Deep Blue / Michigan Research Experts Integration, Next Century Library Share Summit

Welzenbach, Rebecca

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Deep Blue / Michigan Research Experts Integration
Rebecca Welzenbach, Research Impact Librarian
Next Century Library Share Summit
November 14, 2018
The Michigan Research Experts Information Architecture

- University of Michigan Feeds
  - Person metadata
  - Grants metadata
- Shibboleth SSO
  User authentication to support single sign on
- External data feeds
  - Dimensions
  - Scopus
  - Google Scholar
  - Crossref
  - Web of Science
  - arXiv.org
  - Europe PubMed Central
  - CInii
  - PubMed
  - RePEc
  - dblp

Altmetric
Online attention tracking for over 12m outputs

Elements
Research Information Management solution for data collection, curation and enrichment.
Profile data claimed or added by UM research is used to automatically populate downstream systems including Dimensions Profiles, UMIR Deep Blue Repository and other reporting tools.

Deep Blue
Institutional Repository (Dspace)

Dimensions
Discovery and analysis platform for data fed from UMIR Elements system. Currently includes:
- 4,859 experts
- 240,564 publications
- 17,640 grants
- 11,901 patents
- 1,895 clinical trials

Dimensions Profiles
Richly interlinked research database used by UMIR to analyse global research and contextualise their work. Currently includes:
- 97m publications
- 4.1m grants
- 424k clinical trials
- 361k policy documents

MICHIGAN RESEARCH EXPERTS
https://experts.umich.edu

Elements
Data source for additional UMIR Granth, Patents and Clinical Trials not yet captured in Elements

Dimensions
Enhanced PDF Viewer for OA articles in Dimensions Profiles and Dimensions Plus

Source: Byrne, Kate and Stephen Cawley. Connections, Collaborations, & Impact: Data-Driven Approaches to Understanding institutional research expertise. Digital Science case study. October 2018 (pending publication)
This is a diagram showing the underlying information architecture and connections behind Michigan Research Experts.
RT2 - Repository Integration

Add a to-do

1. Please confirm all possible ways of how content is currently ingested into the IR. [2 comments] (Completed by Jim Ottaviani on 12 Sep)
2. If you have an existing IR, how many items does it currently contain? [3 comments] (Completed by Jim Ottaviani on 12 Sep)
3. What repository platform is your IR based on? [2 comments] (Completed by Igor Kondrashov on 11 Sep)
4. Do you require one way or bidirectional sync? [2 comments] (Completed by Igor Kondrashov on 11 Sep)
5. If you use a third party to host or maintain your IR please confirm provider. [1 comment] (Completed by Igor Kondrashov on 11 Sep)
6. Do you maintain the IR server in-house or is it a hosted service? [2 comments] (Completed by Igor Kondrashov on 11 Sep)

Add a to-do

- Confirms that Deep Blue folks can log in to their Elements accounts [1 comment] (Completed by Rebeca Welzenbach on 11 Oct)
- Review repository tools integration documentation [8 comments] (Completed by Jim Ottaviani on 2 Oct)
- Beeswarm training for the Deep Blue Team (Jim Ottaviani, Martha Stitt, Jose Blanco, Becky Welzenbach) We want to make sure we’re following best practices and that we assign appropriate roles (who checks off that tasks are complete, etc.) – Not sure who to assign this to, so starting w/ Igor. Please reassign as appropriate. Or, if a full session doesn’t seem needed, perhaps we can confirm practices and roles on our next weekly call. (Completed by Igor Kondrashov on 25 Sep)
- Create a table of all the metadatas in DeepBlue [2 comments] (Completed by Igor Kondrashov on 25 Sep)
- Configure the repository API [5 comments] (Completed by Igor Kondrashov on 25 Sep)
- Provide details of current repository software [1 comment] (Completed by Igor Kondrashov on 30 Aug)
- Ports and Firewalls [Completed by Igor Kondrashov on 10 Aug]
- Request Repository Licence from Symplectic [Completed by Igor Kondrashov on 10 Aug]

To-do lists

Add a to-do

RT2 - Harvest Crosswalks

- Build the crosswalk map file (at least 0.5 day per object type intended for harvest) [8 comments] (Evelina Buiclag - Fri, Nov 2)
- Take full backup of Elements, enable verbose logging, limit volume of data for testing phase (1 day) [Evelina Buiclag - Mon, Nov 5]
- Test and review crosswalk (1 week) [Jim Ottaviani - Mon, Nov 12]
- Adjust and retest crosswalk (1 week) [Evelina Buiclag - Mon, Nov 19]
- Enable harvest (1 day) [Jim Ottaviani - Tue, Nov 20]

Add a to-do

RT2 - Deposit Crosswalks

- Identify functionality required for crosswalk [Jim Ottaviani - Tue, Nov 27]
- Build the crosswalk map file (at least 0.5 day per object type intended for deposit) [Evelina Buiclag - Tue, Dec 4]
- Take full backup of Elements, enable verbose logging, limit volume of data for testing phase (1 day) [Evelina Buiclag - Wed, Dec 5]
- Test and review crosswalk (1 week) [Jim Ottaviani - Mon, Dec 10]
- Adjust and retest crosswalk (1 week) [Evelina Buiclag - Thu, Dec 13]
- Enable deposit (1 day) [Jim Ottaviani - Fri, Dec 14]

Add a to-do
<table>
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<tr>
<th>Underlying field in Elements</th>
<th>data type</th>
<th>Default mapping field usage</th>
<th>Default source field in Repository</th>
<th>artefact Field usage for type 'artefact'</th>
<th>Source field for type 'artefact'</th>
<th>book Field usage for type 'book'</th>
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