# Table of Contents

## User Modelling

Evaluating Electronic Textbooks: A Methodology .......................... 1  
*Ruth Wilson, Monica Landoni*

Search Behavior in a Research-Oriented Digital Library ................. 13  
*Malika Mahoui, Sally Jo Cunningham*

A Combined Phrase and Thesaurus Browser for Large Document Collections ........................................ 25  
*Gordon W. Paynter, Ian H. Witten*

Customizable Retrieval Functions Based on User Tasks in the Cultural Heritage Domain ............................. 37  
*Holger Brocks, Ulrich Thiel, Adelheit Stein, Andrea Dirsch-Weigand*

## Digitisation, Interpretation, and Annotation of Documents

Digital Watermark .......................................................... 49  
*Hamid Reza Mehrabi*

Document Classification and Interpretation through the Inference of Logic-Based Models ........................................ 59  
*Giovanni Semeraro, Stefano Ferilli, Nicola Fanizzi, Floriana Esposito*

The Cervantes Project: Steps to a Customizable and Interlinked On-Line Electronic Variorum Edition Supporting Scholarship ....................... 71  
*Richard Furuta, Siddarth S. Kalasapur, Rajiv Kochumman, Eduardo Urbina, Ricardo Vivancos-Pérez*

Fusion Approaches for Mappings between Heterogeneous Ontologies .... 83  
*Thomas Mandl, Christa Womser-Hacker*

Enhancing Digital Library Documents by A Posteriori Cross Linking Using XSLT .................................................. 95  
*Michael G. Bauer, Günther Specht*

Using Copy-Detection and Text Comparison Algorithms for Cross-Referencing Multiple Editions of Literary Works ...................... 103  
*Arkady Zaslavsky, Alejandro Bia, Krisztian Monostori*
# Table of Contents

## Knowledge Management I

An Architecture for Automatic Reference Linking .......................... 115  
*Donna Bergmark, Carl Lagoze*

Disambiguating Geographic Names in a Historical Digital Library .......... 127  
*David A. Smith, Gregory Crane*

Greenstone: A Platform for Distributed Digital Library Applications ...... 137  
*David Bainbridge, George Buchanan, John McPherson, Steve Jones,  
  Abdelaziz Mahoui, Ian H. Witten*

Linking Information with Distributed Objects .............................. 149  
*Trond Aalberg*

## Data and Metadata Models

Metadata for Digital Preservation: A Review of Recent Developments ...... 161  
*Michael Day*

MARIAN: Flexible Interoperability for Federated Digital Libraries ........ 173  
*Marcos André Gonçalves, Robert K. France, Edward A. Fox*

*Norbert Fuhr, Preben Hansen, Michael Mabe, Andras Micsik,  
  Ingeborg Solberg*

A Deposit for Digital Collections ......................................... 200  
*Norman Noronha, João P. Campos, Daniel Gomes, Mário J. Silva,  
  José Borbinha*

## Integration in User Communities

Digital Libraries in a Clinical Setting: Friend or Foe? ....................... 213  
*Anne Adams, Ann Blandford*

Interactive, Domain-Independent Identification and Summarization of  
Topically Related News Articles ........................................... 225  
*Dragomir R. Radev, Sasha Blair-Goldensohn, Zhu Zhang,  
  Revathi Sundara Raghavan*

Digital Work Environment (DWE): Using Tasks to Organize Digital  
Resources .............................................................................. 239  
*Narayanan Megyappan, Salim Al-Hawamdeh, Schubert Foo*

Learning Spaces in Digital Libraries ....................................... 251  
*Anita S. Coleman, Terence R. Smith, Olha A. Buchel,  
  Richard E. Mayer*
Ethnography, Evaluation, and Design as Integrated Strategies: A Case Study from WES .......................... 263
Michael Khoo

Dynamic Models of Expert Groups to Recommend Web Documents ...... 275
DaeEun Kim, Sea Woo Kim

Information Retrieval and Filtering

Enhancing Information Retrieval in Federated Bibliographic Data Sources Using Author Network Based Stratagems ......................... 287
Peter Mutschke

Architecture for Event-Based Retrieval from Data Streams in Digital Libraries ................................................................. 300
Mohamed Kholief, Stewart Shen, Kurt Maly

The Effects of the Relevance-Based Superimposition Model in Cross-Language Information Retrieval ........................................ 312
Teruhito Kanazawa, Akiko Aizawa, Atsuhiro Takasu, Jun Adachi

An On-Line Document Clustering Method Based on Forgetting Factors ... 325
Yoshitaru Ishikawa, Yibing Chen, Hiroyuki Kitagawa

Knowledge Management II

Towards a Theory of Information Preservation ............................. 340
James Cheney, Carl Lagoze, Peter Botticelli

C-Merge: A Tool for Policy-Based Merging of Resource Classifications .... 352
Florian Matthes, Claudia Niederée, Ulrike Steffens

Truth in the Digital Library: From Ontological to Hermeneutical Systems 366
Aurélien Bénel, Előd Egyed-Zsigmond, Yannick Prié, Sylvie Calabretto, Alain Milé, Andréa Iacovella, Jean-Marie Pínon

Multimedia Digital Libraries

XSL-based Content Management for Multi-presentation Digital Museum Exhibitions ................................................................. 378
Jen-Shin Hong, Bai-Hsuen Chen, Jieh Hsiang

Iterative Design and Evaluation of a Geographic Digital Library for University Students: A Case Study of the Alexandria Digital Earth Prototype (ADEPT) ........................................... 390
Christine L. Borgman, Gregory H. Leazer, Anne J. Gililand-Sweeland, Rich Gazan

Automatically Analyzing and Organizing Music Archives .................. 402
Andreas Rauber, Markus Frühwirth
Building and Indexing a Distributed Multimedia Presentation Archive
Using SMIL ................................................................. 415
Jane Hunter, Suzanne Little

Multilinguality
Digitization, Coded Character Sets, and Optical Character Recognition for
Multi-script Information Resources: The Case of the Letopis’ Zhurnal’nykh
Statei .................................................... 429
George Andrew Spencer

Document Clustering and Language Models for System-Mediated
Information Access ................................................ 438
Gheorghe Muresan, David J. Harper

Research and Development of Digital Libraries in China: Major Issues and
Trends .............................................................. 450
Guokui Li, Michael Bailou Huang

Panel 1
What’s Holding Up the Development of Georeferenced DLs? ............ 458
Michael Freeston, Linda L. Hill

Panel 2
Open Archive Initiative, Publishers and Scientific Societies: Future of
Publishing – Next Generation Publishing Models ...................... 459
Elisabeth Niggemann, Matthias Hemmje

Panel 3
Digital Library Programs: Current Status and Future Plans .......... 460
Erich J. Neuhold

Author Index ......................................................... 461
Research and Advanced Technology for Digital Libraries  
5th European Conference, ECDL 2001, Darmstadt, 
Germany, September 4-9, 2001. Proceedings  
Constantopoulos, P.; Solvberg, I.T. (Eds.)  
2001, XII, 462 p., Softcover  
ISBN: 978-3-540-42537-3