growth
David T. Palmer
4. MiMedicalLibrary: A Digital Health Library for Michigan
Harvey R. Brenneise
5. Reference Services in a Digital Library of Historical Artifacts
Roy Chan, Dion Goh & Schubert Foo
6. An Integrative User-Centered Purchase Request Service in the Age of Digital Library Development
Ching-Fan Wu & Hui-Chen Hsieh
7. Vitalising Library and Information Science Education: A Challenge in the Digital Information environment
K. Padmini
8. Developing a Dialogue Library System
Ivan Kopecek & Miroslav Bartosek
9. WebClipper: A Personal/Community Link Library Builder Based on Web Link Management Technique
Y. S. Kim, J.H. Lim, S. J. Hyun & D. Lee
10. Hiding a Logo Watermark in an Image for Its Copyright Protection
Jun Zhang, Feng Xiong & Nengchao Wang
11. Searching Video Segments through Transcript, Metadata and SVG Objects
M. Karthikeyan, D. Uzagare, S. Krishnan, M. Yang & G. Marchionini
12. Similar Sub-Trajectory Retrieval Based on k-Warping Distance Algorithm for Moving Objects in Video Databases
Choon-Bo Shim & Jae-Woo Chang
13. A Keyword Spotting System of Korean Document Images
I.S. Oh, Y.S. Choi, J.H. Yang & S.H. Kim
14. An Efficient Strategy for Adding Bulky Data into B+-Tree Indices in Information Retrieval Systems
J.H. Kim, J.Y. Kim, S.W. Kim, S.H. Ok & H.Y. Roh

Conference Day 2

Friday, 13 December 2002

3:30pm - 4:15pm (Parallel Sessions)

ICADL Invited Talk 3 – *Magnolia III & IV*

(p. 25, ICADL Proceedings)

Session chair: Robert Allen, University of Maryland, USA

Dublin Core: Process and Principles

Shigeo Sugimoto, Univ. of Tsukuba, Japan

Stuart Weibel, OCLC, USA

Thomas Baker, GMD, Germany

Abstract. The Dublin Core metadata element set has been widely adopted by cultural and scientific institutions, libraries, governments, and businesses to describe resources for discovery on the Internet. This paper provides an overview of its history and underlying principles and describes the activities of Dublin Core Metadata Initiative (DCMI) as an organization.

3:30pm - 4:15pm (Parallel Sessions)

ICADL Invited Talk 4 – *Vanda Rm*

(p. 1, ICADL Proceedings)

Session chair: Shalini Urs, University of Mysore, India

Building Digital Libraries Made Easy: Toward Open Digital Libraries

Edward Fox, Virginia Tech, USA

Abstract. Digital libraries (DLs) promote a sharing culture among those who contribute and those who use resources. This same approach works when building Open Digital Libraries (ODLs). Leveraging the intellectual and practical investment made in the Open Archives Initiative through an eXtended Protocol for Metadata Harvesting (XPMH), one can build lightweight protocols to tie together key components that together make up the core of a DL. DL developers in various settings have learned how to apply this framework in a few hours. The speaker introduces a “DL-in-a-box” toolkit which is being developed.



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Conference Day 2

Friday, 13 December 2002

4:15pm - 5:00pm (Parallel Sessions)

Paper Session 5a – *Magnolia III & IV*

Metadata Issues

(p. 406, ICADL Proceedings)

Session chair: Vilas Wuwonse, Asia Institute of Technology, Thailand

The Use and Functionality of the Environmental Data Registry: An Evaluation of User Feedback

*Panayiota Polydoratou, Michael Pendleton, David Nicholas
City University, Department of Information Science, UK
United States Environmental Protection Agency, USA*

*Adding Semantics to 3D Digital Libraries

*Anshuman Razdan, Jeremy Rowe, Mathew Tocheri & Wilson Sweitzer
Arizona State University, USA*

4:15pm - 5:00pm (Parallel Sessions)

Paper Session 5b – *Vanda Rm*

Algorithms and Protocols

(p. 421, ICADL Proceedings)

Session chair: San-Yih Hwang, National Sun Yat-Sen University, Taiwan

*INEXP: Information Exchange Protocol for Interoperability

*Hongzhi Wang, JianZhong Li, Zhenying He
Harbin Institute of Technology, China*

*Study on Data Placement and Access Path Selection in an FC-SAN Virtual Storage Environment

*Chao Li, Chun-xiao Xing, Li-zhu Zhou
Tsinghua University, P.R.China*

*Building an OAI-based Union Catalog for the National Digital Archives Program in Taiwan

*Chao-chen Chen & Hsueh-hua Chen
National Taiwan University, Taiwan*

5:00pm - 7:00pm Library Tours



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Conference Day 3

Saturday, 14 December 2002

9:00am - 10:00am (Parallel Sessions)

ICADL Invited Talk 5 – *Magnolia III*

(p 67, ICADL Proceedings)

Session chair: Lau Kai Cheong, National Library Board, Singapore

Examples of Practical Digital Libraries: Collections Built Internationally Using Greenstone

Ian Witten

University of Waikato, New Zealand

Abstract. The Greenstone Digital Library Software provides a way of building and distributing digital library collections, opening up new possibilities for organizing information and making it available over the Internet or on CD-ROM. Produced by the New Zealand Digital Library Project, Greenstone is intended to lower the bar to the construction of practical digital libraries, yet at the same time leave a great deal of flexibility in the hands of the user. The speaker reviews a selection of Greenstone digital library sites to give a feeling for what public digital libraries are being used for.

10:00am - 10:30am (Parallel Sessions)

ICADL Invited Talk 6 – *Magnolia IV*

Session chair: Zawiyah Baba, National Library of Malaysia

Introduction of China Digital Library Project

Zhang Xiaoxing

National Library of China, P.R. China

10:30am - 11:00am Break

Conference Day 3

Saturday, 14 December 2002

10:30am - 12:15pm (*Parallel Sessions*)

Paper Session 6a – Magnolia III

Human Computer Interfaces

(p. 427, ICADL Proceedings)

Session chair: S. Sadagopan

Indian Institute of Information Technology, India

Intergenerational Partnerships in the Design of a Digital Library of Geography Examination Resources

*Yin-Leng Theng, Dion Hoe-Lian Goh, Ee-Peng Lim, Zehua Liu,
Natalie Lee-San Pang, Patricia Bao-Bao Wong & Lian Heong Chua
Nanyang Technological University, Singapore*

Pie Charts for Visualizing Query Term Frequency in Search Results

*T. J. Anderson, A. Hussam, B. Plummer & N. Jacobs
University of Ulster, United Kingdom*

Information Therapy in Digital Libraries

*Yin-Leng Theng
Nanyang Technological University, Singapore*

*Evaluation of Task Based Digital Work Environment

*Narayanan Meyyappan & Schubert Foo
Nanyang Technological University, Singapore*

*A Framework for Flexible Information Presentation in Digital Collections

*Unmil P. Karadkar, Jin-Cheon Na & Richard Furuta
Texas A&M University, USA*

*Electronic Journal of the University of Malaya (EJUM): An Attempt to Provide a Truly Electronic Environment

*Awang Ngah Zainab, N.N. Edzan & T.F. Ang
University of Malaya, Malaysia*

Conference Day 3

Saturday, 14 December 2002

10:30am - 12:15pm (Parallel Sessions)

Paper Session 6b – Magnolia IV

Digital Library Infrastructure

(p. 471, ICADL Proceedings)

Session chair: Shigeo Sugimoto, University of Tsukuba, Japan

Patenting the Processes for Content-Based Retrieval in Digital Libraries

Hideyasu Sasaki & Yasushi Kiyoki

New York State Bar, Keio University, Japan

Secure Content Distribution for Digital Libraries

Mariemma I. Yagüe, Antonio Maña, Javier López, Ernesto Pimentel &

Jose M. Troya

University of Malaga, Spain

A Strategic Level for Scientific Digital Libraries

Ling Feng, Manfred Jeusfeld & Jeroen Hoppenbrouwers

Tilburg University, The Netherlands

Bridging the Gap Between Information Resource Design and Enterprise
Content Management

Sue Fowell

The University of Technology, Sydney, Australia

*A Digital Content Management Model for Making Profits in Digital
Content Sites

Hyeonjeong Mun, Soho Ok & Yongtae Woo

Changwon National University, Republic of Korea

12:15pm

Closing of Conference



Post-Conference Workshop

**Library & Information Science Education in Asia (LISEA)
Saturday, 14 December 2002**

2:00pm - 3:15pm

LISEA Workshop Session 1 – *Magnolia IV*
Roles and Opportunities for E-Learning in the LIS Curriculum
Session chair: Beth Logan, Nanyang Technological University

E-learning in the LIS Curriculum: Can it Stand Alone?

Ross Harvey & John Mills

Charles Sturt University, Australia

E-learning For, With, By and From LIS Students

Sue Myburgh

University of South Australia

Controlling and Evaluating Group Dynamics in E-learning Discussion Classes

Christine Richardson & Maggie Exon

Curtin University of Technology, Australia

Strategic Issues for a Part-Time M.L.I.S. Program in Taiwan:

Opportunities for Learning

Steve H. Ching, Ken L. Huang, Rebecca K. Liang

Feng Chia University, Taiwan

3:15pm - 3:45pm Break

Post-Conference Workshop

**Library & Information Science Education in Asia (LISEA)
Saturday, 14 December 2002**

3:45pm -5:00pm

LISEA Workshop Session 2 – Magnolia IV
Standards for Accreditation: Thinking About LIS Program
Session chair: Beth Logan, Nanyang Technological University

Library Development And Education in Bangladesh: An Overview
Md. Hanif Uddin, & Md. Anisur Rahman
*University of Dhaka and ICDDR,B: Center for Health and
Population Research, Bangladesh*

Developing Undergraduate Programs for the Information Market
of the Corporate Sector
Sajjad ur Rehman & Laila Marouf
Kuwait University

Accreditation of Library and Information Studies Degrees in ASEAN
Countries: A Proposed Model
M. Shaheen Majid, Abdus Sattar Chaudhry, Schubert Foo & Beth Logan
Nanyang Technological University

Accrediting Your Library Program: What is it Worth?
Kerry Smith
Curtin University of Technology



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15. Midpoint Orchard	F4		
16. Ngee Ann City/Takashimaya SC	D4		
17. Orchard C03	H4		
18. Orchard Building	J4		
19. Orchard Emerald	H4		
20. Orchard Hotel Shopping Arcade-Centre	M		
21. Orchard Shopping Centre	C3		
22. Orchard Towers	C3		
23. Pacific Plaza	C3		
24. Palais Renaissance	C3		
25. Paragon	C3		

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