KNOWeSCAPE related research @ SEMAG

Ana Alice Baptista - Algoritmi Research Center, University of Minho
Who am I?

- Algoritmi Research Center:
  - > 150 researchers; 87 integrated researchers;
  - Computer science, electronics and industrial management;
  - School of Engineering, univ. Minho;
  - SEMAG (software engineering and management research group);
  - Very small subgroup working on metadata and the semantic web.
University of Minho

- 2 campi;
- 11 schools/ institutes;
- 31 research centres;
- Included in the THE 100 under 50 ranking
Contents

• Prior Research;
• Current Research;
• Future.
Contents

- Prior Research;
- Current Research;
- Future.
Omnipaper
Controlled Vocabulary

Metadata Based and Combined Information Services

OAISTER  BASE  Google Scholar

Cross-Repository Formal Communication Layer

Citation Relationship
Controlled Vocabulary Specific Relationship
Data Flow

Recursive description
Before SKOS but compatível;

DSpace-dev - controlled vocabulary
The ACM Computing Classification System [1998 Version]

Copyright 2006, by the Association for Computing Machinery, Inc.

This XML derivative of The ACM Computing Classification System
For more information regarding the conversion, please contact:

For permission to use this version outside of the conditions set

-->

- <node id="acmccs98" label="ACMCCS98">
  - <isComposedBy>
    - <node id="A." label="General Literature">
      - <isComposedBy>
        - <node id="A.0" label="GENERAL">
          - <isComposedBy>
            <node label="Biographies/autobiographies"/>
            <node label="Conference proceedings"/>
            <node label="General literary works (e.g., fiction, plays)"/>
          </isComposedBy>
        </node>
      </isComposedBy>
    </node>
    <node id="A.1" label="INTRODUCTORY AND SURVEY"/>
    <node id="A.2" label="REFERENCE (e.g., dictionaries, encyclopedias)"/>
    <node id="A.m" label="MISCELLANEOUS"/>
  </isComposedBy>
</node>

- <node id="B." label="Hardware">
  - <isComposedBy>

DSpace-dev - controlled vocabulary. - ACM CCS
DSpace-dev - commenting
DSpace-dev - Web of Communication (WoC)
DSpace-dev - social tag importer

STAP - social tagging application profile
Knowledge base from early stages (data modeling) of software development processes (e.g. RUP)

Method for the development of DCAP

Analysis of 3 semi-structured interviews conducted to DCAP developers

State of the art on methodologies for the development of metadata application profiles

Me4DCAP - method for developing application profiles
Morgana Andrade - application profile for digital repositories

What are the readers looking for?
How can we use metadata records to give them what they are looking for?

http://repositorium.sdum.uminho.pt

http://www.dublincore.org/documents/interoperability-levels/

4: Description Set Profile Interoperability
   • Shared formal vocabularies and constraints in records

3: Description Set syntactic interoperability
   • Shared formal vocabularies in exchangeable records

2: Formal semantic interoperability
   • Shared vocabularies based on formal semantics

1: Shared term definitions
   • Shared vocabularies defined in natural language
A Plataforma DeGóis® é um instrumento de recolha, disponibiliz o seu promotor o MEC - Ministério da Educação e Ciência, atravé

ÁREA INVESTIGADOR

ÁREA PÚBLICA

http://degois.pt

http://repositorium.sdum.uminho.pt

Paulo Couto - knowledge maps + semantic web
Contents

- Prior Research;
- Current Research;
- Future.
Future

- Academic Information + semantic web - goal: interoperability and integration. LOD knowledge maps.

- Me4DCAP test and improvement;
Contents

- Prior Research;
- Current Research;
- Future.
Thank you

Questions