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. As CENS winds down we are looking towards the long-term sustainability of the eScholarship Repository and how we can take what we have learned with developing a repository for CENS and apply it to the larger institutional community.

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.

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 generating social network analysis data. Work within this project includes the regular upload and maintenance of materials in the eScholarship Repository, as well as finding new ways to make submitting publications easier or better incentivized.

Accomplishments
The work being done within this project received attention earlier this year from a UCLA campus-wide initiative addressing the concerns of faculty needing to draft data management plans for NSF funding proposals. As one of the few projects at UCLA where work was being done to tie together data collected during research and publications, we are uniquely poised to present a solution that could be scaled up to meet the needs of researchers across UCLA and the broader UC System. We submitted a proposal detailing how we would like to further develop the approach we are taking at CENS and how it could be scaled up to meet the needs of the community beyond CENS. CENS is an excellent testbed for this work given the diversity of CENS members which span from computer science and engineering to marine biology and seismology to statistics and education. To develop a publication and data repository that works for all these members we have need to leverage the common practices, which tend to fall within reporting to institutions and funders. Systems that assist researchers in their reporting tasks, such as submitting annual reports to funders or materials to review/tenure committees can then take advantage of these tasks for deposit of materials in repositories.

In addition to the proposal submitted, we have collected feedback on the Annual Report System that was developed for last year’s reporting cycle, and requested changes to the system in preparation for the current reporting cycle. Updates include an auto-complete function for filling out names of people and clarifications of wording and examples throughout the system.
Future Directions

• We will continue to add items to the repository
• We will continue to assist authors in the depositing process
• We will begin work on developing the CENS approach to the larger UCLA community