Open Source Alternatives to Digital Commons

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Brian Huffman, University of Hawaii
Erik Beck, Sacramento State University
Leah Prescott, Georgetown University
Kathy McCarthy, TIND.io

Why is this via WebEx?
Erik and David are both employed by the State of California. South Carolina is on the travel ban list due to its active enabling of discrimination against its LGBT residents.
Campaign for Southern Equality

Consider offsetting your travel to South Carolina by making a contribution to the Campaign for Southern Equality

https://southernequality.org
“Life Cycle” of Legal Scholarly Publishing
Research to Publication

1. Conduct research and create working draft
   a. Upload to SSRN (or LawArXiv!!)

2. Submit to journals
   a. Via Expresso or Scholastica

3. Publication

4. Deposit in IR
Current Landscape
Digital Commons Market Share

Of the 206 ABA-accredited law schools, 82 of them are currently using Digital Commons as their institutional repository.
Why Digital Commons?

1. Hosted solution
2. Provides platform for journal publishing and symposia
3. Sophisticated search engine optimization
Why not Digital Commons?

1. Now owned by Elsevier!!
   a. History of opposing open-access scholarship

2. One vendor controls entire “eco-system” of legal scholarly publishing:
   a. Expresso
   b. SSRN
   c. Digital Commons
Alternatives
Major Open-Source IR Projects

1. Dspace
2. Tind (Invenio)
3. Samvera
   a. Islandora
   b. Hyku
4. EPrints
5. Omeka? (not really)
What’s missing?

1. Journal hosting
   a. Open Journal Systems (OJS) may be viable alternative

2. Symposia hosting
   a. Ubiquity Press working on a Hyku-based IR for symposia along with OJS-based journal hosting platform
Tech Specs
How it’s made

1. Ruby on Rails
   a. Samvera options (Hyku, etc.)
   b. Not used widely in academia

2. Python
   a. Invenio (Tind written in Python with Flask frontend)
   b. Heavily used in academia

3. Java
   a. Dspace (front-end has been rewritten in Angular)
Pros/Cons

• Easier to find technical support for Python vs. Rails
• Python is gaining market share
• Tind is a small Norwegian company (but using software from CERN)
• Dspace no longer seen as cutting edge (but new version coming!)
Cost Considerations

- Digital Commons runs about $25K a year
- Tind has fairly similar pricing
- Self-hosting an IR can reduce costs
- Consider labor costs!
Examples

1. Dspace (Texas Digital Library) - https://tdl-ir.tdl.org/
2. Islandora (Florida State University) - https://diginole.lib.fsu.edu/repository
3. Tind/Invenio (Cal Tech Data) - https://data.caltech.edu/
5. Samvera/Hydra (California State University) - http://demo.digital.calstate.edu/
DSpace: Overview & UH Experience

Brian R. Huffman,
Electronic Services Librarian, University of Hawai‘i Law School
In a Nutshell

- DSpace = DuraSpace
- Developed by MIT Libraries and Hewlett-Packard (HP) Labs
- Released in 2002
- Over 1000 institutions using
- Can customize user interface
- Written in Java, tested under Linux, Windows, and Mac OS X
Features that make DSpace an ideal IR:

- Dublin Core metadata support
- Customizable workflows, submission forms that can be defined on a per collection basis
- OAI-PMH (Open Archives Initiative Protocol for Metadata Harvesting)
- Embargo, licensing and other access control features
- Very good Google Scholar indexing results
- OpenAIRE compliant
Our DSpace Experience

- Run DSpace 5; version 7 is soon to be released
- Costs to UH: server ($1K/yr); salary: 2 full-time equivalents (one IT, one librarian); add any digitization costs, data entry, etc. depending on projects. FTE does more than just DSpace support.
UH Open Access Policy

- UH Mānoa is listed on ROARMAP: Registry of Open Access Repositories Mandatory Archiving Policies. UHM is one of over 700 research institutes and universities with an Open Access Policy.

- Policy: http://go.hawaii.edu/fZX
How is this Accomplished?

Through the Academic Library: The University of Hawai‘i at Mānoa Library, Desktop Network Services Unit, will maintain the institutional repository. Faculty librarians and staff facilitate the submission of the scholarly articles and are available for consultation about the procedures.
Meet Our Institutional Repositories: ScholarSpace and eVols

ScholarSpace = scholarly works
(articles typically presented in peer-reviewed scholarly journals and conference proceedings)

eVols = digital publications
(a home for material which the Library or the University digitizes as part of grant projects and digital library program initiatives) Examples: Merrie Monarch Festival programs, Hawai‘i Medical Journal
<table>
<thead>
<tr>
<th></th>
<th>ScholarSpace</th>
<th>eVols</th>
</tr>
</thead>
<tbody>
<tr>
<td>Begun</td>
<td>2006</td>
<td>2009</td>
</tr>
<tr>
<td>Submissions</td>
<td>47,571 records</td>
<td>56,636 records (mostly newspapers)</td>
</tr>
<tr>
<td>Number of communities, authors and subjects</td>
<td>620 communities/sub-communities; approx. 28,400 authors [not submitters]; approx. 38,000 subjects added</td>
<td>167 communities/sub-communities; approx. 5,700 authors [not submitters]; approx. 13,000 subjects added</td>
</tr>
<tr>
<td>Number of collections or sub-communities</td>
<td>3040 collections</td>
<td>638 collections</td>
</tr>
<tr>
<td>Largest Contributor</td>
<td>Linguistics</td>
<td>Hawaiian and Pacific Collection</td>
</tr>
</tbody>
</table>

Source: Daniel Ishimitsu, Hamilton Library, DNS, University of Hawai‘i at Mānoa, Oct. 11, 2018
Usage, 2015-19

Downloads/Views by Month

# of Views  # of Downloads

[Graph showing downloads and views by month from January 2015 to May 2019]
Our IR - at a Glance

Use IR for faculty scholarship and faculty archives (Jon Van Dyke Collection)

- 28 Law Professors have their scholarship in the IR
- 401 scholarly works

Also use eVols: have Law School entering class photos (1973-2018) and Law School catalogs (1973-2019)
## Our IR - at a Glance (2015-19)

<table>
<thead>
<tr>
<th>Child Community/Collection</th>
<th>Total Downloads</th>
<th>Total Views</th>
<th># of Items</th>
</tr>
</thead>
<tbody>
<tr>
<td>Faculty and Researcher Scholarship</td>
<td>116574</td>
<td>34094</td>
<td>402</td>
</tr>
<tr>
<td>Jon Van Dyke Collection</td>
<td>10622</td>
<td>12203</td>
<td>1495</td>
</tr>
<tr>
<td>Law School Catalogs, 1973-2019</td>
<td>919</td>
<td>1343</td>
<td>42</td>
</tr>
<tr>
<td>School of Law Photo Guides, 1973-2018</td>
<td>1303</td>
<td>2240</td>
<td>45</td>
</tr>
</tbody>
</table>
William S. Richardson School of Law Archives

Collections within this community

Collections

- Law School Catalogs, 1973-2011
- School of Law Photo Guides, 1973-2018

Browse the Community

Date  | Author  | Title  | Subject  | Date issued
-----|---------|-------|----------|------------

Discover

Author

- University of Hawaii School of Law

Subject

- David L. Callies 36
- Law School 36
- Law schools--Hawaii 36
- Ronald C. Brown 36
- Universities and colleges--Curricula Catalog 36

Date issued

- 2010 - 2017 3
- 2000 - 2009 10
- 1990 - 1999 8
- 1980 - 1989 14
- 1973 - 1979 14

Recent Submissions

- 2017-2018 Entering Class and Transfers
- 2016-2017 Entering Class and Transfers
- 2008-2009 Entering Class and Transfers
- 2004-2005 Entering Class and Transfers
- 2001-2002 Entering Class and Transfers
- 2015-2016 Entering Class and Transfers
- 2014-2015 Entering Class and Transfers
- 2013-2014 Entering Class and Transfers
- 2012-2013 Entering Class and Transfers
Islandora Scholar

Erik Beck,
Head of Library Information Systems
California State University, Sacramento
Fedora-based Repositories

Islandora, Samvera, etc.

Fedora


https://commons.wikimedia.org/wiki/File:Bank_counter_at_Blists_Hill_Victorian_town.jpg
Fedora-based Repositories

Islandora, Samvera, etc.

- User Interface
- Search Engine and Index
- Content Viewers
- Metadata manipulation
- Ingest process
- Access control
- etc.

Interaction between systems via RESTful APIs

Fedora

- File Storage
- Persistent key
- Links object with metadata record
- Administrative metadata
What is Islandora?

- Developed at University of Prince Edward Island’s Robertson Library
- Fully open source
- Built to operate within a Drupal website and CMS
- Very modular, add new features through Drupal’s module system
- Fully configurable user interface that can be manipulated through Drupal’s theme system.
- Uses Solr search engine for object retrieval and metadata indexing
- Offers a variety of ingest workflows and description forms for different kinds of objects
- Offers a variety of different viewing tools for different object types like pdfs and book objects
Content Models

Islandora is configured to respond differently to different types of content.

Common Content Models:

- PDF
- Image
- Audio
- Video
- Book
- Newspaper
- Citation
- Thesis

https://gph.is/1NY66GG
Islandora Scholar

Suite of modules that interact with the Citation and Thesis content models to produce features that are normally associated with an Institutional Repository...

- Display dynamically-formatted citations in a variety of styles (APA, MLA, Chicago, etc.) from data derived from the object’s MODS record
- Integration with several persistent ID standards (DOI, PMIDs, Endnote, etc.) and ability to pre-populate records with metadata commonly associated with the object through its PID.
- Embargo functionality
- Integration with Sherpa/RoMEO to display access policies
- Displayable usage statistics
- Translate an object’s metadata to Google Scholar-compatible microdata which are exposed in the meta tags of each record page so that repository objects can be crawled
Islandora Scholar continues to be actively maintained by the Islandora developer community. Last commit on the project was April 8th, 2019.

There are several large universities using Islandora Scholar for their IR, including Boston College and Florida State University.

Currently, Islandora Scholar is only available for Drupal 7.

The Islandora Developer Community just unveiled Islandora 8 this past week! This is the new version of Islandora that can run on Drupal 8.

No word yet on when other Islandora modules will be ported over to version 8 or if Islandora Scholar will be included.
Costs

- **Servers** - Recommended minimum specs: 4-6 cores, 16GB - 32GB RAM, large volume of storage for repository data (2 TB at CU Law)

- **Systems Administration** - Installing Islandora requires intermediate-level unix skills and a firm understanding of Ubuntu system architecture.

- **Web Development** - You’ll need a Drupal developer. Preferably a good one.

- **Content Management** - The ingest workflow can be really involved. You’ll devote a lot of time to metadata creation and asset management.

- **QA Testing** - Because something always goes wrong, and you’ll have no one to blame but yourself.
Digital Commons is our institutional repository
DSpace is our digital library system
Foreign Intelligence Law Collection Overview

How to Search the Foreign Intelligence Law Collection

Collections in this community

I. Statutory and Regulatory Authorities
II. Legislative Histories
III. FISC/FISCR Opinions
IV. FISC/FISCR Orders
V. Non-Specialized Article III Decisions
VI. Official Reports and Judicial Correspondence
VII. Annotated Bibliography of Select Secondary Materials

BROWSE ALL ITEMS
Opinion, In re Certification of Questions of Law to the Foreign Intelligence Surveillance Court of Review

Bryson, William C., 1945-. (United States Foreign Intelligence Surveillance Court of Review, 2018-03-16)

Holdings, Findings, and Matters of Law

Finding that Movants have adequately established Article III standing to assert their claim of a qualified First Amendment right of public access to FISC judicial opinion. Particularly, Movants have demonstrated that the denial of access to the redacted materials constituted an injury in fact.

Holdings, Findings, and Matters of Law

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HPA No. 2015-296 (In re. 1223 4th Street NW)

- **HPA No.**: 15-206
- **Case Name**: In the Matter of 1223 4th Street NW
- **Location of Property**: 1223 4th Street NW, Square 523, Lot 20
- **Date of Order**: June 24, 2016
- **Disposition**: Denied
- **Subject Matter(s)**: Windows; Alteration (Including Addition); Compatibility; Mayor’s Agent-Procudural

**Summary:**

The homeowner added a third window on the second floor of a rowhouse in the Mount Vernon Square Historic District. While the house was built in 2007 and was noncontributing to the historic district, the Historic Preservation Review Board (HPRB) in 2006 had approved the design of the current rowhouse as a condition of its permission to demolish the rowhouse that had previously stood on the site and that had lost integrity through neglect. The approved design of the new rowhouse had two windows on the second floor, which the HPRB had decreed to be consistent with the facades of four historic neighboring rowhouses.

After adding a third window, the owner sought an after-the-fact building permit for the alteration. Following a hearing, the Mayor’s Agent rejected the application.

As in previous cases, the Mayor’s Agent stated that ignorance of the historic preservation law is no excuse. See, e.g., In Re: 2422 Tracy Place, NW, HPA No. 2013-630 (Aug. 25, 2014). The Mayor’s Agent reasoned that even noncontributing buildings in a historic district “should respect the rhythm of its neighbors as well as that of the street,” and that the question of whether two or three second floor windows best reflected that “rhythm” had already been decided by the HPRB when it approved the design of the rowhouse in 2006. As in other cases, for questions of style and material compatibility, the Mayor’s Agent deferred to the historical and architectural expertise of the HPRB. See In Re: 2225 California St. NW, HPA No. 2011-472 (Feb. 24, 2013).

**Files in this item**

- **Name**: Final decision and order.pdf
- **Size**: 1148 bytes
- **Format**: PDF

**Creator:**


**Permalink:**

http://hdl.handle.net/10823/1541.196

**Date:**

2016-06-24

**Subject:**

Historic District, Alteration (Including Addition); Windows; Compatibility; Mayor’s Agent; D.C. Administrative Procedure Act;

**Collections:**

Mayor’s Agent Decisions

**Metadata:**

Show full item record
Internet Archive


Files in this item

- Name: 2nd_circ_74_2177.pdf
- Size: 1.0MB
- Format: PDF

Creator:

United States. Court of Appeals (2nd Circuit)

DSpace Record
“The Library has used DSpace as the repository platform to host and manage its digital and institutional repository collections since 2011. With some other repository platforms further developed and available over time, it is time for the Library to assess if DSpace remains the best repository option for Georgetown.”

- Perform a needs assessment to develop functional requirements for digital and institutional repository collections;
- Build criteria and requirements to evaluate the different platform;
- Identify and evaluate the top three to five top commercial and/or open source digital repository systems;
- Report findings and recommendations.

*From Task Force charge*
● Commercial vs. Open source

○ DSpace
○ Islandora
○ Fedora+Blacklight
○ Samvera/Hyrax and Hyku
• Commercial vs. Open source

  ○ DSpace
  ○ Islandora
  ○ Fedora+Blacklight
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- Commercial vs. Open source
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• Commercial vs. Open source
  ○ DSpace
  ○ Islandora
  ○ Fedora+Blacklight
  ○ Samvera/Hyrax and Hyku
TIND IR
Kathy McCarthy, VP Partnerships
ABOUT TIND
PRODUCT OFFERING

TIND ILS
Integrated Library System for print and e-resource management.

TIND IR
Institutional Repository for All traditional research outputs.

TIND DA
Digital Archive for digitized content and special collections.

TIND RDM
Research Data Repository for capturing datasets and software.
SOFTWARE AS A SERVICE
Annual subscription.

PLATFORM
HOSTING
UPDATES
SUPPORT
STRONG FOCUS ON UNIVERSITIES
WHY TIND IR?
WHY TIND IR?

1. Unique hybrid of open source and commercial
   • Less reliance on local staff resources
   • No in-house developers needed

2. Ability to manage more than just publications
   • IR + DA: Millersville University, UN Headquarters
   • IR + RDM: University of Chicago
   • IR + ILS: Olin College of Engineering

3. Opportunity to collaborate on development
   • Small customer base means YOUR needs are prioritized
TIND IR FEATURES
CUSTOMIZABLE SUBMISSION FORMS
Based on OAIS reference model and PREMIS data dictionary.
DIGITAL OBJECT IDENTIFIERS
Assign DOIs to make publications easily and uniquely citable.

DataCite
FIND, ACCESS, AND REUSE DATA

Basic Information

- Digital Object Identifier
  10.5281/zenodo.16535

Optional. Did your publisher already assign a DOI to your upload? If not, leave the field empty and we will register a new DOI for you. A DOI allows others to easily and unambiguously cite your upload.

Pre-reserve DOI ✔️
DIGITAL PRESERVATION

Long term preservation of your publications.

FILE FORMAT CONVERSION

FIXITY CHECKS

OPEN AIRE COMPLIANT
DEMO