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

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
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

Digital Libraries: A Generic Classification and Evaluation Scheme .... 187
  Norbert Fuhr, Preben Hansen, Michael Mabe, Andras Micsik,
  Ingeborg Sølvberg

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 Meyyappan, Suliman Al-Hawamdeh, Schubert Foo

Learning Spaces in Digital Libraries ........................................ 251
  Anita S. Coleman, Terence R. Smith, Olha A. Buchel,
  Richard E. Mayer
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethnography, Evaluation, and Design as Integrated Strategies: A Case Study from WES</td>
<td>263</td>
</tr>
<tr>
<td>Michael Khoo</td>
<td></td>
</tr>
<tr>
<td>Dynamic Models of Expert Groups to Recommend Web Documents</td>
<td>275</td>
</tr>
<tr>
<td>DaeEun Kim, Sea Woo Kim</td>
<td></td>
</tr>
<tr>
<td><strong>Information Retrieval and Filtering</strong></td>
<td></td>
</tr>
<tr>
<td>Enhancing Information Retrieval in Federated Bibliographic Data Sources Using Author Network Based Stratagems</td>
<td>287</td>
</tr>
<tr>
<td>Peter Mutschke</td>
<td></td>
</tr>
<tr>
<td>Architecture for Event-Based Retrieval from Data Streams in Digital Libraries</td>
<td>300</td>
</tr>
<tr>
<td>Mohamed Kholief, Stewart Shen, Kurt Maly</td>
<td></td>
</tr>
<tr>
<td>The Effects of the Relevance-Based Superimposition Model in Cross-Language Information Retrieval</td>
<td>312</td>
</tr>
<tr>
<td>Teruhito Kanazawa, Akiko Aizawa, Atsuhiro Takasu, Jun Adachi</td>
<td></td>
</tr>
<tr>
<td>An On-Line Document Clustering Method Based on Forgetting Factors</td>
<td>325</td>
</tr>
<tr>
<td>Yoshiharu Ishikawa, Yibing Chen, Hiroyuki Kitagawa</td>
<td></td>
</tr>
<tr>
<td><strong>Knowledge Management II</strong></td>
<td></td>
</tr>
<tr>
<td>Towards a Theory of Information Preservation</td>
<td>340</td>
</tr>
<tr>
<td>James Cheney, Carl Lagoze, Peter Botticelli</td>
<td></td>
</tr>
<tr>
<td>C-Merge: A Tool for Policy-Based Merging of Resource Classifications</td>
<td>352</td>
</tr>
<tr>
<td>Florian Matthes, Claudia Niederée, Ulrike Steffens</td>
<td></td>
</tr>
<tr>
<td>Truth in the Digital Library: From Ontological to Hermeneutical Systems</td>
<td>366</td>
</tr>
<tr>
<td>Aurélien Bénél, Éléd Eyged-Zsigmond, Yannick Préé, Sylvie Calabretto, Alain Mille, Andréa Iacovella, Jean-Marie Pinon</td>
<td></td>
</tr>
<tr>
<td><strong>Multimedia Digital Libraries</strong></td>
<td></td>
</tr>
<tr>
<td>XSL-based Content Management for Multi-presentation Digital Museum Exhibitions</td>
<td>378</td>
</tr>
<tr>
<td>Jen-Shin Hong, Bai-Hsuen Chen, Jieh Hsiang</td>
<td></td>
</tr>
<tr>
<td>Iterative Design and Evaluation of a Geographic Digital Library for University Students: A Case Study of the Alexandria Digital Earth Prototype (ADEPT)</td>
<td>390</td>
</tr>
<tr>
<td>Christine L. Borgman, Gregory H. Leazer, Anne J. Gilliland-Swetland, Rich Gazan</td>
<td></td>
</tr>
<tr>
<td>Automatically Analyzing and Organizing Music Archives</td>
<td>402</td>
</tr>
<tr>
<td>Andreas Rauber, Markus Frühwirth</td>
<td></td>
</tr>
</tbody>
</table>
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
Guohui Li, Michael Bailou Huang

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

Panel 2
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
Constantopoulos, P.; Solvberg, I.T. (Eds.)
2001, XII, 462 p., Softcover
ISBN: 978-3-540-42537-3