

CSCE-675 Digital Libraries: Daily Readings

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I. VARIATIONS2: RETRIEVING AND USING MUSIC IN AN ACADEMIC SETTING [1]

Details:

- Year: 2006
- Type: Communications of the ACM - Music information retrieval
- Affiliations: Indiana University, Bloomington, IN

Take-away points:

- Variations 2 is a Java client-server application, that was developed to replace the original Variations in 2005.
- It allows students to search and retrieve music.
- It allows students and instructors to add timepoints between sections creating bubbles representing multi-level musical structures.

Questions to discuss

- The application uses very simple features of the musical records. The retrieval can be improved by using digital signals from music records.
- Interfaces specific to expertise of different users, like one for general users and another for expert users.
- The project doesn't mention Pandora genome project, which sounds to me is very close to what the paper is trying to do.

II. SUPPORTING ELEMENTARY-AGE CHILDREN'S SEARCHING AND BROWSING: DESIGN AND EVALUATION USING THE INTERNATIONAL CHILDREN'S DIGITAL LIBRARY [2]

Details:

- Year: 2007
- Type: Journal of the American Society for Information Science and Technology
- Affiliations: HumanComputer Interaction Lab, Department of Computer Science and College of Information Studies, University of Maryland, College Park, MD

Take-away points:

- The paper describes a search and browsing tool for elementary-age children (ages 6-11).
- They in particular want to overcome the challenges of boolean retrieval and heirarchy based browsing provided current search engines, as these features tends to be challenging to children.
- Their research shows that a at category structure, where only leaf-level categories are available and can be viewed simultaneously provides much better results.

Questions to discuss

- I don't agree with the claim of the authors use that children find writing queries difficult.
- The research should have been evaluated with a more diverse demography.
- Is this system currently in use.

III. VISUAL KNOWLEDGE: TEXTUAL ICONOGRAPHY OF THE QUIXOTE, A HYPERTEXTUAL ARCHIVE [3]

Details:

- Year: 2005
- Type: Oxford Journals Humanities Literary and Linguistic Computing
- Affiliations: Texas A&M University, College Station, TX

Take-away points:

- The paper describes a system to visualize Quixote.
- They give a specification of a comprehensive taxonomy of the episodes, adventures, themes and characters in the Quixote.
- They also plan to develop a tool to compare, juxtapose and collage related images from several editions, artists, etc., as part of our research to create new approaches and techniques to display images for analysis, beyond browsing and searching.

Questions to discuss

- What is the current state of this project?

IV. A MULTILINGUAL APPROACH TO TECHNICAL MANUSCRIPTS: 16TH AND 17TH-CENTURY PORTUGUESE SHIPBUILDING TREATISES [4]

Details:

- Year: 2007
- Type: JCDL '07 Proceedings of the 7th ACM/IEEE-CS joint conference on Digital libraries
- Affiliations: Texas A&M University, College Station, TX

Take-away points:

- In this paper the authors describe a scalable approach and a multilingual web-based interface for enabling a group of scholars to edit a glossary of nautical terms in multiple languages.
- Shipbuilding treatises are ancient technical manuals that describe properties of the wood and materials used (ship components), as well as the steps to be followed in the construction of a composite object (ship).
- Multilingual documents are source materials that researchers in other disciplines need to access for their scholarly work. Therefore, the authors expect that our approach can help other digital libraries repositories with multilingual documents.

Questions to discuss

- What is the current state of this project?
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REFERENCES

- [1] J. W. Dunn, D. Byrd, M. Notess, J. Riley, and R. Scherle, "Variations2: retrieving and using music in an academic setting," *Commun. ACM*, vol. 49, pp. 53–58, August 2006. [Online]. Available: <http://doi.acm.org/10.1145/1145287.1145314>
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