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Engineering a New Home: Creating a Repository Collection for Faculty

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Engineering a New Home

Creating a Repository Collection for Faculty

EMILY STENBERG  ■  DIGITAL PUBLISHING & PRESERVATION LIBRARIAN
LAUREN TODD  ■  ENGINEERING SUBJECT LIBRARIAN
WASHINGTON UNIVERSITY IN ST. LOUIS

Spruce Villa, 1948, CC BY-NC-ND 2.0
https://www.flickr.com/photos/whitbyarchives/2382796841
HISTORY OF OPEN SCHOLARSHIP AT WASHINGTON UNIVERSITY IN ST LOUIS

Eads Bridge, 1874
https://www.flickr.com/photos/mohistory/16521256329/
Highlights in Open Scholarship

- 2011 – Faculty Senate adopts Open Access Resolution
- 2012 – Open Scholarship (Digital Commons) initiated by University Libraries
- April 2013 – Digital Publishing & Preservation Librarian begins
- April 2014 – First conversation about CSE
- July 2014 – Two runs of undergraduate research journals added
- November 2014 – Open Scholarship and Law Library repositories merge
Browse Research & Scholarship

- Academic department, school, or college
- Books, monographs, and catalogs
- Conferences and symposia
- Data and data sets
- Electronic theses and dissertations
- Faculty scholarship
- Journals and peer-reviewed series
- Student scholarship

The Open Scholarship repository is a service of the Washington University in St. Louis libraries to provide free access to the scholarly output of the university. See the About and FAQ pages for links to details on mission, content and contributing.

At a Glance

Top 10 Downloads
All time

Recent Additions
20 most recent additions

Paper of the Day

Differentiation of Writing and Drawing in Preschool Children
Shoko Otake
Emily’s Expectations

SELF-ARCHIVE

ALL THE JOURNAL ARTICLES
The Reality
The Reality

- Majority of materials in Open Scholarship were ETDs
- Faculty articles from 4 departments: Social Work, Psychology\(^1\), Biology, and Mathematics\(^2\)
- Workshops in June/July 2014 for the library on adding faculty publications were well attended but little impact…

1. One article from 2011
2. Same subject librarian for these two departments
Snapshot 2013

● Dec. 2013: 1,161 Items / 106,471 Downloads
  ● Graduate ETDs = 974
  ● Undergraduate Work = 67
  ● Faculty Publications = 75
  ● Other = 45
COMPUTER SCIENCE & ENGINEERING DEPARTMENT
AND OPEN SCHOLARSHIP

Analog Computer
https://www.flickr.com/photos/x-ray_delta_one/7751056502/
Word of Mouth

“The Computer Science & Engineering department is looking for a repository tool for their publications, theses and dissertations. I am recommending to the department chair and project coordinator that they look into Open Scholarship to see if it might fit their needs.”
Lauren’s Reaction

Not sure what open scholarship is
Q&A for CSE Tech Reports

- **Whose materials are being submitted?**
  Faculty and students, both graduate and undergrad

- **What type of content is being submitted?**
  Typically technical reports, theses and dissertations, with the possibility of adding pictures, videos, and other documents later. Journal and conference article reprints should be possible, depending on copyright laws.

- **Are these print-only or electronic materials?**
  These would initially all be .pdf documents, with eventually the possible addition of graphics, video, and audio files as well as possibly archive files of software packages.
Q&A for CSE Tech Reports

- What type of access do you want to provide? The standard is full, open access. Restriction options are generally available for previously unpublished works, such as ETDs.

  This would be open access.

- What is your timeline for having the materials available in the repository? Is this a one-time or ongoing project?

  This is an ongoing project, and we would like everything to be available as soon as possible. Ideally, for unpublished technical reports, availability should be mostly immediate, e.g., as what is available from a repository such as arXiv.

  If there is the need to verify copyright compliance prior to posting a version of a published journal or conference article, a lag of no more than a week is desirable.
Open Scholarship = Perfect Match
The Players

Emily Stenberg
Lauren Todd
Librarians

The Players

Roch Guerin
CSE Department Chair

Tao Ju
CSE Professor
The Players

Lauren Huffman
CSE Project Manager

Student Worker X
Excel Coder
The Process

- CSE Open Scholarship
  - New Technical Reports
  - Older Technical Reports
The Submission Form

- Standard OS
- CSE OS

KEEP IT SIMPLE, STUPID
Recommended Citation

Digital Commons automatically generates recommended citations for all submissions. To override the default suggested citation, please enter citation information below.

Enter recommended citation (optional)

Upload File

Upload file from your computer
- Import file from remote site
- Link out to file on remote site

Publication Status

Was this submission previously published in a journal? BePress will automatically create an OpenURL for published articles. Learn more about OpenURLs
- Yes
- No

Notes to Administrator

Enter requests to the administrator, such as new department affiliations, here. This information will not be publicly displayed.

DOI

Enter the publication’s Digital Object Identifier (DOI)

Additional Files

Please check this if you’d like to add additional files
**Upload File**

- Upload file from your computer
- Import file from remote site
- Link out to file on remote site

**Notes to Administrator**

Enter requests to the administrator, such as new document types, here. This information will not be publicly displayed.

**Additional Files**

Please check this if you’d like to add additional files

[ ]

[Cancel] [Submit]

This may take a while. **Please only click once.**

**Comments**

Include an identifier number or any other relevant information. This information will be publicly displayed.
Submission Structure

- Submit to one Series/Collection: cse_research
- Set up filters to group materials by Document Type to sub-Collections

Browse the Computer Science and Engineering Collections:

All Computer Science and Engineering Research
Conference and Workshop Papers
Conference Posters
Journal Articles
Reports
Customization Requests

- Replicate the look of the old CSE site
- Improve the Advanced Search function
• Able to display additional metadata fields on the “Series Index page”
• Copied on individual sub-collection pages

Research from 2014

PDF Exploring User-Provided Connectivity
Mohammad H. Afrasiabi and Roch Guerin
Technical Report

Abstract:
Network services often exhibit positive and negative externalities that affect users’ adoption decisions. One such service is "user-provided connectivity" or UPC. The service offers an alternative to traditional infrastructure-based communication services by allowing users to share their "home base" connectivity with other users, thereby increasing their access to connectivity. More users mean more connectivity alternatives, i.e., a positive externality, but also greater odds of having to share one's own connectivity, i.e., a negative externality. The tug of war between positive and negative externalities together with the fact that they often... Read More

PDF Data Transport System
Rahav Dor
MS Project Report

Abstract:
To facilitate the WU Smart Home research [21] we built a system that collects data from
Search function is through Digital Commons

+ Can’t customize at Series (collection) level

= “Feature requests” to Customer Support
The Launch

Submit
- Staff/Professor Uploads File to CSE Collection

Accept
- Subject Librarian revises and accepts submission

Assign
- Subject Librarian assigns TR number based on their system
The Collection Page(s)

http://openscholarship.wustl.edu/cse/

COMPUTER SCIENCE AND ENGINEERING

Department Chair: Roch Guérin

The Department of Computer Science & Engineering trains future educators, researchers and engineers through an intensely personal engagement in a set of research activities that span the development of fundamental knowledge about computational processes, the design of new computing systems and methods, and the creation of novel applications that benefit society at large. The emphasis on interdisciplinary research facilitates engagement with departments across the University and promotes novel uses of information technology across a wide range of disciplines. This collection will contain technical reports, scholarly articles, conference and workshop papers, and conference posters created within the Computer Science & Engineering department.

Browse the Computer Science and Engineering Collections:

- All Computer Science and Engineering Research
- Conference and Workshop Papers
- Conference Posters
- Journal Articles
- Reports
The Tweaks

- Too Fast, Too Slow?
- Report Numbers
Batch Uploading Old Reports

1. Student Worker Codes in Excel Spreadsheet
2. CSE Project Manager shares files in Google Docs
3. Run Script
4. Subject Librarian uploads to BePress
5. Success!
What is this Google Batch thing?

- Workflow using Google Drive, a “getURLS App script,” and Excel for easier batch upload
- See engagedscholarship.csuohio.edu/msl_facpub/105/ (Cleveland State University, 2014)
By the Numbers

- 235 Technical Reports from 2009 to present
- 242 items total in CSE
- 2673 Downloads
- 221 downloads for a report from 2012
Snapshot 2014

• Dec. 2014: 4,836 Items / 259,879 Downloads
  • Graduate ETDs = 1,254
  • Undergraduate Work = 2,707
  • Faculty Publications = 375
  • Other = 500

• Dec. 2014 (with Law Content): 13,025 Items / 1,228,504 Downloads

1. 2606 individual pages from 21 undergraduate journals
2. 242 from CSE project
Then and Now

Open Scholarship Content

<table>
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<tr>
<td><strong>Total # Items</strong></td>
<td>1000</td>
<td>5000</td>
<td>6000</td>
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More with Engineering!

- Completing transfer of Tech Reports 2006-2008
- Establishing other engineering collections
  - Mechanical Engineering Design
  - Technical Writing
  - Retrospective Chemical Engineering ETDs
- Assigning DOIs to Technical Reports
Lessons for the Libraries

- If you preach it, they will come.
- Work with the converted.
- It takes a village.
- Replicate success.
- Apply workflow to other collections
Questions? Comments? Concerns?

Thank you!

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lauren.todd@wustl.edu

http://onwardstate.com/2013/07/23/the-26-gifs-that-even-more-perfectly-describe-penn-state/conan-bowing/