Report from NKOS Workshop 2009

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Workshop summary (1/2)

• Part regulars and part newcomers
• Presentations included KOS creation, management, and use
• 5/8 presentations involved existing KOS standards and library classification schemes (UDC, OPAC, DDC, ISO 25964)
  – Major portion of the subsequent discussions
• Some organizers and presenters could not attend
Workshop summary (2/2)

• Domains represented: aquatic sciences, economics
• Issues with mapping among different KOS’ in the same domain
• Most projects use controlled vocabularies and KOS’ for improved information retrieval
Three talks ...
User Interface Design for Search Term Recommendation and Interactive Query Expansion Services

- Paper prototyping of interface for search term recommendation
- Provides overall phrase recommendations (instead of just term)
- One finding: too early suggestions lead to confusion
- Mentions some useful work on search term recommendation
PERTAINS

- Combines suggested tagging with free tagging by users to improve quality of tags by users (metadata)
- Uses of collections from libraries as well as internet resources in education
- Connects with a controlled vocabulary
- Basis for suggestions
  - Using existing document metadata
    - Titles and abstracts
    - Classification terms and existing keywords (user tags)
  - Suggestions from controlled vocabulary
    - Matching against DDC (a standard) captions and relative index terms
STW (Thesaurus for Economics) web service applied to library applications

• Developed a web service to support query expansion for indexing and retrieval
  – works with a DSpace collection and a standard thesaurus, making use of SPARQL (language for RDF, can be used to query the Thesaurus, like SQL)
  – Simple architecture, can be replicated
  – Relevant people can be contacted for help with code
Suggestions for CTR (1/3)

- Using mobile technologies to get user input (since all may not have computers at the time of crises and tragedies)
- Scenarios checklists in recovery/training manuals as input for ontology
- Brute force method: put experts in a room with literature and give them 2-3 days to come up with a list of concepts (similar to our focus group studies work)
- Start with a sub-domain and develop a methodology for building and evaluating that part. Try to replicate for other sub-domains
Suggestions for CTR (2/3)

• Follow both a top-down and bottom up approach (similar to PERTAINS)

• Goal should be to connect literature (scientific articles) with internet resources and articles, so there is some credibility to tags on resources
  – First develop tags for literature (syntactic), then suggest those tags to user for articles/photos/other resources, and then confirm by showing other relevant articles (semantic)
Suggestions for CTR (3/3)

• Evaluation
  – Test information retrieval with and without ontology
  – Use IR metrics
Resources

- NKOS website – has several links, including listservs, publications, past workshops, : http://nkos.slis.kent.edu/
- NKOS 2009 website – has abstracts and presentation slides of talks mentioned here: http://www.comp.glam.ac.uk/pages/research/hypermedia/nkos/nkos2009/programme.html
- SKOS – Simple Knowledge Organization Systems: http://www.w3.org/2004/02/skos/
- Prodigy
- Sesame
- Holocaust DL: http://www.academicinfo.net/histhololibrary.html