SDP 07 eScholarship Repository

SDP 07.1 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 be 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 07.2 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 07.3 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. The repository also serves as a platform for generation social network analysis data.

SDP 07.4 Accomplishments
• 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
• To support CENS authors who need to upload their works, we have developed an Annual Report Upload System that supports all of the data gathering activities that are part of the Annual Report writing process, including a part to capture the bibliographic data necessary for depositing new publications in eScholarship

SDP 07.5 Future Directions
• We will continue to add items to the repository
• We will continue to assist authors in the depositing process
• We will follow the plan for cleaning the rest of the records