Invenio vs Dspace

Collection

Invenio: Collection

- Metadata are organized into collections
- Collection tree
  - For navigation by users
- Can have regular and virtual child

Multimedia

Narrow by collection   Focus on

[ ] Videos   BBC Pictures and Videos

Dspace: Collection

Communities

Select a community to browse its collections.

- Abdul Latif Jameel Poverty Action Lab (J-PAL)
- Air Transportation Research
- Biological Engineering Division
- Center for Energy and Environmental Policy Research
- Center for Global Change Science
- Center for Innovation in Product Development (CIPD)
- Center for International Studies (CIS)
- Center for Reflective Community Practice (CRCP)
- Center for Technology, Policy, and Industrial Development (CTPID)
- Comparative Media Studies
- Computer Science and Artificial Intelligence Lab (CSAIL)
- Department of Aeronautics and Astronautics
- Department of Architecture
- Department of Biology
- Department of Brain and Cognitive Sciences
- Department of Chemical Engineering
- Department of Chemistry
- Department of Civil and Environmental Engineering
- Department of Earth, Atmospheric, and Planetary Sciences
- Department of Economics
- Department of Electrical Engineering and Computer Sciences

Department of Biology

Search within this community and its collections:

[_____] Go

Advanced Search

Sub-communities within this community

Theses - Biology

Theses - Biology

Search within this community and its collections:

[_____] Go

Advanced Search

Collections in this community

Biology - Bachelor's degree
Biology - Master's degree
Biology - Ph.D. / Sc.D.

Dspace: Collection

- No need of customization
- Just keep on adding subcollections
- Creates redundancies

Theses – Biology

Search within this community and its collections:

[   ] Go

Advanced Search

Collections in this community

Biology - Bachelor's degree
Biology - Master's degree
Biology - Ph.D. / Sc.D.

Theses – Chemistry

Search within this community and its collections:

[   ] Go

Advanced Search

Collections in this community

Chemistry - Bachelor's degree
Chemistry - Master's degree
Chemistry - Ph.D. / Sc.D.

Invenio: Collection

- A bit challenging to setup
- Use query to create linkages to setup virtual collection

Invenio: Collection

- ## Easy to navigate

Main Collection

Narrow by collection

Focus on

- Books ( )
- Thesis ( )
- Reports ( )
- Proceedings ( )

- Technology( )
- Biodiversity( )
- …….

Dspace: Collection

- May create confusion

Main Collection

collection

- Books ( )
  - Technology( )
  - Biodiversity( )
  - ….
- Thesis ( )
  - Technology ( )
  - Biodiversity( )
- Reports ( )
  - Technology ( )
  - Biodiversity( )
- …

Volume in developing institutions

Invenio: Volume

CERN Document Server

Over **900,000** bibliographic records, including **360,000** fulltext documents, of interest to people working in particle physics and related areas. Covers preprints, articles, books, journals, photographs, and much more.

Search 1,027,883 records for:

[_____] [any field ▼] [**Search**] [**Browse**]

Search Tips :: Advanced Search

NEW Check out photos and videos of the LHC First Physics.

Narrow by collection:

☑ **Articles & Preprints** (890,211)
  Published Articles (316,182) Preprints (516,377) Theses (16,718) Reports (5,568)
  CERN Internal Notes (15,278) Committee Documents (22,407)

☑ **Books & Proceedings** (71,682)
  Books (46,364) Proceedings (16,870) Standards (8,452)

☑ **Presentations & Talks** (16,991)
  Conference Announcements (14,992) Academic Training Lectures (608) Summer
  Student Lectures (617) General Talks (767) Videotapes (293)

☑ **Periodicals & Progress Reports** (2,816)
  Periodicals (2,211) Progress Reports (606)

☑ **Multimedia & Outreach** (51,104)
  Photos (13,596) Videos (1,089) Press (31,541) Audio Archives (436) Exhibition
  Objects (179) Brochures (119) Posters (486) HEP Institutes (2,069) Experiments
  at CERN (933) Internet Resources (656)

Focus on:

CERN Articles & Preprints (94,963)
CERN Published Articles (51,998) CERN Preprints (16,304) CERN Theses (3,258) CERN
CERN Series (15,471)
CERN Annual Reports (2) CERN Yellow Reports (1,131) CERN Theory (12,508) Acaden
General Talks (767)
CERN Departments (76,013)
Accelerator Technology (AT) (5,181) Accelerators & Technology Sector (19,117) Beams
Finance (FI) (1,133) Human Resources (HR) (170) Information Technology (IT) (4,291) P
Technical Support (TS) (1,385) Technology Department (TE) (88)
CERN Experiments (21,647)
Fixed Target Experiments (34) LEP Experiments (5,547) LHC Experiments (15,528) Re
CERN R&D Projects (904)
CERN Accelerator R&D Projects (904)
Archives (55,362)
CERN Archives (50,861) Pauli Archives (3,788) DSU Archives (713)

Invenio: Volume (collections, records)

- 500 + collections
- 1 million records

Dspace: volume of resources

Browsing by Title

Or enter first few letters: [   ] Go

Sort by: [title ▼] Order: [ascending ▼] Results: [20 ▼] Update

Now showing items 1-20 of 38912   Next Page

"Datum for its own annihilation" : feedback, control, and computing, 1916-1945
Mindell, David A. (David Avram) (*Massachusetts Institute of Technology*, 1996)

"Decision support systems: the design process"
Scott Morton, Michael S. (*[Cambridge, M.I.T.]*, 1973)

The "factory" approach to large-scale software development : implications for strategy, technology, and structure
Cusumano, Michael A. (*Cambridge, Mass. : Sloan School of Management, Massachusetts Institute of Technology*, 1987)

The "factory" approach to large-scale software development : implications for strategy, technology, and structure
Cusumano, Michael A. (*Cambridge, Mass. : Sloan School of Management, Massachusetts Institute of Technology*, 1987)

"For good design, you pay now; for bad design, you pay later"--or do you?
Murugappan, Meena; O'Young, S. Michael (*Massachusetts Institute of Technology*, 2006)

"Generational" innovation : the reconfiguration of existing systems and the failure of established firms
Henderson, Rebecca.; Clark, Kim B. (*Cambridge, Mass. : Alfred P. Sloan School of Management, Massachusetts Institute of Technology*, 1989)

A "go to market" strategy : enabling P&G profitable share growth through streamlined logistics
Koenigs, Leslie E. (Leslie Erin), 1973- (*Massachusetts Institute of Technology*, 2002)

The "green" challenge to the industrial enterprise mindset : survival threat or strategic opportunity?
Mylonadis, Yiorgos (*Massachusetts Institute of Technology*, 1994)

Dspace: volume of resources

- 38912 records
- Redundant sub-collections

Center for Reflective Community Practice (CRCP)
    CRCP Working Papers Collection
    Race & Democracy Reflection Project
        Organization Collections
            Asian Pacific American Legal Center (APALC)
                Personal Interviews
                Presentations of the Work
                Reflection Transcript
                Selected Stories
            Beloved Community Center (BCC)
                Personal Interviews
                Presentations of the Work
                Reflection Transcript
                Selected Stories
            Conservation Law Foundation Greater Boston Institute (CLF)
                Personal Interviews
                Presentations of the Work
                Reflection Transcript
                Selected Stories
            Southern Echo
                Personal Interviews
                Presentations of the Work
                Reflection Transcript
                Selected Stories
            Texas LEADS: Local Empowerment for Accessible and Diverse Schools
                Personal Interviews

Platform

Platform: Invenio

- Language: Python
- Database: MySql
- Server: apache with mod_python (latest stable release)
- Dependencies: easily available python modules

- Server: apache with mod_wsgi (next release)

Platform: Dspace

- Language: Java
- Apache-ant
- Database: PostgreSQL
- Server: Tomcat

Metadata Standards

- Invenio: MARC

- Dspace: Dublin Core

Restriction of Resources

Invenio: Restriction

- Module: Webaccess
  - Firewall like Roles

```
allow not email /.*@gmail.com/
deny group badguys
allow remote_ip "127.0.0.0/24"
deny all
```

Invenio: Restriction

step 1 - give values to the requested fields and confirm to modify role

role name: `thesesviewer`

description:
```
Theses viewer
```

firewall like role definition [?]:
```
allow group "Theses viewers"
allow apache_group "theses"
```

modify role

Dspace: Restriction

- Restriction by IP possible

dspace.cfg

ip-addresses of your network

authentication.ip.addresses=123.4.5.,123.4.6.

implicit group ID for users with such ip-addreses

authentication.ip.group=31

Community

Invenio: Community

- Less compared to Dspace but growing
- Mostly in Europe
  - the adopter community is growing, as is the developer community
- NASA (ADS) is investigating for serving ~7000,000 records
- Joint project between CERN and other organizations to serve high energy physics literature [inspirebeta.cern.ch]

Dspace: Community

- Over 700 organizations

Search Engine

Invenio: Search Engine

- Powerful search engine
- Provides google like search speeds for repositories of a few million records
- External servers collection search

Invenio: Search Engine

- Complex boolean operators
- Regular expressions search
- If no direct match found, proposes alternative matches

Dspace: Search Engine

- Lucene (java)
- High performance engine

Search Results

Invenio: Search Results

- Intelligible results

Search:

| nepal | any field ▾ | **Search** | **Browse** |

Search Tips :: Advanced Search

Search collections:

*** any collection *** ▾

Sort: | **Display results:** | **Output format:**

latest first ▾ | desc. ▾ | - or rank by - ▾ | 10 results ▾ | split by collection ▾ | HTML brief ▾

Results overview: Found **19** records in 0.03 seconds.

Articles & Preprints, **5** records found
Books & Proceedings, **3** records found
Presentations & Talks, **6** records found
Multimedia & Outreach, **5** records found

Articles & Preprints   **5** records found

☐ 1. **Cluster Development and Knowledge Exchange in Supply Chain** / Sureephong, Pradorn (LIESP, CAMT) ; Chakpitak, Nopasit (LIESP)
Industry cluster and supply chain are in focus of every countries which rely on knowledge-based economy. Both focus on improving the competitiveness of firm
arXiv:0806.0519.- 2008 Preprint - Published in : The Proceeding of International conference on Software Knowledge Information Managem
(2008)
Detailed record - Similar records

Invenio: Search Results

- Options to search other predefined servers

Multimedia & Outreach   5 re

☐ 1. **The December 2006 ATLAS Computing & Software Workshop-** <!--HTML-->The 29th ATLAS Computing & Software Worksh
   of data taking, the workshop participants had an air of urgency about them. [...] [ATL-ENEWS-2007-001]-
   Detailed record - Similar records

☐ 2. *Nepal*
   Nepal / Hubert,N ; Hubert,A
   CERN-AUDIO-1984-015.- 1984 . - 121' French
   ▶ 00:00 ───── 00:00 ◀ ₪₪₪ More...
   Detailed record - Similar records

☐ 3. **Au CERN...Les elevesde Ferney-Voltaire ceux de Schultz-Sous-Forets et le Nepal**
   Published in: CERN Press Review, no. 15.88, pp. 50, 22 Jun 1988 ; Published in: Pays Gessien (Gex, France), 3 Jun 1988
   Detailed record - Similar records

☐ 4. **SALE**
   VENTE
   [BUL-GI-2002-066]; [17/2002].-
   Published in CERN Bulletin 17/2002
   Detailed record - Similar records

☐ 5. **SALE**
   VENTE
   [BUL-GI-2002-063]; [16/2002].-
   Published in CERN Bulletin 16/2002
   Detailed record - Similar records

ADD TO BASKET

Haven't found what you were looking for? Try your search on other servers:

nepal in Amazon	nepal in IHS
nepal in CERN EDMS	nepal in INSPEC
nepal in CERN Indico	nepal in ISO
nepal in CERN Intranet	nepal in KISS Books/Journals
nepal in CiteSeer	nepal in KISS Preprints
nepal in Google Books	nepal in NEBIS
nepal in Google Scholar	nepal in SLAC Library Catalog
nepal in Google Web	nepal in SPIRES HEP
nepal in IEC	nepal in Scirus

Dspace: Search Results

- Very simple

Search

Search Scope:	All of DSpace@MIT ▾
Full Text Search:	nepal

Results/page 10 ▾   Sort items by relevance ▾

Go

Your query "nepal" produced 153 result(s).

Search Results

Now showing items 1-10 of 153
1 2 3 4 ... 16

Arsenic contamination study of drinking water in Nepal
  Halsey, Patricia M. (Patricia Marie), 1974- (*Massachusetts Institute of Technology*, 2000)

Household water chlorination for the developing world : a cast study in Lumbini, Nepal
  Sullivan, Hannah B. (Hannah Bahnsen), 1979- (*Massachusetts Institute of Technology*, 2002)

Development of a ceramic water filter for Nepal
  Dies, Robert W. (Robert William), 1976- (*Massachusetts Institute of Technology*, 2003)

The tectonic evolution of the central Himalya, Marsyandi Valley, Nepal
  Coleman, Margaret E. (Margaret Emily) (*Massachusetts Institute of Technology*, 1996)

Electric vehicle technology in Kathmandu, Nepal : a closer look at development
  Maharjan, Sushila, 1973- (*Massachusetts Institute of Technology*, 2002)

Thermobarometry, ⁴⁰A...r/³⁹Ar geochronology, and structure of the Main Central Thrust zone and Tibetan Slab, eastern Nepal H
  Hubbard, Mary Syndonia (*Massachusetts Institute of Technology*, 1988)

Point-of-use water treatment for arsenic removal through iron oxide coated sand : application for the Terai region of Nepal
  Poole, Barika R. (Barika Renee), 1979- (*Massachusetts Institute of Technology*, 2002)

Invenio: Search Results

- Recommendation by the search engine

CERN Document Server

Search:

| nepalo | any field ▾ | **Search** | **Browse** |

Search Tips :: Advanced Search

Search collections:

| *** any collection *** ▾ |

| **Sort:** | **Display results:** | **Output format:** |
| latest first ▾ | desc. ▾ | - or rank by - ▾ | 10 results ▾ | split by collection ▾ | HTML brief ▾ |

Search term *nepalo* did not match any record. Nearest terms in any collection are:

- 10   nep@icmp
- 10   nep@icmp.lviv.ua
- 1   nepa
- 25   nepal
- 17   nepali
- \-   nepalo
- 1   nepcon
- 1   nepd
- 3   nepean
- 1   nepean-carleton
- 3   nepeipivo

Haven't found what you were looking for? Try your sear

nepalo in Amazon	nepalo in IHS
nepalo in CERN EDMS	nepalo in INSPEC
nepalo in CERN Indico	nepalo in ISO
nepalo in CERN Intranet	nepalo in KISS Book

Dspace: Search Results

- No results

Search

Search Scope:	All of DSpace@MIT ▾
Full Text Search:	nepalo

Results/page 10 ▾   Sort items by relevance ▾

Go

Your query "nepalo" produced 0 result(s).

Search Results

Search produced no results.

Workflow
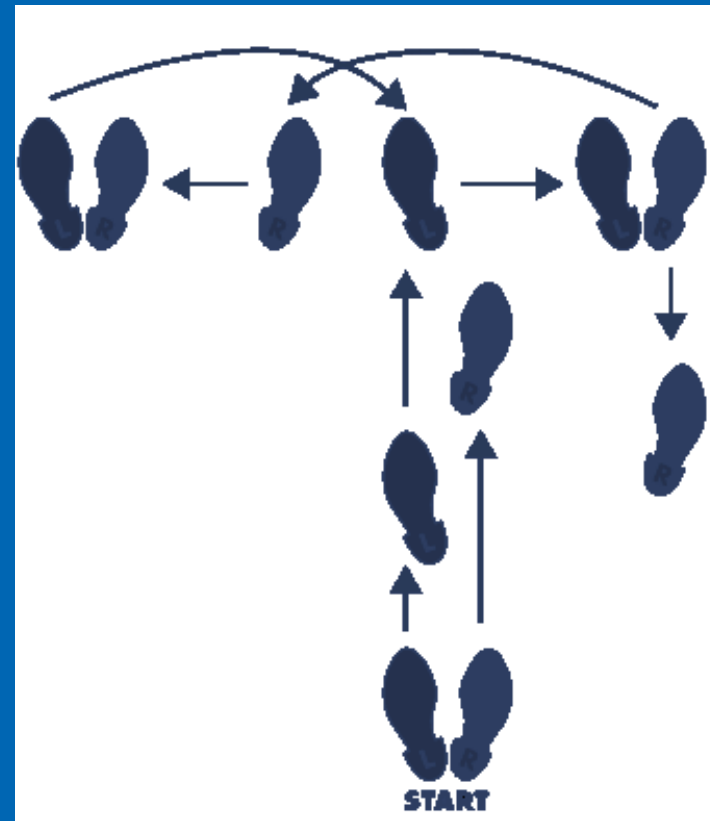
Invenio: Workflow

- Module: Websubmit
  - Flexible
  - Highly customizable

Dspace: Workflow

- 3 different types of workflows
- Create, modify or remove workflow step from the collection

UI Customization

Invenio: UI Customization

- Module: bibformat
  - Template for a record
  - Different output format for different collection
- Module: Webstyle
  - Look and feel of system

Invenio: UI Customization

Dspace: UI Customization

- CSS can be changed
- Not sure whether collection (subcollection) can have its own template like in Invenio

Periodicals Management

Invenio: Periodical

- Hacked feature (not out of the box feature)

Periodicals

Search 2,211 records for:

[   ] [any field ▼] [**Search**] [**Browse**]

Search Tips :: Advanced Search

Focus on:
Electronic Journals (1,768)

Go directly to a specific article of core journals:

Journal: [European physical journal, C   ▼]

Vol.: [   ] Page: [   ] [GoDirect]

Core journals:

European physical journal, C
IEEE transactions on applied superconductivity
IEEE transactions on magnetics
IEEE transactions on nuclear science
Journal of high energy physics - JHEP
Journal of instrumentation - JINST

Nuclear physics, A
Nuclear physics, B
Physical review letters
Physical review special topics : Accelerators and beams
Physical review, D
Physics letters, B

Dspace: Periodicals

- Not present in MIT dspace

Web 2.0

Invenio: Web 2.0

- Review and comment option for documents
- Can setup personal collection of documents (basket)
- User defined automated email alerts
- Knowledge sharing within user groups
- Any query can be used as an RSS feed

Dspace: Web 2.0

- Subscriptions facility available

Around the world

Invenio: Around the world

- Czech Republic - National Repository of Grey Literature research results
  (http://nrgl.techlib.cz/images/Open_source.pdf)

	CDS Invenio	DSpace	Eprints	Fedora	Greenstone
Content Management	10	8	8	5	9
Content Acquisition	10	9	10	8	9
Metadata	6	5	5	7	5
Search Support	8	6	5	4	7
User Management	8	6	8	4	5
Support of Reports	6	6	4	6	10
Sustainability, Data Protection	8	8	7	10	6
Interoperability	6	6	6	7	8
User Interface	8	8	7	5	7
Standards Compliance	9	9	9	9	10
Automation Tools	9	7	5	5	8
Support, Services	9	7	8	6	6
Total	97	85	82	76	90

Invenio: Around the world

- Top 400 institutional repositories

WORLD RANK	REPOSITORY	COUNTRY	POSITION			
			SIZE	VISIBILITY	RICH FILES	SCHOLAR
1	Smithsonian/NASA Astrophysics Data System*	🇺🇸	2	1	507	1
2	Hal CNRS	🇫🇷	8	3	3	3
3	Institut National de Recherche en Informatique et en Automatique Archive Ouverte	🇫🇷	17	4	19	8
4	██████████	🇨🇭	4	8	40	5
5	██████████	🇨🇭	3	6	44	84
6	MIT Dspace	🇺🇸	5	21	5	4
7	University of Michigan Deep Blue	🇺🇸	23	19	10	13
8	Hyper Article en Ligne Sciences de l'Homme et de la Société	🇫🇷	80	5	109	21
9	Tufts University Perseus Digital Library	🇺🇸	1	2	409	524
10	University of Southampton: Department of Electronics and Computer Science	🇬🇧	2			

Thank you