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Chapter 1 : 5S Framework for Digital Libraries

*Visual Interfaces to Digital Libraries (Lecture Notes in Computer Science) [Chaomei Chen] on calendrierdelascience.com *FREE* shipping on qualifying offers. Visual Interfaces to Digital Libraries exploit the power of human vision and spatial cognition to help individuals mentally organize and electronically access and manage large and complex information spaces.*

Every year ACRL extends recognition and honor to the winners of its awards. Nominate ACRL members are an integral part of our successful awards program. Please consider those who have influenced your thinking and your growth as an academic librarian. We urge you to nominate colleagues whose work you admire, and whose contributions merit recognition by the profession. Your nominations will insure that the pool of candidates for each award remains both competitive and distinguished. Informational flyers, complete with submission procedures, past winners, criteria, and contact information, are available through the ACRL office. December 6, , is the deadline for most of the awards to be presented in . A brief description of each award is listed below. Recognizes academic libraries that are outstanding in furthering the educational missions of their institutions. Recognizes an outstanding member of the academic or research library profession. Recognizes outstanding achievements including risk-taking in the areas of library automation, management, or development and research. Recognizes a librarian who has made distinguished contributions to bibliography and information service in law or political science. Recognizes an individual librarian for significant contributions to the advancement of instruction in a college or research library environment. Honors outstanding contributions to education and behavioral sciences librarianship through accomplishments and service to the profession. Grant that supports research pertaining to Western European studies, librarianship, or the book trade. Leab Exhibition Catalogue Awards. Leab, American Book Prices Current: Recognizes outstanding catalogues published by American or Canadian institutions in conjunction with library exhibitions. Instruction Section Publication of the Year Award. Recognizes an outstanding publication related to instruction in a library environment published in the last two years. This biennial award is given in odd-numbered years for the best English-language bibliography in the field of agriculture or a related science. We welcome your nominations and look forward to celebrating achievements in academic librarianship in . Over , NISO standards were downloaded in the first eight months of . In recent years, we have witnessed an erosion of the historic and crucial balance in copyright law among users, creators, and owners. This timely legislation will protect the interests of the public by restoring that balance. It resolves key concerns regarding hardware and software that permit significant non-infringing uses, and it allows researchers to engage in the scientific research of technological protection measures. Representative Boucher has been an outstanding champion of the library, school, and higher education communities. We look forward to working with Congressman Boucher, Congressman Doolittle and other members of Congress to move this important legislation forward. We urge members of Congress to support the DMCRA as essential to promoting research and education in a digital environment. They also provide much needed access to technology. Museums and Libraries Forge Links: With the introduction of DOIs, fundamental information management problems in the UK official sector can now be overcome, enabling all identifier types to be linked and metadata to be systematically organised across distributed digital environments. The use of DOIs will vastly simplify the software development task of suppliers and public sector IT staff. It will also help to solve the conundrum faced by information managers in Government of how to manage information across distributed networks and how to harvest and update metadata. The use of DOIs ensures integration with international standards and enables UK information assets to be networked globally and interoperably. Copyright Corporation for National Research Initiatives.

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Chapter 2 : Home | IAV Center

Part of the Lecture Notes in Computer Science book series (LNCS, volume) Abstract The accelerating rate of scientific and technical discovery, typified by the ever-shortening time period for the doubling of information - currently estimated at 18 months [1] - causes new topics to emerge at increasing speed.

A Guide to Rich-Prospect Browsing. From the Sumerians to Computerised Data Processing. Cambridge Scholars Publishing, Prototyping List-based Literary Research Tools. Lecture Notes in Computer Science. The Communicational Possibilities of Interaction Histories. Creating Contexts for Clarity and Meaning. Green and Patrick W. Taylor and Francis, Authorship Categories, Algorithms, and Visualizations. The Computer and Canadian Scholarship: Recent Trends in the Humanities and Social Sciences. New Interface Objects for the Humanities Scholar. Exploring the Health Information-Seeking Context. Design Features for Bibliophiles. Also includes English translation in insert. An Environment for Interacting with Play Scripts. Reprinted from Reassembling the Disassembled Book: Textual Methodologies and Exemplars. Koninklijke Bibliotheek, The Hague, Netherlands. Combining Visualization and Semantics. University of British Columbia, June , February , - St. Year 1 Research Foundations. Re-conceiving Watching the Script. Epistolary Text Mining for Intimate Language. Rio De Janeiro, Brazil. Books and New Knowledge Environments. October 30, , in conjunction with CIKM Emotional triggers in an online GIS-based information system for parks management and safety. Hong Kong Polytechnic University, Oct , Ruecker, Stan and Milena Radzikowska. The Hong Kong Polytechnic University. Issue Crawling for Chinese Adoption. Proceedings from the conference sponsored by COST User Aspects of Information and Communications Technologies. University of Art and Design. Ruecker, Stan and Rosan Chow. Hong Kong June , Osaka, Japan, Sept , Stanford, June , Avatar Design for the Simulated Environment for Theatre. Students Experiment with Humanities Data Visualization. The first eighteen months of a Major Collaborative Research Initiative. University of Alabama, March 5, Experimenting with Decision Support Visualizations. Illinois Institute of Technology. May June 2, Adding a Dimension to a Theatrical Visualization Interface. An embeddable text analysis widget. An analysis of the Day of DH data. Three Historical Case Studies. May June 1, Galey, Alan and Stan Ruecker. Supporting collections-level text analysis. Wiki Affordances and Organizational Work. Ottawa ON, June Searching for Malefic Sexuality. The Dense Associative Web of Orlando. University of Chicago, New Directions in Text Analysis. Using the Mandala Browser to Explore Orlando. The Digital Humanities in the Humanities. Extending a Venerable List in a Digital Context. Qualitative Query Potential in Orlando. Querying text and image archives for collaborative scholarship. University of Illinois at Urbana-Champaign. University of Saskatchewan, Saskatoon. Women in the Knowledge Economy and Society conference. University of Alberta, Edmonton. Chow, Rosan and Stan Ruecker. Creating Usable Interfaces for Seniors. Oct 28 - Nov 2, The role of visual communication design in interface research. Congress of the Humanities and Social Sciences: May 30, Ruecker, Stan, Lisa M. Given, Bess Sadler, and Andrea Ruskin. Similarity Clustering of Pill Images. Royal College of Art. Ruecker, Stan and Zachary Devereaux. The Face of Text. Ruecker, Stan and Susan Liepert. May June 6, University of Alberta, Edmonton May , University of Alberta, Edmonton October , Oxford January , Copenhagen April , Watching the Script and the Simulated Environment for Theatre. Bischof, Michelle Annett, and Fraser Forbes. INKE designs and prototypes to make working with digital text more enjoyable and rewarding. Humanities Visualization in Action. University of North Carolina, Charlotte. The Practice of Humanities Interface Design. Teaching and Research Using Technology in the Humanities. Arts for the Next years. Supporting User Experiments with Digital Collections. Annual Showcase and Conference. Collaborative Research in Design and Humanities Computing.

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Chapter 3 : Xia Lin | Drexel University - calendrierdelascience.com

Visual Interfaces to Digital Libraries (Lecture Notes in Computer Science) (1st Edition) by Chaomei Chen (Editor), Editor-Katy Borner, Katy Börner (Editor) Paperback, Pages, Published

We believe providing digital files rather than streaming video is important to the goals of the project and better serves the research and education communities. Our partnerships with contributors have been substantial and are expanding. The Informedia Project has contributed about 30 hours of its government documentary video, including extensive metadata and transcripts. Rick Prelinger contributed several of his ephemeral films early on in the project, and today we point to most of his entire archive, which is available in the Internet Archive [4]. We have a cooperative agreement with NASA for 16 additional programs and are working with professors around the world to add selected videos they can use in their classes. Visitors come in nearly equal numbers from the. The database schema has been revised over time, from the initial schema of one table with a dozen attributes to the current schema that includes about 15 tables and attributes including all primary and foreign keys [5].

Open video architecture The browse interface presents access clusters by genres documentaries, educational, lectures, ephemerals, historical , duration less than a minute, minutes, minutes, minutes, and more than 10 minutes , color color or black and white , sound with sound or silent , and contributing organization e. For each category, posting data is given for the number of segments in that category. This layout provides an overview of the entire collection as well as browse access. Browse facilities are available at all levels of the interface. The search interface supports three kinds of search. Attribute search provides pull-down menus or radio buttons for key attributes such as genre or producer. This offers a quick way to partition the database into videos with specific characteristics of interest. Two types of text-based search options are also available. An input field is provided for user-entered queries matched on the full text search of bibliographic records as well as transcripts for those videos with transcripts available. A pull-down menu of keywords that can be used as search criteria is also available. Once the user has partitioned the database through top-level search or browse tools, increasingly detailed overviews for partitions and previews for specific segments become available. Techniques for "looking ahead" before moving to a more detailed level or beginning to download a video file are an important part of the AgileViews interface framework. These "look aheads" are particularly crucial to practical work with video libraries containing many very large files. Figure 2 , for example, shows the results page displayed when a user selects the "historical" genre from the browse page. When the user "hovers" places the mouse over the details icon for a video, a brief description of that video appears in a pop-up box. Clicking on the details icon yields the full bibliographic record including a tab option for the bibliographic record for the full video to which the segment belongs and a tab to a visual preview for the segment shown in Figure 3. At any of these points in the interaction, the user can begin to download the complete segment. Video description displayed in pop-up Figure 3. Video preview page Backend "technical services" operations are depicted in Figure 1. We aim to use as many open source tools developed by others as we can in order to focus on video curation and user interface development and evaluation. Some of the newer content is arriving on digital tapes. At present we manually segment the tapes, either before digitizing or in real time. Although excellent segmentation algorithms exist, manual segmentation gives our students first-hand experience with the content. In some cases, instructors provide segmentation parameters specific to class plans for tapes they want to digitize. Once digitized, segments are saved with systematic names on a disk array. Segmentation and digitization have been done on Wintel systems, but we are shifting some of this to a Macintosh platform. We have used a variety of techniques for keyframe extraction. This software extracts keyframes without decompressing the MPEG-1 files. In other cases, we use our own scripts and Java programs [8] to extract keyframes from video files using nth-frame algorithms. We have also done a small amount of manual keyframe extraction. After keyframes have been extracted, we manually prune the keyframes and identify representative poster frames using our own Web-based applications. At present,

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keyword identification and implementation as text or audio is mainly a manual process. For videos that have keywords as part of the metadata record, we use those terms. In other cases, we have been manually assigning keywords with a two-person team, one to identify and one to validate. Once assigned, keywords are automatically added to the pull-down menu in the keyword search facility on the Web site. To produce audio implementations of keywords, a speech synthesizer is used to insure audio consistency although some terms must be rerecorded or adjusted to improve accuracy. Files can either be contributed directly for storage and management in the OVDL or providers can maintain their own files while OVDL simply maintains the metadata and hyperlinks to the files. Our primary effort is devoted to the creation and evaluation of highly interactive user interfaces that allow people to select representations and control them quickly and easily to achieve their information-seeking needs. The design framework guiding this effort is the concept of AgileViews. We aim to give people several classes of views: See Figure 4 and Figure 5 for examples of this research direction. An agile views storyboard preview Figure 5. An AgileViews shared view showing user recommendations For the OVDL, we have focused on developing surrogates to help people quickly understand video gist which includes perceptual and media-specific senses of the content and thus gain quick overviews or previews allowing rapid decision making about whether to obtain more detailed surrogates or the full video segment. We have been working with three types of surrogates and variations within them: Slide shows display keyframes at rapid intervals e. They minimize screen real estate and thus avoid window management loads for users. Storyboards display an array of keyframes. They consume screen real estate and even though they tend to require more user time to perform tasks due to repeated visual scanning, most users have shown a preference for the storyboards. For both slide shows and storyboards, we have experimented with textual and audio keywords added to the keyframes. Fast forwards implemented by choosing every nth frame provide some sense of motion and may make it easier for people to detect narrative lines. Our studies suggest that people tend to like fast forwards [Wildemuth et al. User Studies To address our theoretical research goals, we are guided by a user study agenda that includes performance and preference-dependent measures as well as four classes of independent variables influencing these measures see Figure 6. One of our central contributions is developing and validating the variables and measures in this research agenda. The independent variables and facets of interest are: The tradeoffs will ultimately lead to a cost-benefit tradeoff function guiding the kinds of alternative views we provide in the OVDL interface. Studies integrating different overview and preview surrogates are planned for The studies aimed to establish some of the boundary conditions that will help us determine default settings for display speeds and keyword supplements. A study currently underway uses eye-tracking to determine how people use displays of search results having visual poster frame plus several keyframes and textual cues in the results lists. A study is planned to compare inline and pop up displays of poster frames in results lists. Thus, the study goals are to both inform designs for the OVDL and other digital video interfaces and to develop metrics for assessing video retrieval behavior. User study framework Plans and Future Directions There are several threads of work planned for the coming months. In addition to the ongoing user studies that inform the AgileViews framework and interfaces for DLs, we will be looking for ways to make patron contributions more automatic. At present, contributors must provide some minimal set of metadata, and we manually work with them to insure their contributions are appropriate and properly distributed. Automating the process will require more than simple forms. Early on we had an upload form with a few required metadata fields but removed this as too simplistic an approach. We are debating whether to use the Internet Archive and ibiblio collection development policy approach that allows anything to be harvested or contributed and only remove it if there are complaints; or to use a more traditional collection development policy that uses a review board or librarian filter to accept contributions. We are developing a number of specialized tools as we gain more experience with the OVDL. Eventually, these tools should be integrated into a digital librarian toolkit. We endeavor to use open source tools whenever possible, and the programs we develop are licensed under GPL licenses. The environment provides a private or shared video window, a text chat window, a shared web browser window, and a multicast video window, as

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well as tools for managing the communication process. Xiangming Mu has also developed the VAST tool for selecting nth frames of video and converting the resulting "fast forwards" into QuickTime surrogates see Wildemuth et al. Richard Gruss has developed scripts to crawl digital video websites and extract metadata. Another tool is a peer-to-peer tool for librarians to view and exchange video segments as part of the contribution and collection development processes. This tool has been prototyped by Richard Gruss and will be developed for use by our regular contributors and partners. Meng Yang has begun work on a metadata viewer tool that aims to aid librarians with manual indexing or metadata editing. The ISEE tool is well along and has been demonstrated at meetings such as the Internet 2 conference in the summer of . These and other tools continue to evolve and, over time, we hope to create an integrated toolkit that can be shared with other DLs. Finally, we are concerned with longitudinal evaluation of DLs. Our perspective is to use a multi-faceted evaluation approach [Marchionini,] that integrates different sources of evidence from human e. We are learning by doing and aim in this article to share some of the practical experiences of building and maintaining a digital video library. We are driven by theoretical and practical goals and strive to leverage the synergy of working toward both ends. Our user interaction research goals have been well served by the efforts to build the production system, thus confirming the possibility of useful interactions between theory and practice. Finally, we hope others will use the library and contribute to it, and we hope the library will serve as a useful public resource and test bed for a variety of research questions. Thanks also are due to the other members of the The Open Video Project team: References [Card] Card, S. The information visualize; an information workspace. D-Lib Magazine February: Evolving video skims into useful multimedia abstractions. Improving Access to a Digital Video Library. Paper presented at the Human-Computer Interaction: Browsing key frames at high rates using a video slide show interface. Multimodal surrogates for video browsing.

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Chapter 4 : [] Flexible and Extensible Digital Object and Repository Architecture (FEDORA)

Practical Digital Library Generation into DSpace with the 5S Framework. Gorton, D. C. Master's Thesis. Department of Computer Science, Virginia Tech. PDF.

First Monday, Volume 12, Number 4 April What is popular on Wikipedia and why? The Benefits of Skimming in Data Fusion. Milwaukee, WI, November , Volume 43, Issue 4 July Charlotte, NC, October 28 - November 2, Information Visualization Dalbello, M. Proceedings of the 11th International Conference on Information Visualization. Zurich, Switzerland, July , Zurich, Switzerland, July 2, Visualizing Meta Search Results: Evaluating the MetaCrystal toolset. Austin, TX, November 3 - 8, Workshop on Measuring Web Search Effectiveness: New York, NY, May 18, Providence, RI, November 13 - 18, Toward Enhancing Search Visualizations. Austin, TX, October 10 - 12, Proceedings of the 8th International Conference on Information Visualization. London, England, July 14 - 16, London, England, July 13, New York, NY, May 17 - 22, Visual Interface for Meta Searching. Vienna, Austria, April 24 - 29, A Visual Tool for Information Retrieval. Readings in Information Visualization: Using Vision to Think. Morgan Kaufmann , pp. Originally published in Seattle, WA, July , ACM Press , p. Panel - Information Visualization: Orlando, Florida, July , ACM Press , pp. Boston, MA, April , Washington, DC, November , San Jose, October , Visual Tools for Information Retrieval. Bergen, Norway, August , Philadelphia, PA, November , Lausanne, Switzerland, August , Spoerri A. Portland, OR, July Vehicle Navigation Spoerri, A. Novel Route Guidance Displays. Ottawa, Canada, October , Computer Vision Spoerri, A. The Early Detection of Motion Boundaries. London, England, June 8 - 11,

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Chapter 5 : D-Lib -- In Brief (October)

Lecture Notes in Computer Science , Springer , *Visual Interfaces to Digital Libraries: Motivation, Utilization, and Socio-technical Challenges*.

Details the behavior of DL services Societies Model Community; managers; actors; classes; relationships; attributes; operations Object-oriented modeling constructs; design patterns Defines managers; responsible for running DL services; actors, that use those services; and relationships among them Publications Automatic Evaluation of Digital Libraries with 5SQual. Laender, and Edward A. Journal of Informetrics, 3 2: Lecture Notes in Computer Science Springer , pp PDF Personal digital library: In Proceedings of the First Ph. PDF "What is a good digital library? WDL , 20 Oct. Integrating Browsing, Searching, and Visualization. Torres, and Edward A. PDF Streams, structures, spaces, scenarios, societies 5s: A formal model for digital libraries. Goncalves, and Edward A. Computer Science Virginia tech. September 16 - 18, Lecture Notes In Computer Science, vol. In Modern Information Retrieval. Database Programming and Design, 11 8: Listing of these publications and their references. BibTex of these publications as determined by citeulike. Department of Computer Science, Virginia Tech. A Modeling Tool for Digital Libraries. Current Projects Personal digital library:

Chapter 6 : dblp: Visual Interfaces to Digital Libraries

Chaomei Chen's Resume: Book () Visual Interfaces to Digital Libraries. Visual Interfaces to Digital Libraries. Lecture Notes in Computer Science, v.

Chapter 7 : Knowledge visualization | Psychology Wiki | FANDOM powered by Wikia

Proceedings of the 70th Annual Meeting of the American Society for Information Science and Technology. Milwaukee, WI, November , Milwaukee, WI, November , Spoerri, A. ().

Chapter 8 : Henschen, Larry | Faculty | Northwestern Engineering

Skupin, A. () Cartographic Considerations for Map-like Interfaces to Digital Libraries. First ACM+IEEE Joint Conference on Digital Libraries (JCDL '01). Workshop on Visual Interfaces to Digital Libraries.

Chapter 9 : Publications - Anselm Spoerri

Part of the Lecture Notes in Computer Science book series (LNCS, volume) Abstract A textual collation is a process in which a base text is compared against several comparison texts to identify differences (variants) among them.