SDP 05 eScholarship Repository

SDP 05.1 People

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SDP 05.2 Overview

Institutional repositories are often seen as the solution—or at least a step in the right direction—for a number of different problems facing the academic world. Problems such as the scholarly communication crisis that have resulted from rapidly increasing journal subscription prices to the ability of libraries to house and preserve copies of journals that have gone electronic can all addressed by institutional repositories. Repositories, because of their web-based nature, are also claimed to bring additional benefits to those authors who deposit in them such as increased citation rates and new metrics for assessing use of materials (e.g., download statistics and page hits). Institutional repositories also fit with the open access agenda, specifically utilizing Open Archive Initiative standards to support dissemination of bibliographic data to web-harvesters. By the nature of being “institutional”, institutional repositories have behind them many resources that disciplinary repositories may not have. Name recognition, longevity, and funding sources are among the institutional advantages when compared to subject repositories that may be scattered across many different locations.

SDP 05.3 Approach

We are building an architecture for data integrity and quality in wireless sensing systems. The eScholarship Repository is part of a larger data ecology along with Sensorbase.org, CENS Deployment Center, and other realtime data integrity initiatives such as Confidence. Each of these systems captures part of the data context, and linked together overcome the limitations of isolated systems, creating a robust description for each dataset thereby supporting reuse.

SDP 05.4 System Description

CENS has maintained a web-accessible bibliographic database of publications since its inception, but this system has not scaled well to meet the needs of researchers or aged well in light of web 2.0 functionalities. The eScholarship Repository is an institutional repository maintained by the UC System, which allows schools, departments, and research centers to deposit their documents. The repository provides an array of access, distribution, maintenance, and curation services.

The metadata in the repository is more bibliographic in nature, and more expressive than our existing bibliographic database, which allow for more sophisticated discovery tools, such as filtering by author and subject. When we made the move to eScholarship we made the commitment to clean each record in order to restore lost functionality. Cleaning each record includes but is not limited to: re-entering author information; entering a richer description of the resource including subject, abstract, journal or conference information; researching publisher copyright information and tracking down the appropriate version of the item to be posted in accordance with the copyright statement of each publisher. Once clean, the CENS eScholarship Repository will allow us to perform social network analysis based on collaboration and co-authorship to augment our research findings.

SDP 05.5 Accomplishments

- New fields for bibliographic description were identified and requested from bePress (the service provider)
- With the help of two CENS summer interns, materials from the '07-'08 year were cleaned and uploaded to the eScholarship Repository
• We have developed a plan for removing, cleaning, and re-uploading the existing data to take advantage of fields that were added at our request, and to clean up the records that have not yet had authors split out

• We have liaised with the California Digital Library, who are responsible for the eScholarship Repository, with regards to features we would like to have added to their front-end redesign

SDP 05.6 Future Directions

• We will continue to add items to the repository

• We will continue to assist authors in the repositing process

• We will follow the plan for cleaning the rest of the records