Welcome to JCDL 2007

Welcome to Vancouver for the 7th ACM IEEE Joint Conference on Digital Libraries. The conference this year spans six days, with three days of technical sessions offering papers, keynote addresses and panels. Preceding and following the technical sessions are three days of auxiliary events: five tutorials, four workshops, and a doctoral consortium on the University of British Columbia campus.

JCDL 2007 focuses on the technical, practical, and social issues associated with digital libraries. It continues a series of highly successful digital library conferences first begun in 1994. This year the conference theme is "Building and Sustaining the Digital Environment" and the program reflects these themes as well as the broader context of digital libraries and the boundary-spanning research that supports their design, development and operation. JCDL recognizes that building and sustaining digital libraries requires expertise from a wide variety of fields and encourages participation from all parts of the world and from the full range of disciplines and professions involved in digital library research and practice. In the 13 years since the first DL conference, the digital library community has become increasingly international in scope and multi-disciplinary in its approach. We are very pleased by the diversity of countries and specializations represented at the conference this year.

The conference program is the product of the DL community, and we would like to thank the members of the Program Committee for their work in reviewing submissions. Special thanks to the chairs responsible for specific aspects of the program: Nadia Caidi (Doctoral Consortium); Diane Kelly (Panels); Michael Christel (Posters and Demos); Andreas Paepcke (Tutorials); and Michael Nelson (Workshops). Thanks also to the chairs who provided logistical support: Bronwen Sprout (Local Arrangements), Theng Yin Leng (Publicity), Rick Kopak (Finance), Shirley Lew (Website/Registration) and Michael Huggett (Volunteers).

This year we welcome new and established digital library practitioners and researchers. We hope that JCDL 2007 is an effective venue for sharing ideas and demonstrating the progress that the field has made. Please enjoy the conference, and take time also to enjoy the beautiful city of Vancouver!

Ray R. Larson   *Edie Rasmussen*

Shigeo Sugimoto   Conference Chair

Elaine Toms

Program Co-Chairs

Visiting Vancouver

We are excited to welcome you to Vancouver for the JCDL 2007, ACM IEEE Joint Conference on Digital Libraries. We are very pleased to be the first Canadian city to host JCDL.

Vancouver is regularly ranked as one of the world's most livable cities, and we hope your experience of the city during JCDL supports that ranking. The conference location at the Westin Bayshore affords attendees with sea and mountain views and easy access to the 1000-acre Stanley Park, as well as the city's shopping and restaurants. Take some time to explore locally in Chinatown, Gastown, or Granville Island, or get out of town on a side trip to Whistler, Vancouver Island or the sunny Okanagan.

Before or after the conference, whether you spend time shopping, sightseeing, or enjoying the outdoors, we hope you are able to experience some of what Vancouver has to offer.

Bronwen Sprout

Local Arrangements Chair

The University of British Columbia

UBC is located on the city's west side of Point Grey. The University Endowment Lands are situated to the east of the campus, and serve as a green belt between the city and the campus.

Only 30 minutes from the heart of downtown Vancouver, the spectacular campus is a must see for any visitor to the city. The University boasts some of the city's finest attractions, including the Museum of Anthropology, the Chan Centre for the Arts, and the UBC Botanical Garden.

UBC is well-connected by public transit. Delegates wishing to visit UBC can easily reach campus via transit from downtown Vancouver – catch the #44 bus on the west side of Burrard and get off at the University bus loop (last stop on the route).

Keynote Speakers

First Plenary Session

Wednesday, June 20, 9:00-10:30am

What are They Thinking? Searching for the Mind of the Searcher

We are in a new age of being able to understand what people are doing when trying to search. With internet search engines in common and constant use, we also have a new challenge to understand what people are really searching for, and what it is they want to do. Whatever people are doing, it's certainly not the same as the older models of search. How are people searching on Google? What are they thinking when they make certain queries? What is their intent? How can we discern what that intent really is?

In this talk I'll describe some of the ways we're working to understand what people are really doing, and why they're doing it that way. The goal of this work is to vastly improve the searcher use-experience by understanding the minds of millions of searchers.

Daniel M. Russell is an Uber Tech Lead for Search Quality & User Happiness at Google. In this job, Dan studies Google searcher behavior using a variety of methods to get closer to the real experience of searching. Most recently, Dan was a senior scientist and senior manager at the IBM Almaden Research Center in San Jose, California. He is best known for his work on IBM's Blueboard system (a large shoulder-to-shoulder collaboration system) and for establishing the basis of sensemaking theory while at Xerox PARC (work with Stu Card, Mark Stefik and Peter Pirolli). In addition to IBM and PARC, Dan has also worked in Apple's Advanced Technology Group, and taught at both Stanford and Santa Clara Universities. He enjoys word play, music, and long distance running, becoming disgruntled when all three can't be in one day.

Second Plenary Session

Thursday, June 21, 9:00-10:30am

Sorting and Classifying the Open Access Issues for Digital Libraries: Issues Technical, Economic, Philosophical, and Principled

It is no easy task to make sense of scholarly publishing today, given its highly stratified market based on non-quality-related pricing and multiple access points. In thinking about where things could and should be heading in the years ahead, I am assuming with this talk that it would be helpful to review a number of related topics in scholarly publishing, including technical developments that are enabling libraries and other new players to become involved in journal publishing; economic issues leading to two-tiered research access; epistemological questions raised by degrees of access to this knowledge; and moral principles that extend beyond dissemination and have long guided scholarly communication, namely editorial independence, intellectual integrity, and academic freedom.

John Willinsky is Pacific Press Professor of Literacy and Technology at the University of British Columbia. His recent book, *The Access Principle: The Case for Open Access to Research and Scholarship* (MIT Press, 2006) has won two outstanding book awards. Much of his work, including open source software for journals and conferences, is free to download at the Public Knowledge Project (http://pkp.sfu.ca), which he directs at UBC and Simon Fraser University.

Conference at a Glance

MONDAY, JUNE 18th		
8:00 – 10:00am	Registration	
8:00 – 9:00am	Breakfast (served in session rooms)	
9:00 – 12:30pm	Tutorial 1	
9:00 – 4:00pm	Workshop 1 (Lunch 12:30–1:30pm)	
TUESDAY, JUNE 19th		
8:00 – 7:00pm	Registration (closed 2:00-4:00pm)	
8:00 – 9:00am	Breakfast in the foyer	
9:00 – 12:30pm	Tutorials 2A, 5, 6, and 7A	Doctoral Consortium (at UBC)
12:30 – 1:30pm	Lunch	
1:30 – 5:00pm	Tutorials 2B, 6, 7B, and 10	Doctoral Consortium (at UBC)
6:00 – 8:00pm	Opening Reception (Currents Restaurant, Westin Bayshore)	
WEDNESDAY, JUNE 20th		
7:30 – 2:00pm	Registration	
7:30 – 8:30am	Breakfast in the foyer	
8:30 – 10: 30am	Conference Opening: *Edie Rasmussen* Keynote Address: *Daniel M. Russell*	
10:30 – 11:00am	Break in the foyer	
11:00 – 12:30pm	A. Visualization	B. Digital Curation and Preservation
12:30 – 2:00pm	Lunch (Cash Concession)	
2:00 – 3:30pm	C. Information Extraction 1	D. Panel 1
3:30 – 4:00pm	Break in the foyer	
3:30 – 5:30pm	Poster/Demo session set-up in Salon DEF	
4:00 – 5:45pm	E. Information Extraction 2	F. Social Networks
6:00 – 7:00pm	Minute Madness	
7:00 – 9:00pm	Poster/Demo Session and Reception	
THURSDAY, JUNE 21st		
8:00 – 10:00am	Registration	
8:00 – 9:00am	Breakfast in the foyer	
9:00 – 10:30am	Keynote Address: *John Willinsky*	
10:30 – 11:00am	Break in the foyer	
11:00 – 12:30pm	G. Systems	H. Educational Digital Libraries
12:30 – 2:00pm	Lunch (Cash Concession)	
2:00 – 3:30pm	I. Information Retrieval and Information Extraction 1	J. Panel 2
3:30 – 4:00pm	Break in the foyer	
4:00 – 5:30pm	K. Information Extraction 3	L. Models and Case Studies

FRIDAY, JUNE 22nd			
8:00 – 10:00am	Registration		
8:00 – 9:00am	Breakfast in the foyer		
9:00 – 10:30am	M. Architecture and Ontologies	N. Music Digital Libraries	O. User Studies
10:30am	Break in the foyer		
11:00 – 12:30pm	P. Information Retrieval and Information Extraction 2		Q. Large-Scale Collections
12:30 – 2:00pm	Lunch (Cash Concession)		
2:00 – 3:30pm	R. Metadata	S. Historical Digital Libraries	
3:30pm	Break in the foyer		
4:00 – 5:30pm	T. Automatic Classification	U. Search Behaviour	
5:30 – 8:00pm	Conference Closing Session		
SATURDAY, JUNE 22nd			
8:00 – 10:00am	Registration		
8:00 – 9:00am	Breakfast (served in session rooms)		
9:00 – 12:30pm	Workshops 2, 4, and 5		
12:30 – 1:30pm	Lunch (provided)		
1:30 – 4:00pm	Workshops 2, 4, and 5		

Committee and Special Meetings

Date	Time	Group	Location
Wednesday, June 20	12:30 – 2:00pm	JCDL Steering Committee	Salon C
Thursday, June 21	8:00 – 9:00am	IJDL Editorial Board	Salon C
Thursday, June 21	12:30 – 2:00pm	DL Curriculum Project Advisory Board	Chairman's Room
Friday, June 22	8:00 – 9:00am	TCDL Executive Committee	Salon C
Friday, June 22	9:00 – 12:00pm	California Digital Library	Cowichan Room
Friday, June 22	12:30 – 2:00pm	JCDL 2008 Planning Committee	Salon C

Internet Stations

Internet stations are available in the **Seymour Room** during the following times:

- Wednesday, June 20th   7:30am to 7:00pm
- Thursday, June 21st   8:00am to 6:30pm
- Friday, June 22nd   8:00am to 6:00pm

Ad Hoc Meeting Room

Looking for a place to hold an informal meeting with colleagues? The Mackenzie Room is a small board room on Conference Level One which has been set aside for use by JCDL attendees. If you want to schedule an ad hoc meeting, just sign up at the sheet by the door.

JCDL 2007 Conference Program

Monday, June 18th

8:00–9:00am Breakfast

Served in session rooms

9:00am–12:30pm Half Day Morning Tutorial

Tutorial 1: Making DSpace Your Own

Mackenzie Room

Starting an institutional or digital repository using DSpace software? Get control over its look and feel! Learn to modify and customize DSpace to reflect your institution's branding, and improve usability for both submitters and users. Learn about Manakin, the upcoming XML/XSLT-based interface for DSpace. Specifically we will be discussing how to use Manakin's Aspects and Themes to customize the interface for your institution. Finally, learn more about the DSpace developer community and how you can give back.

Presenters

- *Tim Donohue*, University of Illinois at Urbana-Champaign, USA
- *Scott Phillips*, Texas Digital Library/Texas A&M University Libraries, USA

9:00am–4:00pm- Full Day Workshop

Workshop 1: Developing a Digital Libraries Education Program

Seymour Room

Those who manage digital libraries know that hiring the right people can be the most critical factor in a successful digital library program, yet the pool of qualified applicants for every position is extremely small. Whenever we gather at events such as the JCDL the discussion often turns to issues related to recruitment and retention. Even those fortunate enough to work in academic libraries with allied schools of library and information science (LIS), or computer science (CS) programs, are keenly aware of the difficulties in finding recent graduates with broad knowledge of and familiarity with digital library systems and services. Schools of library and information science have begun working with librarians and technologists in academic digital library programs to develop effective curricula for digital librarianship. While many LIS schools offer courses designed to prepare professionals for work in a digital library program, few, if any, do so in a systematic and comprehensive manner.

Organizers

- *Javed Mostafa*, Indiana University, USA
- *William Mischo*, University of Illinois at Urbana-Champaign, USA
- *Jerome McDonough*, University of Illinois at Urbana-Champaign, USA
- *Edward A. Fox*, Virginia Tech, USA.
- *Jeffrey Pomerantz*, University of North Carolina at Chapel Hill, USA
- *Barbara M. Wildemuth*, University of North Carolina at Chapel Hill, USA

Tuesday, June 19th

8:00 – 9:00am Breakfast

Bayshore Foyer

9:00–12:30pm Half-Day Morning Tutorials

Tutorial 2A: Introduction to Building Digital Collections

Salon B

[See Tutorial 2B afternoon companion session.]

This tutorial will provide a broad survey of the tools, standards, and techniques commonly used in digital collection development. Topics will include document presentation models, content management systems for digital collections, digital object formats and standards, metadata and interoperability standards, and digitization hardware, software, and production options. By the end of the tutorial, participants will be familiar with the basic technologies and techniques used in digital collection development. See also afternoon tutorial

Introduction to Project Management for Digital Collections, which continues the topic.

Presenter

- *Mark Jordan,* Simon Fraser University, Canada

Tutorial 5: Academic Research & the Internet Archive's Web Archives. How to Mine and Analyze Ten+ Years of Virtual Activity
Salon A

Participants will learn about the San Francisco based Internet Archive. This facility has been crawling the World-Wide Web for several years, and has archived the resulting content. This content is available to interested researchers. We will explain the content scope of the Web archive, how it is collected, and the content's time frames. We will then describe research that has been performed so far, using the Archive's holdings. For example, we will describe investigations into how the historic Web reveals social, political, and economic trends and patterns, and a study of the growth and evolution of the Web over time. We will further introduce open source tools and services that are/will be available to researchers. Finally, we will explain how the Digital Library community can get involved.

Presenters

- *Gordon Mohr,* Internet Archive, USA
- *Kris Carpenter*, Internet Archive, USA
- *Frank McCown*, Old Dominion University, USA

Tutorial 7A: Thesauri and ontologies in digital libraries Part I. Structure and use in knowledge-based assistance to users
Salon E

[See Tutorial 7B afternoon companion session.]

This tutorial provides a bridge by presenting methods of subject access as treated in an information studies program for those coming to digital libraries from other fields. It will elucidate through examples the conceptual and vocabulary problems users face when searching digital libraries. It will then show how a well-structured thesaurus / ontology can be used as the knowledge base for an interface that can assist users with search topic clarification (for example through browsing well-structured

hierarchies and guided facet analysis) and with finding good search terms (through query term mapping and query term expansion--synonyms and hierarchic inclusion). It will touch on cross-database and cross-language searching as natural extensions of these functions. It will also mention the use of more richly structured ontologies, including Semantic Web applications. The tutorial will cover the thesaurus structure needed to support these functions: Concept-term relationships for vocabulary control and synonym expansion, conceptual structure (semantic analysis, facets, and hierarchy) for topic clarification and hierarchic query term expansion). It will introduce a few sample thesauri and ontologies and some thesaurus-supported digital libraries and Web sites to illustrate these principles.

Presenter

- *Dagobert Soergel,* University of Maryland, USA

12:30–1:30pm Lunch
Bayshore Foyer

1:30–5:00pm Half Day Afternoon Tutorials

Tutorial 2B: Introduction to Project Management for Digital Collections
Salon B

[See Tutorial 2A morning companion session.]

Expanding on the morning's tutorial, Introduction to Building Digital Collections, this session focuses on project planning and management. Topics include overall project management for building digital collections; evaluation of print, born-digital, and other materials for their potential value as organized digitized collections; choosing metadata and technologies appropriate for various types of digital collections; workflow development; project operations; and basics of writing proposals for developing digital collections. By the end of the tutorial, participants will be familiar with the basic aspects of project management for building digital collections.

Presenter

- *Mark Jordan,* Simon Fraser University, Canada

Tutorial 7B: Thesauri and ontologies in digital libraries Part II. Design, evaluation, and development

Salon E

[See Tutorial 7A morning companion session]

This tutorial will introduce criteria for the design and evaluation of thesauri and ontologies and then deal with methods and tools for their development: locating sources; collecting concepts, terms, and relationships to reuse existing knowledge; developing and refining thesaurus/ontology structure; software, database structure and Web standards; collaborative development; developing crosswalks/mappings between thesauri/ontologies. In summing up, the tutorial will address the question of the resources needed to develop and maintain a thesaurus or ontology.

Presenter

- *Dagobert Soergel*, University of Maryland, USA

Tutorial 10: Digital Curation and Digital Preservation: An Introduction

Salon A

This half-day tutorial provides a broad overview to the areas of digital curation and digital preservation. Preservation of digital assets has surfaced as a wide-scale institutional challenge in recent years. Dozens of initiatives and developments have emerged over the past decade responding to this challenge, including the development of standards, such as the OAIS Reference Model [1], the development of platforms for digital asset management, such as DSpace and Fedora, and the development of tools for assessing an institution's digital preservation and curation programs, such as the recent 2007 releases, Trusted Repositories Audit Checklist (TRAC) [2] and the Digital Repository Audit Method Based on Risk Assessment (DRAMBORA) [3].

This broad overview will provide clarification and distinction between the terms, digital curation and digital preservation; offer an overview and analysis of past and current research in these areas; and summarize emerging best practices. The tutorial is designed for an audience of professionals charged with stewarding their institution's digital assets in perpetuity. This stewardship entails a spectrum of activities, including identification, appraisal, acquisition, management, storage, and discovery, that necessitate application of the principles of digital curation and digital preservation. This tutorial is intended to help those professionals digest the growing body of relevant information in these emerging fields for subsequent application at their respective institutions.

Presenters

- *Helen Tibbo*, University of North Carolina - Chapel Hill, USA
- *Carolyn Hank,* University of North Carolina at Chapel Hill, USA

9:00–5:00pm Full Day Tutorial

Tutorial 6: Building Digital Libraries on Service Oriented Architectures: Challenges, Experiences, and Results

Salon D

The tutorial discusses the core ideas of building digital libraries on distributed infrastructures and the related architectural options. The main part of the tutorial revolves around how core DL functionality like Digital Library Management, Content and Collection Management, Metadata Management and Brokering, Search and Retrieval and Advanced Services (Personalization, Annotation, etc.) can be built by exploiting P2P and Grid technological frameworks. For each of the topics the key challenges are discussed together with possible solutions for the challenges and the lessons learned in implementing these solutions in concrete projects. The solutions are illustrated with concrete examples and demos from the projects DILIGENT, BRICKS, and DELOS as well as from other DL-related projects.

Presenters

- *Thomas Risse*, L3S Research Center, Germany
- *Donatella Castelli,* CNR-ISTI, Italy
- *Carlo Meghini*, CNR-ISTI, Italy
- *Heiko Schuldt*, Uni Basel, Switzerland
- *Claudia Niederée*, L3S Research Center, Germany
- *Pasquale Pagano*, CNR-ISTI, Italy
- *George Kakaletris*, Uni Athen, Greece

9:00–5:00pm Doctoral Consortium

University of British Columbia (UBC) Campus

(Bus pickup at Westin Bayshore at 8:30am, returning at 6:00pm)

The Doctoral Consortium is a workshop for Ph.D. students from all over the world who are in the early phases of their dissertation work (i.e., the consortium is not intended for those who are finished or nearly finished with their dissertation). The goal of the Doctoral Consortium is to help students with their thesis and research plans by providing feedback and general advice on using the research environment in a constructive and international atmosphere. Students will present and discuss their thesis work in the context of a well-known and established international conference outside of their usual university atmosphere.

Doctoral Student Presenters:

- *Vanesa Mirzae*, University of British Columbia, Canada
- *Ying Liu*, Penn State University, USA
- *Chris Jordan*, Dalhousie University, Canada
- *Alannah Fitzgerald*, Concordia University, Canada
- *Uma Murthy*, Virginia Tech, USA
- *Martin Klein*, Old Dominion University, USA
- *Huajing Li*, Penn State University, USA
- *Blake Dworaczyk*, Texas A&M University, USA
- *Veronica Liesaputra*, University of Waikato, New Zealand
- *Prisca Tibenderana*, Makerere University, Uganda
- *Sambhavi Chandrashekar*, University of Toronto, Canada
- *Marco Fernandes*, University of Aveiro, Portugal
- *Anne Washington*, George Washington University, USA
- *Eunyee Koh*, Texas A&M University, USA
- *Bolanle Ojokoh*, Federal University of Technology, Nigeria

Respondents:

- *Christine Borgman*, University of California, Los Angeles, USA
- *George Buchanan*, Swansea University, UK
- *Sally Jo Cunningham*, University of Waikato, New Zealand
- *Ed Fox*, Virginia Tech, USA
- *Geneva Henry*, Rice University, USA
- *Mick Khoo*, National Science Digital Library, USA
- *Gary Marchionini*, University of North Carolina, USA
- *Elaine Toms*, Dalhousie University, Canada

6:00–8:00pm Opening Reception

Currents Restaurant, Westin Bayshore

Wednesday, June 20th

7:30–8:30am Breakfast

Bayshore Foyer

8:30–10:30am Conference Opening and Keynote Address

Salon DEF

Conference Opening: *Edie Rasmussen*

Keynote Address: What are They Thinking? Searching For the Mind of the Searcher
Daniel M. Russell, Google Inc., USA

Chair: *Ray Larson, University of California Berkeley, USA*

10:30am Break in the foyer

11:00–12:30pm

Session A. Visualization

Salon DEF

Chair: Rudi Schmiede, Darmstadt University of Technology, Germany

World Explorer: Visualizing Aggregate Data from Unstructured Text in Geo-Referenced Collections
Shane Ahern, Mor Naaman, Rahul Nair and Jeannie Yang (Yahoo! Research, Berkeley)

Categorization and Analysis of Text in Computer Mediated Communication Archives Using Visualization
Ahmed Abbasi and Hsinchun Chen (University of Arizona)

Delineating the Citation Impact of Scientific Discoveries
Chaomei Chen, Jian Zhang, Weizhong Zhu and Michael Vogeley (Drexel University)

Session B. Digital Curation and Preservation

Salon A

Chair: Geneva Henry, Rice University, USA

How to Choose a Digital Preservation Strategy: Evaluating a Preservation Planning Procedure
Stephan Strodl, Christoph Becker, Robert Neumayer and Andreas Rauber (Vienna University of Technology)

Factors Affecting Website Reconstruction from the Web Infrastructure
Frank McCown, Norou Diawara and Michael L. Nelson (Old Dominion University)

Defining What Digital Curators Do and What they Need to Know: The DigCCurr Project
Christopher A. Lee, Helen R. Tibbo and John C. Schaefer (University of North Carolina at Chapel Hill)

Generating Best-Effort Preservation Metadata for Web Resources At Time of Dissemination
Joan Smith and Michael Nelson (Old Dominion University)

12:30–2:00pm Lunch

Cash Concession, Bayshore Foyer

2:00–3:30pm

Session C. Information Extraction 1

Salon A

Chair: Atsuhiro Takasu, National Institute of Informatics, Japan

Document Clustering using Small World Communities
Brant Chee and Bruce Schatz (University of Illinois at Urbana-Champaign)

Efficient Summarization-Aware Search for Online News Articles
Wisam Dakka and Luis Gravano (Columbia University)

Integrating Data and Text Mining Processes for Digital Library Applications
Robert Sanderson and Paul Watry (University of Liverpool)

Session D. Panel 1

Salon B

Moderator: Clifford Lynch, Coalition for Networked Information, USA

The OAI-ORE Effort: Progress, Challenges, Synergies

- *Clifford Lynch*, Coalition for Networked Information, USA

- *Savas Parastatidis*, Microsoft, USA

- *Neil Jacobs,* Joint Information Systems Committee (JISC), UK

- *Herbert Van de Sompel,* Los Alamos National Laboratory, USA

- *Carl Lagoze*, Cornell University, USA

3:30pm Break in the foyer

4:00–5:45pm

Session E. Information Extraction 2
Salon A
Chair: Dongwon Lee, Pennsylvania State University, USA

SlideSeer: A Digital Library of Aligned Document and Presentation Pairs
Min-Yen Kan (National University of Singapore)

TableSeer: Automatic Table Metadata Extraction and Searching in Digital Libraries
Ying Liu, Kun Bai, Prasenjit Mitra and Lee Giles (The Pennsylvania State University)

CiteSearch: Next-generation Citation Analysis
Kiduk Yang and Lokman Meho (Indiana University)

Retrieval Effectiveness of Table of Contents and Subject Headings
Youngok Choi, Ingrid Hsieh-Yee and Bill Kules (Catholic University of America)

Mining a Digital Library for Influential Authors
David Mimno and Andrew McCallum (University of Massachusetts at Amherst)

Session F. Social Networks
Salon B
Chair: Christine Borgman, University of California, Los Angeles, USA

Can Social Bookmarking Enhance Search in the Web?
Yusuke Yanbe, Adam Jatowt, Satoshi Nakamura and Katsumi Tanaka (Kyoto University)

Task-based Interaction with an Integrated Multilingual, Multimedia Information System: A Formative Evaluation
Pengyi Zhang, Lynne Plettenberg, Judith L. Klavans, Douglas W. Oard and Dagobert Soergel (University of Maryland)

Modeling Personal and Social Network Context for Event Annotation in Images

Bageshree Shevade, Hari Sundaram (Arizona State University) and Lexing Xie (IBM T.J. Watson Research Center)

Longitudinal Study of Changes in Blogs
Paul Logasa Bogen II (Texas A&M University), Luis Francisco-Revilla (The University of Texas), Richard Furuta, Takeisha Hubbard, Unmil Karadkar and Frank Shipman (Texas A&M University)

6:00–7:00pm Minute Madness
Salon AB

7:00–9:00pm Poster/Demo Session & Reception
Salon DEF

Thursday, June 21st

8:00-9:00am Breakfast
Bayshore Foyer

9:00–10:30am Keynote Address
Salon DEF

Sorting and Classifying the Open Access Issues for Digital Libraries: Issues Technical, Economic, Philosophical, and Principled */ John Willinsky, University of British Columbia, Canada*

Chair: Elaine Toms, Dalhousie University, Canada

10:30am Break in the foyer

11:00–12:30pm

Session G. Systems
Salon A
Chair: Andreas Paepcke, Stanford University, USA

SearchGen: a Synthetic Workload Generator for Scientific Literature Digital Libraries and Search Engines
Huajing Li, Wang-Chien Lee, Anand Sivasubramaniam and Lee Giles (The Pennsylvania State University)

A Retrospective Look at Greenstone: Lessons from the First Decade
Ian Witten and David Bainbridge (University of Waikato)

A Unified Platform for Archival Description and Access
Christopher J. Prom, Christopher A. Rishel, Scott W. Schwartz and Kyle J. Fox (University of Illinois at Urbana-Champaign)

Session H. Educational Digital Libraries
Salon DEF

Chair: Joyce Ray, Institute of Museum and Library Services, USA

Children's Interests and Concerns When Using the International Children's Digital Library: A Four Country Case Study
Allison Druin, Ann Weeks, Sheri Massey and Benjamin B. Bederson (University of Maryland at College Park)

Digital Library Education in Computer Science Programs
Jeffrey Pomerantz, Sanghee Oh, Barbara M. Wildemuth (University of North Carolina at Chapel Hill), Seungwon Yang and Edward A. Fox (Virginia Tech)

A Study of How Online Learning Resource Are Used
Mimi Recker (Utah State University), Sarah Giersch (National Science Digital Library), Andrew Walker, Sam Halioris, Xin Mao and Bart Palmer (Utah State University)

Standards or Semantics for Curriculum Search?
Byron Marshall, René R. Reitsma (Oregon State University) and Martha N. Cyr (Worcester Polytechnic Institute)

Information Behavior of Small Groups: Implications for Design of Digital Libraries
Nan Zhou and G. Stahl (Drexel University)

12:30–2:00pm Lunch
Cash Concession, Bayshore Foyer

2:00–3:30pm

Session I. Information Retrieval and Extraction 1
Salon A

Chair: Alberto Laender, Federal University of Minas Gerais, Brazil

Adaptive Sorted Neighborhood Methods for Efficient Record Linkage
Su Yan, Dongwon Lee (The Pennsylvania State University), MinYen Kan (National University of

Singapore) and C. Lee Giles (The Pennsylvania State University)

Distributed Web Search Efficiency by Truncating Results
Christopher Fallen and Gregory Newby (University of Alaska at Fairbanks)

Adaptive Graphical Approach to Entity Resolution
Zhaoqi Chen, Dmitri V. Kalashnikov and Sharad Mehrotra (University of California at Irvine)

Session J. Panel 2
Salon DEF

Moderator: Clifford Lynch, Coalition for Networked Information, USA

Cyberinfrastructure for the Humanities and Social Sciences: Shaping and Advancing the Humanities Research Agenda

- *Brett Bobley*, National Endowment for the Humanities, USA
- *Gregory Crane*, Tufts University, USA
- *Clifford Lynch*, Coalition for Networked Information Information, USA
- *Joyce Ray*, Institute of Museum and Library Services, USA
- *Steven Wheatley*, American Council of Learned Societies, USA

3:30pm Break in the foyer

4:00–5:30pm

Session K. Information Extraction 3
Salon A

Chair: Erich Neuhold, University of Vienna, Austria

FLUX-CiM: Flexible Unsupervised Extraction of Citation Metadata
Eli Cortez, Altigran da Silva, Marcos André Gonçalves, Filipe Mesquita and Edleno de Moura (Universidade Federal do Amazonas)

Measuring Conference Quality by Mining Program Committee Characteristics
Ziming Zhuang, Ergin Elmacioglu, Dongwon Lee and C. Lee Giles (The Pennsylvania State University)

Toward Alternative Measures for Ranking Venues: A Case of Database Research Community
Su Yan and Dongwon Lee (The Pennsylvania State University)

Session L. Models and Case Studies
Salon DEF

Chair: Michael Khoo, National Science Digital Library, USA

A Model for Inclusive Design of Digital Libraries
Sambhavi Chandrashekar and Nadia Caidi (University of Toronto)

Representing Aggregate Works in the Digital Library
George Buchanan (Swansea University), Jeremy Gow, Ann Blandford (UCL Interaction Centre),Jon Rimmer and Claire Warwick (UCL SLAIS)

StoryBank: an Indian Village Community Digital Library
Matt Jones, Will Harwood, George Buchanan (Swansea University) and Mounia Lalmas (Queen Mary University)

The Gray Lady Gets a New Dress: A field study of the Times News Reader
Catherine C. Marshall (Microsoft Corporation)

Friday, June 22nd

8:00–9:00am Breakfast

Bayshore Foyer

9:00–10:30am

Session M. Architecture and Ontologies
Salon A

Chair: George Buchanan, Swansea University, UK

Drowning in Data: Digital Library Architecture to Support Scientific Use of Embedded Sensor Networks
Christine Borgman, Jillian Wallis, Matthew Mayernik and Alberto Pepe (University of California at Los Angeles)

A Practical Ontology for the Large-Scale Modeling of Scholarly Artifacts and their Usage
Marko Rodriguez, Johan Bollen and Herbert Van de Sompel (Los Alamos National Laboratory)

A Dynamic Ontology for a Dynamic Reference Work
Mathias Niepert, Cameron Buckner and Colin Allen (Indiana University)

Session N. Music Digital Libraries
Salon B

Chair: Barbara Wildemuth, University of North Carolina, USA

Preparing Resource Discovery for Digitized Music - an Analysis of an Australian Application
Jennifer Thomas, Michael Middleton (Queens University of Technology), M. Warren (State Library of Queensland)

Goal-Directed Evaluation for the Improvement of Optical Music Recognition on Early Music Prints
Laurent Pugin, John Ashley Burgoyne and Ichiro Fujinaga (McGill University)

Annotation Functionality for Digital Libraries Supporting Collaborative Performance: An Example of Musical Scores
Megan Winget (University of Texas at Austin)

Toward an Understanding of Similarity Judgments for Music Digital Library Evaluation
J. Stephen Downie, Jin Ha Lee, Anatoliy A. Gruzd and M. Cameron Jones (University of Illinois at Urbana-Champaign)

Session O. User Studies and User Interfaces
Salon DEF

Chair: Michael Nelson, Old Dominion University, USA

Agreeing to Disagree: Search Engines and their Public Interfaces
Frank McCown and Michael L. Nelson (Old Dominion University)

Static Reformulation: A User Study of Static Hypertext for Query-Based Reformulation
Michael Hugget and Joel Lanir (University of British Columbia)

A Rich OPAC User Interface with AJAX
Jesse Prabawa Gozali and Min-Yen Kan (National University of Singapore)

Constructing Digital Library Interfaces
David Nichols, David Bainbridge (Unversity of Waikato) and Michael Twidale (University of Illinois at Urbana-Champaign)

10:30am Break in the foyer

11:00–12:30pm

Session P. Information Retrieval and Extraction 2
Salon DEF

Chair: Min-Yen Kan, National University of Singapore, Singapore

Retrieval in Text Collections with Historic Spelling Using Linguistic and Spelling Variants
Andrea Ernst-Gerlach and Norbert Fuhr (University of Duisburg-Essen)

Efficient Topic-based Unsupervised Name Disambiguation
Yang Song, Jian Huang, Isaac. G Councill, Jia Li and C. Lee Giles (The Pennsylvania State University)

Using Bilingual ETD Collections to Mine Phrase Translations
Ryan Richardson and Edward Fox (Virginia Tech)

Evaluation of Kernel-based Link Analysis Measures on Research Paper Recommendation
Masashi Shimbo, Takahiko Ito and Yuji Matsumoto (Nara Institute of Science and Technology)

Session Q. Large-Scale Collections
Salon A

Chair: Traugott Koch, UKOLN, University of Bath, UK

A New Generation of Textual Corpora: Mining Corpora from Very Large Collections
Gordon Stewart (Harvard University), Gregory Crane and Alison Babeu (Tufts University)

Subject Metadata Enrichment using Statistical Topic Models
David Newman (University of California at Irvine), Kat Hagedorn (University of Michigan), Chaitanya Chemudugunta and Padhraic Smyth (University of California at Irvine)

Organizing the OCA: Learning faceted subjects from a library of digital books
David Mimno and Andrew McCallum (University of Massachusetts at Amherst)

12:30–2:00pm Lunch

Cash Concession, Bayshore Foyer

2:00–3:30pm

Session R. Metadata
Salon DEF

Chair: José Borbinha, Institute for Systems and Computer Engineering, Portugal

Trends in Metadata Practices: A Longitudinal Study of Collection Federation
Carole Palmer, Oksana Zavalina and Megan Mustafoff (University of Illinois at Urbana-Champaign)

Induced Tagging: Promoting Resource Discovery and Recommendation in Digital Libraries
J. Alfredo Sánchez, Adriana Arzamendi-Pétriz and Omar Valdiviezo (Universidad de las Américas Puebla)

Standards Alignment for Metadata Assignment
Anne R. Diekema, Ozgur Yilmazel, Jennifer Bailey, Sarah C. Harwell and Elizabeth D. Liddy (Syracuse University)

Identifying Personal Photo Digital Library Features
Sally Jo Cunningham and Masood Masoodian (University of Waikato)

Session S. Historical Digital Libraries
Salon A

Chair: Sally Jo Cunningham, University of Waikato, New Zealand

Locating Thematic Pinpoints in Narrative Texts with Short Phrases: A Test Study on Don Quixote
Jie Deng, Richard Furuta and Eduardo Urbina (Texas A&M University)

Digital Donne: Workflow, Editing Tools, and the Reader's Interface of a Collection of 17th-century English Poetry
Carlos Monroy, Richard Furuta and Gary Stringer (Texas A&M University)

A Multilingual Approach to Technical Manuscripts: 16th and 17th-century Portuguese Shipbuilding Treatises
Carlos Monroy, Richard Furuta and Filipe Castro (Texas A&M University)

First Class Objects and Indexes for Chant Manuscripts
Louis Barton, Peter Jeavons, and John Caldwell (University of Oxford)

Recommending Related Papers Based on Digital Library Access Records
Stefan Pohl, Filip Radlinski and Thorsten Joachims (Cornell University)

3:30pm Break in the foyer

4:00–5:30pm

Session T. Automatic Classification
Salon A

Chair: Ron Larsen, University of Pittsburgh, USA

Automatic Patent Classification Using Citation Network Information: An Experimental Study in Nanotechnology
Xin Li, Hsinchun Chen, Zhu Zhang and Jiexun Li (University of Arizona)

Collaborative Classifier Agents: Studying the Impact of Learning in Distributed Document Classification
Weimao Ke, Javed Mostafa and Yueyu Fu (Indiana University)

UpdateNews: A News Clustering and Summarization System Using Efficient Text Processing
Takaharu Takeda(The Graduate University of Advanced Studies) and Atsuhiro Takasu (National Institute of Informatics)

Automatic Syllabus Classification
Xiaoyan Yu, Manas Tungare, William Cameron, GuoFang Teng, Weiguo Fan, Edward Fox (Virginia Tech), Manuel Pérez-Quiñones and Lillian Cassel (Villanova University)

Session U. Search Behavior and Personalization
Salon B

Chair: Ee-Peng Lim, Nanyang Technological University, Singapore

Effects of Structure and Interaction Style on Distinct Search Tasks
Robert Capra, Gary Marchionini, Jung Sun Oh, Fred Stutzman and Yan Zhang (University of North Carolina at Chapel Hill)

Towards Automatic Conceptual Personalization Tools
Faisal Ahmad, Sebastian de la Chica (University of Colorado), Kirsten Butcher (University of Pittsburgh), Tamara Sumner and James Martin (University of Colorado)

Mobile G-Portal Supporting Collaborative Sharing and Learning in Geography Fieldwork: An Empirical Study
Yin-Leng Theng, Kuah-Li Tan, Ee Peng Lim, Jun Zhang, Dion Hoe-Lian Goh (Nanyang Technological University), Kalyani Chatterjea, Chew Hung Chang (National Institute of Education), Aixin Sun, Yu Han, Nam Hai Dang (Nanyang Technological University), Yuan-yuan Li (National Institute of Education)and Minh Chanh Vo (Nanyang Technological University)

5:30–8:00pm Conference Closing Session
Salon DEF

Saturday, June 23rd

8:00–9:00am Breakfast
Served in session rooms

9:00–4:00pm Workshops

Workshop 2: 1st Workshop on Digital Library Foundations
Salon A

Research on "digital libraries" addresses many different areas. The lack of any agreement on the foundations for this broad research field has led to a plethora of models, systems, and results that are difficult to combine and reuse to produce enhanced outcomes. This workshop will bring together researchers involved in laying the foundations for the digital library research field in order to discuss and explore their solutions in the context of a *reference model for digital libraries*.

This workshop will help in laying the foundations for digital libraries as a whole It will engage the international digital library community in producing a reference framework wherein new results can be integrated, compared, and discussed -- leveraging prior work on the definition of a Reference Model for Digital Libraries launched by the EU DELOS Network of Excellence on Digital Libraries. That effort began in Europe, but has expanded with the invitation of international collaborators. This workshop will be the first open meeting to broaden the effort even further. Our aim is to draw upon the understanding acquired by a number of research groups active in the digital library field. This

workshop intends to extend the participation in this activity to all researchers interested in the modeling of digital library aspects, in order to contribute to the consolidation of key concepts in this field.

Organizers:

- *Donatella Castelli*, Istituto di Scienza e Tecnologie dell'Informazione, Italy

- *Ed Fox*, Virginia Tech, USA

Workshop 4: 7th International Workshop on Web Archiving and Digital Preservation (IWAW '07)

Salon C

The Workshop is the 7th in the IWAW series (see iwaw.net). It will provide a cross domain overview on active research and practice in all domains concerned with the acquisition, maintenance and preservation of digital objects for long-term access, with a particular focus on web archiving and studies on effective usage of this type of archives. It is also intended to provide a forum for interaction among librarians, archivists, academic and industrial researchers interested in establishing effective methods and developing improved solutions for data acquisition, ingest, and accessibility maintenance.

The Workshop will consist of both invited as well as peer-reviewed contributions. A Call for Papers and list of topics is available on the Workshop's homepage at iwaw.net Reviews will be performed by a PC of about 10-15 PC members.

Organizers:

- *Julien Masanès*, European Archives, The Netherlands

- *Andreas Rauber,* Vienna Technical University, Austria

Workshop 5: Contextualized Attention Metadata: personalized access to digital resources (CAMA 2007)

Salon B

Effective and efficient access to relevant digital resources is one of the key challenges in digital libraries. Contextualized attention metadata (CAM) capture the attention that a user spends on such resources in a specific context. CAM enables us to better support the user in dealing with the information flood. Using CAM, filters can be devised that present new information only in the relevant context, for example by prioritizing incoming email based on the attention previously given to the topics of the email. Furthermore, CAM data can extend and amend user profiles thus enhances personalization in existing systems. CAM streams are collected from all applications that a user may interact with, including digital libraries, office suites, web browsers, multimedia players, computer-mediated communication and authoring tools, etc. CAM enables the identification and mining of patterns of user behavior. Such patterns can then be used to extend existing user modeling approaches, so as to enhance personalized access to digital libraries. However, in order to achieve this goal, algorithms and techniques need to be developed to merge and manage the large amounts of contextualized attention metadata. As different tools used by different people provide CAM data, the large amounts of data must be managed and merged to enable its correlation and the subsequent application of appropriate smart algorithms, for example, for (semi)automatic filer definition, etc.

This workshop is the second in the CAMA workshop series. The first highly successful workshop (CAMA 2006, organized at the ACM CIKM 2006 conference, Arlington, USA on 11th November 2006, http://ariadne.cs.kuleuven.be/cama2006/) mainly dealt with the collection of CAM. The present workshop aims to bring together researchers from different communities to discuss research work and issues on processing CAM data and enriching digital library applications, for instance by enriching content metadata with observations about user behavior with that content, to be used in improved management of content and personalization of access to content

Organizers:

- *Erik Duval*, Katholieke Universiteit Leuven, Belgium

- *Jehad Najjar*, Katholieke Universiteit Leuven, Belgium

- *Martin Wolpers*, Katholieke Universiteit Leuven, Belgium

Posters & Demonstrations

Wednesday, June 20, 7:00 to 9:00pm, Salon DEF

Posters

P1 Information System Media Education (ISM): Cooperating for Media Literacy
H. vom Orde (International Central Institute for Youth and Educational Television (IZI))

P2 Evolution of a Data Archive
J. Crabtree, D. Sheaves (University of North Carolina at Chapel Hill)

P3 Usage-based Metrics of Scholarly Impact
J. Bollen, M. A. Rodriguez, H. Van de Sompel (Los Alamos National Laboratory

P4 Digital Library Education: Some International Course Structure Comparisons
Y. Ma (Victoria University of Wellington), A. O'Brien (Loughborough University), W. Clegg (Victoria University of Wellington)

P5 Highly Structured Scientific Publications
R. B. Allen (Drexel University)

P6 Building a Digital Library of Traditional Mongolian Historical Documents
G. Khaltarkhuu, A. Maeda (Ritsumeikan University)

P7 What Do Faculty Need and Want from Digital Libraries?
F. McMartin (Broad-based Knowledge), A. Wolf (University of Wisconsin at Madison), G. Morgan (George Mason University), E. Iverson, C. Manduca (Carleton College), J. Morrill (Morrill Solutions)

P8 Use vs. Access: Design and Use in Educational Digital Libraries
F. McMartin, B. Muramatsu (Utah State University)

P9 Use of Online Digital Learning Materials and Digital Libraries: Comparison by Discipline
A. Wolf (University of Wisconsin at Madison), E. Iverson, C. Manduca (Carleton College), G. Morgan (George Mason University), F. McMartin (Broad-based Knowledge), J. Morrill (Morrill Solutions)

P10 The Cyberinfrastructure for Scholars Project: Componentized Architecture for Sustainable Scholarly Portals
A. Krowne, S. Martin, U. Gadi, M. Wedemeyer, M. Halbert (Emory University)

P11 Tagging Video: Conventions and Strategies of the YouTube Community
G. Geisler, S. Burns (The University of Texas at Austin)

P12 Building Cross-Browser Interfaces for Digital Libraries with Scalable Vector Graphics (SVG)
F. Molina, B. Sweeney, T. Willard (AAAS Project 2061), A. Winter (carto.net)

P13 PIM through a 5S Perspective
Y. Ma, E. A. Fox (Virginia Tech), M. A. Gonçalves (Federal University of Minas Gerais)

P14 DRIADE: A Data Repository for Evolutionary Biology
J. Dube, S. Carrier, J. Greenberg (University of North Carolina at Chapel Hill)

P15 Understanding Target Users of a Digital Reference Library
D. Rosner, J. M. Josling, A. Moed, E. Oreglia (University of California at Berkeley)

P16 AlouetteCanada Metadata Toolkit.
M. Jordan (Simon Fraser University)

P17 Educational Application Integration with Digital Repository
R. Chavez, A. Kumar, N. Schwertner (Tufts University)

P18 Examining Perception of Digital Information Space
J. D'Ignazio, J. Ryan, S. Harwell, A. Diekema, E. Liddy (Syracuse University)

P19 Tagging for Health Information Organisation and Retrieval
M. E. I. Kipp (University of Western Ontario)

P20 Blogger Perceptions on Digital Preservation
C. Hank, S. Choemprayong, L. Sheble (University of North Carolina at Chapel Hill)

P21 Cooperative Collection Building in NSDL MatDL Pathway through iVia Data Fountains
L. M. Bartolo, C. S. Lowe (Kent State University), J. Ruscheinski, D. Bisom (University of California at Riverside)

P22 Evaluating Digital Libraries with Webmetrics
M. Khoo (NSDL Core Integration), R. A. Donahue (WGBH Educational Foundation)

P23 Capturing Relevant Information for Digital Curation
C. Shah, G. Marchionini (University of North Carolina at Chapel Hill)

P24 Automated Collection Strength Analysis
C. Llewellyn (University of Liverpool), B. Rea (University of Manchester), R. Sanderson (University of Liverpool)

P25 Augmenting OAI-PMH Repository Holdings Using Search Engine APIs
M. Klein, M. L. Nelson (Old Dominion University), J. Z. Pao (NASA Langley Research Center)

P26 A Publisher of Last Resort: Enduring Document Access
G. Buchanan (Swansea University)

Demonstrations

Vannevar Bush Best Paper Award

The Vannevar Bush Best Paper Award ($1,000) is given to the best paper presented at JCDL. Congratulations to those on the shortlist (alphabetical by first author):

World Explorer: Visualizing Aggregate Data from Unstructured Text in Geo-Referenced Collections
Shane Ahern, Mor Naaman, Rahul Nair and Jeannie Yang

Children's interests and concerns when using the International Children's Digital Library: A four country case study
Allison Druin, Ann Weeks, Sheri Massey and Benjamin B. Bederson

Subject Metadata Enrichment using Statistical Topic Models
David Newman, Kat Hagedorn, Chaitanya Chemudugunta and Padhraic Smyth

Integrating Data and Text Mining Processes for Digital Library Applications
Robert Sanderson and Paul Watry

Can Social Bookmarking Enhance Search in the Web?
Yusuke Yanbe, Adam Jatowt, Satoshi Nakamura and Katsumi Tanaka

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