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International Workshop on Information Visualization Interfaces for Retrieval and Analysis (IVIRA) at the Joint Conference on Digital Libraries 2003

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Abstract

The IVIRA workshop has been organized to attract cutting-edge efforts that concentrate on improving information retrieval and analysis by applying visualization techniques in interface design.

1. Introduction

Voluminous and complex nature of information in digital libraries demands more powerful means of human-computer interaction than what is currently available. Advances in information visualization point to new possibilities for developing enhanced interfaces for improving retrieval, interaction, and management of data stored in digital libraries. We are planning to merge two successful JCDL workshops held last year (see section 5) and hold a single workshop this year.

2. Workshop scope

The workshop will cover both theoretical and experimental research on the development, usage, and evaluation of effective interfaces to digital libraries. Of particular interest is research that exploits visualization to support improved browsing, retrieval, analysis, and understanding of domains represented in digital libraries. Interfaces for the following types of resources are of special interest to this workshop:

- Textual documents (literature databases)
- Statistical data
- Multimedia or mixed-media data
- Geo-spatial data
- Genomics and proteomics data
- Time-variant or dynamic data

3. Workshop objectives

The main objectives are: 1) to increase awareness of the area of visual interfaces to DLs, 2) to identify new tools, techniques, and design methodologies for visual interfaces to DLs, 3) to learn about design approaches that support rich visualization functions in diverse systems ranging from desktops to mobile devices, 4) to develop frameworks, models, and theories of data access, management, and system evaluation, and 5) to provide a forum for generating new directions in research and development, identify funding sources, and support collaborations.

4. Expected audience

Researchers and practitioners with expertise and interest in information visualization, user interfaces for DLs, search/retrieval, human-computer interaction, interface design methodologies, and evaluation.

5. Related publications

More information on this year's and last year's workshops can be found at:

- http://vw.indiana.edu/ivira03/
- http://vw.indiana.edu/visual02/jcdl.html
- http://xtasy.slis.indiana.edu/jcdlui/uiws.html.

As with last year's visualization workshop, Springer-Verlag will be contacted to produce the workshop proceedings (see: http://www.springer.de/comp/lncs/).

6. Program committee

Katy Börner and Javed Mostafa,
Indiana University, Bloomington, USA (Chairs)
Kevin Boyack, Sandia National Laboratory, USA
Robin Burke, DePaul University, USA
Chaomei Chen, Drexel University, USA
Martin Dodge, University College London, UK
James French, Univ. of Virginia, Charlottesville, USA
Xia Lin, Drexel University, USA
André Skupin, University of New Orleans, USA
Kiduk Yang, Indiana University, Bloomington, USA