DELOS NoE
on Digital Libraries

Evaluation Plans for TEL

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(Germany)
Comparative Evaluation of TEL and Daffodil

- Systems: TEL, Daffodil
- Evaluation framework
- Evaluation method
- Conclusion
Systems: TEL, Daffodil
ADVANCED SEARCH

On start up you search in the default list of collections. For more specific results choose your own collections.

1. SELECT COLLECTIONS
   - choose your own collections
   - reset: default list of collections
   - EU Online books, images, maps, music...
   - UK British Library integrated catalogue
   - PT Biblioteca Nacional (Portugal)
   - FR BN-OPALE PLUS
   - DE Online catalogue of the Deutsche Bibliothek
   - FI HELKA
   - IT SBN OPAC
   - NL General Catalogue Koninklijke Bibliotheek
   - CH HELVETICAT
   - SI National Library Catalogue (KatNUK)
   - HR Bibliographies of Books :

2. SPECIFY YOUR QUERY

Specify a query for one or more fields.

- Any field
- Title digital library
- Author
- Subject

Add more fields

SEARCH
Daffodil: Query formulation

- Data Sources: Google, BibDB, LeaBIB, BibDBIS, Achilles, ACM, PLib, CiteSeerIS, DBLP, HCIBIB, ArXiv, DBLPIS, Springer, CompuScience, GetInfo
- Data Types: Metadata, PDF, PS, DOC, PPT

- Filter: Yes
- Author: 
- Title: digital library
- Year: 
- Free-Text: 

Form Query

Search

N. Fuhr: Evaluation Plans for TEL 2/2/06
<table>
<thead>
<tr>
<th>Rank</th>
<th>Title</th>
<th>Authors</th>
<th>Language</th>
<th>Document Type</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>Designing and building integrated digital library systems - guidelines</td>
<td>Bente Dahl Rathje, et al.</td>
<td>eng</td>
<td>text, language materials, monograph</td>
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<td>2</td>
<td>LIDA 2005</td>
<td></td>
<td>eng</td>
<td>text, language materials, part</td>
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<td>3</td>
<td>Peer-to-peer, grid, and service-orientation in digital library architectures: 6th thematic workshop of the EU Network of Excellence DELOS</td>
<td>Can Tu¨rker, Maristella Agosti, Hans-Jo¨rg Schek, eds.</td>
<td>eng</td>
<td>text, language materials, monograph</td>
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<tr>
<td>4</td>
<td>Exploring the digital library: a guide for online teaching and learning</td>
<td>Kay Johnson and Elaine Magusin</td>
<td>eng</td>
<td>text, language materials, monograph</td>
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<td>5</td>
<td>Knowledge organization in digital environment in libraries (KODEL): introspect and prospects</td>
<td>M. Madhusudhan</td>
<td>eng</td>
<td>text, language materials, monograph</td>
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<tr>
<td>6</td>
<td>Digital terrain modeling: acquisition, manipulation, and applications</td>
<td>Naser El-Sheimy, Caterina Valeo, Ayman Habib</td>
<td>eng</td>
<td>text, language materials, monograph</td>
</tr>
</tbody>
</table>
Daffodil: Search progress

SearchService: Wrappers to go: 1 ..... 

- DBLPIS found 156 documents
- ACM found 41 documents
- Scirus found 0 documents
- BibDBIS found 37 documents
- BibDB found 123 documents
- CompuScience found 0 documents
- HCIBIB found 162 documents
- DOAJ found 0 documents
- PLib found 0 documents
- Springer2 found 0 documents
- Google found 0 documents
- Achilles found 58 documents
- CiteSeer2 found 15 documents
- LeaBIB found 2 documents
- CiteSeerIS found 168 documents
- GetInfo found 0 documents
- DBLP2
- ArXiv found 0 documents
Daffodil: Result list

1. Steven Pemberton
   The digital library.
   (2000) from DBLP; HCIBIB.

2. Fox, E.A. & Urs, S.R. & S.R.
   Digital libraries
   (2002) from BibDB.

3. Gail Mcmillan
   The Digital Library: Without a Soul Can It Be a Library?
   (2000) from CiteSeerIIS.

4. Wallace Koehler

5. Calvin Mackey; Bruce R. Barkstrom; Michelle Ferebee; Melinda Finch
   Digital library communities and change: Adapting digital libraries to continual evolution
   (2002) from ACM.

6. Greg Janée; James Frew
   Digital libraries for spatial data: The ADEPT digital library architecture
   (2002) from ACM.

7. John Ober
   The California Digital Library.
British Library integrated catalogue - UK -
197 objects with "digital library" have been found in 'British Library integrated catalogue'.

# 1

Designing and building integrated digital library systems - guidelines / by Bente Dahl Rathje … [et al.].

**AVAILABLE AT LIBRARY**

**Title**  Designing and building integrated digital library systems - guidelines / by Bente Dahl Rathje … [et al.].

**Author** Rathje, Bente Dahl.

**Type** text

- language materials
- monograph

**Language** eng

**Publisher** The Hague : International Federation of Library Associations and Institutions, c2005.

**ISBN** 9077897054 (pbk.)

**Location** British Library : DSC : 4363.305500 : no. 90

**Issued** 2005

**Extent** 65 p. ; 30 cm.

**tel:recordId** 013333529
Daffodil: Detail view

Digital library communities and change: Adapting digital libraries to continual evolution

Author(s):
- Calvin Mackey (Query for name) (Search for homepage)
- Bruce R. Barkstrom (Query for name) (Search for homepage)
- Michelle Ferebee (Query for name) (Search for homepage)
- Melinda Finch (Query for name) (Search for homepage)

Conference:
- Proceedings of the 2nd ACM/IEEE-CS joint conference on Digital libraries

Year: 2002
Month: July

Abstract:
In this paper, we describe five investment streams (data storage infrastructure, knowledge management, data production control, data transport and security, and personnel skill mix) that need to be balanced against short-term operating demands in order to maximize the probability of long-term viability of a digital library. Because of the rapid pace of information technology change, a digital library cannot be a static institution. Rather, it has to become a flexible organization adapted to cont ...
Systems: TEL vs. Daffodil

- **Commonalities:**
  - Front-end to a federation of heterogeneous digital libraries
  - User-friendly interface, supporting mouse-based interactions
  - Similar search dialogue

- **Differences**
  - TEL is browser-based (Javascript)
    - No setup for user
    - Limited mouse interaction
  - Daffodil uses a client written in Java
    - Setup (download & install) required
    - Richer mouse interaction
  - Daffodil desktop contains various tools
    - (some of them are applicable to the TEL domain)
Daffodil: Necessary changes and extensions

- Wrappers for the TEL libraries
  - Z39.50, SRU/SRW, OAI
- Query processing:
  - Incremental generation of result list (instead of waiting till all DLs have responded)
  - Initial result display: grouped by DL merging upon request
- Inclusion/adaption of tools:
  - Extraction of authors, keywords
  - Clipboard
  - Personal library
Collection

The European Library’s default collections:

- British Library integrated catalogue
- Biblioteca Nacional (Portugal)
- BN-OPALE PLUS
- Online-Katalog Der Deutschen Bibliothek
- HELKA
- SBN OPAC
- General Catalogue Koninklijke Bibliotheek
- HELVETICAT
- National Library Catalogue (KatNUK)
- Serbian Union Catalogue COBIB.SR
Users & Usage

- **Users:**
  - DL stakeholders
    - End users
    - Librarians

- **Usage:**
  task scenarios to be developed
Evaluation methods

- **Analytical evaluation:**
  *Is the design right?*

- **Empirical evaluation:**
  *Is it the right design?*
Analytical evaluation

- Analytical evaluation: 
  *Is the design right?*

Start of evaluation:
- Explores how the TEL and Daffodil interface facilities are useable, learnable and comparable

At the end of evaluation:
- Examines how the TEL and Daffodil interface facilities are in alignment with the user requirements gathered from the empirical evaluation
Empirical evaluation

Is it the right design?

Perspectives:

- User characteristics, preferences and strategies
- Types of activities that the users do (to plan the task scenarios)
- The environments in which TEL and Daffodil are used, in natural or controlled laboratory settings
Evaluation steps for empirical evaluation

- Acquisition of resources: equipment, instruction materials, recording technology, selection of representative users
- Briefing meetings with groups of users
- Search sessions and interviews with users
- Debriefing with groups of users
- Transcription of recorded data
- Data analysis
- Reporting
Conclusion

- Comparative evaluation of two similar systems
- Will yield valuable output wrt. strengths/weaknesses of the TEL system
- Basis for possible further development