Bill Hubbard
SHERPA Manager
University of Nottingham
OpenDOAR - vision (from OAI4)

△ A Directory
  – with entries sorted by content, location, constituency, etc

△ A Registry
  – with registration services, FAQs and listed descriptions based on technical and metadata aspects

△ A Bridge
  – between repository administrators and service providers

△ A Resource
  – of materials and links of use to repository administrators

△ A Focus
  – for discussion and contact between repository administrators
OpenDOAR development  (from OAI4)

△ Survey existing repositories
△ Look at each repository personally
△ Test against metadata description
△ Check adequate description can be provided
△ Contact repository administrator with information
△ Produce useful classification structure
△ Build full directory and registry service
△ Create update and maintenance procedures
OpenDOAR Features

- Quality-assured survey & service
- Search for repositories & browse by criteria
- Variety of output formats
- Search for content in repositories
- Policy tools and recommendations
- email service - filtered recipient list
- Statistics - filter repositories and generate pastable info.
- API - now released
Survey and growth

- Quality assured through personal survey
- Reject about 25% of surveyed archives
  - other lists, suggestions
  - out of scope, metadata, test sites, wrongly described, etc
- What is harvested may not be what is found on site
  - name, purpose, contact information, policies, etc
- Amalgamate harvested material and on-screen info
  - contact repository owners for clarification
OpenDOAR

Suggest a repository

Please use this form to suggest a new repository for inclusion in OpenDOAR.

- Repository Name *
- Repository URL *
- Organisation *
- Your Name *
- ...and Email *
- Are you the repository's manager? *
  - Yes
  - No
- Description of the repository and/or notes
- Contact Name *
- ...and Email *
- OAI Base URL

Note: Fields with the * sign are mandatory.

Submit | Start Again

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Search & browse

- Search on various criteria
- Browse Directory filtered by various criteria
- Compare repositories through tabular output
- Listing by countries and continent
OpenDOAR

Search or Browse for Repositories

Results 1 - 20 of 853.

11th Joint Symposium on Neural Computation

Organisation: Caltech (California Institute of Technology), United States
Description: This is an open subject based repository containing papers from this 2004 conference. Part of the Caltech Online Digital Archives (CODA) project.
OAI-PMH: http://snc.library.caltech.edu/erl/oai2
Software: EPrints
Size: 30 items (2005-03-09)
Subjects: Computers and IT
Contents: Conferences
Languages: English
Policies: Metadata re-use permitted for not-for-profit purposes. Harvesting full data items by robots prohibited; Content policies explicitly undefined; Submission policies defined; Preservation policies not stated

Aalborg University - Electronic Library

Organisation: Aalborg Universitetsbiblioteket, Aalborg Universitet, Denmark
Description: This site is a university repository providing access to the research papers and publications of lecturers, and PhD theses, of Aalborg University. This site is poor in supporting information and background documentation, however contact details are readily available if problems are encountered.
Size: 35 items (2005-03-11)
OpenDOAR

Search or Browse for Repositories

Oxford

Any Subject Area  Any Content Type

Any Country Any Language Any Software

Full records 1 per page. Sort by Repository Name New Query

To search the contents of the repositories listed in OpenDOAR, please see our trial search page.

Result 1 of 3.

Mathematical Institute Eprints Archive

URL: http://eprints.maths.ox.ac.uk/

Organisation: Mathematical Institute
University of Oxford

Address: Broad Street, 24-29 St Giles', Oxford OX1 3BG
Country: United Kingdom
Tel.: 01865-280020

Description: This site is a subject based university repository providing access to the publication output of this institute. The American mathematical Society (AMS) classification scheme is used in addition to research group of author for subject classification.

Type: Institutional - Operational
Size: 203 items (2006-08-18)

Established: 2005
OAI-PMH: http://eprints.maths.ox.ac.uk/perl/eprints
Software: EPrints, Version: 2.3.13
Subjects: Mathematics and Statistics
Content: Patents, Publications, Conferences, Theses; Books
Languages: English
Contacts: Keith A. Gillow (eprints@maths.ox.ac.uk), 01865-273563
## Directory of Open Access Repositories

### Search or Browse for Repositories

To search the contents of the repositories listed in OpenDOAR, please see our [trial search page](http://www.opendoar.org/).

### Results

Click on a hyperlinked column heading to sort. Click again to reverse the order.

<table>
<thead>
<tr>
<th>Repository name</th>
<th>Country</th>
<th>Num. Pubs</th>
<th>Pubs</th>
<th>Conf.</th>
<th>Theses</th>
<th>Unpub</th>
<th>Other</th>
<th>Base</th>
<th>Software</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open Access Repository of IIBc Research Publications</td>
<td>India</td>
<td>5090</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>OA</td>
<td>EPrints</td>
</tr>
<tr>
<td>Raman Research Institute Digital Repository</td>
<td>India</td>
<td>1372</td>
<td>+</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>OA</td>
<td>DSpace</td>
</tr>
<tr>
<td>National Aerospace Laboratories Institutional Repository</td>
<td>India</td>
<td>1320</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>OA</td>
<td>EPrints</td>
</tr>
<tr>
<td>OpenMED@INC</td>
<td>India</td>
<td>1267</td>
<td>+</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>OA</td>
<td>EPrints</td>
</tr>
<tr>
<td>Indian Institute of Astrophysics Repository</td>
<td>India</td>
<td>1077</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>OA</td>
<td>EPrints</td>
</tr>
<tr>
<td>DSpace@INFLUNET</td>
<td>India</td>
<td>426</td>
<td>+</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>OA</td>
<td>DSpace</td>
</tr>
<tr>
<td>DSpace at National Chemical Laboratory</td>
<td>India</td>
<td>407</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>OA</td>
<td>DSpace</td>
</tr>
<tr>
<td>DSpace@NITP</td>
<td>India</td>
<td>287</td>
<td>+</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>OA</td>
<td>DSpace</td>
</tr>
<tr>
<td>Librarians' Digital Library</td>
<td>India</td>
<td>249</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>OA</td>
<td>DSpace</td>
</tr>
<tr>
<td>DRIS at National Institute Of Oceanography</td>
<td>India</td>
<td>220</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>OA</td>
<td>DSpace</td>
</tr>
<tr>
<td>Electronic Theses and Dissertations at Indian Institute</td>
<td>India</td>
<td>206</td>
<td>+</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>OA</td>
<td>DSpace</td>
</tr>
<tr>
<td>Library of Digital Library</td>
<td>India</td>
<td>191</td>
<td>+</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>OA</td>
<td>DSpace</td>
</tr>
<tr>
<td>DSpace at Indian Institute of Management, Bangalore</td>
<td>India</td>
<td>165</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>OA</td>
<td>DSpace</td>
</tr>
</tbody>
</table>

Page: << Previous 1 Next>>
OpenDOAR

OpenDOAR - Countries and Organisations

Africa | Asia | Australasia | Central America | Europe | North America | South America

Click on a name to see the corresponding OpenDOAR summaries, or on a URL to visit the relevant website.

CENTRAL AMERICA

Costa Rica | Mexico

Costa Rica

- Universidad de Costa Rica (UCR) - http://www.ucr.ac.cr/
  1. Estación de Economía Política
     http://www.fc.fds.ucr.ac.cr/series/

Mexico

- Estado de Chiapas - http://www.chiapas.gob.mx/diagenetar
  1. Gobierno del Estado Chiapas
     http://btrm.biblioteca.chiapas.gob.mx/

- ITESO Universidad Jesuita De Guadalajara (ITESO) - http://www.iteso.mx/index.jsp
  1. Documentacion en Ciencias de la Comunicacion (CC-DOC ITESO-CONACYT)
     http://ccdoc.iteso.mx/

- Universidad de las Americas Puebla (UDLAP) - http://www.udlap.mx/
  1. Coleccion de Tesis Digitales - Universidad de las Americas Puebla (Coleccion de Tesis)
     http://esthesis.udlap.mx/32500/1/tales/
  2. Publications of the Interactive and Cooperative Technologies Lab
     http://ict.udlap.mx/uds/index.html

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Search content

Δ www.opendoar.org/search
Δ Example of a Google Custom Search Engine
Δ Searches the full-text of repositories as available
Δ Not seriously promoted
Δ Feedback very positive
Δ Identifies repository content clearly but Google may be preferred by institutional academics for reasons shared with all OA search services
Policy Analysis

△ OA future depends on service providers fulfilling the potential of OA material
△ Services Providers depend on knowing what repositories lie within the scope of their service - and confidence in that information
△ Services depend on having the correct permissions to be able to use OA material - repositories are rarely filled with Open Access material
△ Therefore, policy information has to be available from the repositories . . .
Repositories' Metadata Policies

Recorded Metadata Re-use Policies
Worldwide

- Unknown (1 = 0%)
- Unstated (1 = 0%)
- Undefined (695 = 81%)
- Non-Profit (79 = 9%)
- Commercial (77 = 9%)

Total = 853 repositories
Repositories' Full-text Policies

Recorded [Full-text] Data Re-use Policies
Worldwide

- Unknown (1 = 0%)
- Unstated (1 = 0%)
- Undefined (666 = 78%)
- No Rights (3 = 0%)
- No Robots (94 = 11%)
- Unclear (1 = 0%)
- Variable (11 = 1%)
- Non-Profit (71 = 8%)
- [1 Others]

Total = 853 repositories

OpenDOAR 16-Apr-2007
Repositories' Preservation Policies

Recorded Preservation Policies
Worldwide

- Unknown (6 = 1%)
- Unstated (718 = 84%)
- Undefined (23 = 3%)
- Defined (106 = 12%)

Total = 853 repositories
Define Repository Policies

Unnamed Repository
OAI Base URL: Not known

POLICIES

Metadata Policy for information describing items in the repository
  Policy not yet defined
  Add

Data Policy for full-text and other full data items
  Policy not yet defined
  Add

Content Policy for types of document & data set held
  Policy not yet defined
  Add

Submission Policy concerning depositors, quality & copyright
  Policy not yet defined
  Add

Preservation Policy
  Policy not yet defined
  Add

OUTPUT OPTIONS


OK  Reset  Exit

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**Metadata Policy** for information describing items in the repository

The policy currently declared in the OAI configuration is:

Unable to harvest the current policy - no OAI Base URL available.

Use this form to specify your policy in standard OpenDOAR Terms, or...

+ Set OpenDOAR minimum recommended options

<table>
<thead>
<tr>
<th>Access to Metadata</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anyone may access the metadata free of charge. +‡</td>
</tr>
<tr>
<td>Access to some or all of the metadata is controlled.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Re-Use of Metadata</th>
</tr>
</thead>
<tbody>
<tr>
<td>No metadata re-use policy defined. Assume no rights at all have been granted.</td>
</tr>
<tr>
<td>Metadata re-use policy <em>(Please specify):</em></td>
</tr>
</tbody>
</table>

- The metadata may be re-used in any medium without prior permission +‡
  - for not-for-profit purposes +‡
  - and re-sold commercially ‡ provided +‡ the OAI Identifier or a link to the original metadata is given.
  - the repository is mentioned.

- The metadata must not be re-used in any medium for
  - commercial purposes +‡
  - not-for-profit purposes - without formal permission.

For more information

- see webpage: http://

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Data Policy for full-text and other full data items

The policy currently declared in the OAI configuration is:

Unable to harvest the current policy - no OAI Base URL available.

Use this form to specify your policy in standard OpenDOAR Terms, or...

+ Set OpenDOAR minimum recommended options  † Set optimum recommended options

Access to Full Items

- Anyone may access full items free of charge  †‡
- Access to some or all full items is controlled.

Re-Use of Full Items

- No full-item re-use policy defined. Assume no rights at all have been granted.
- All re-use of full items is prohibited.
- All full items are individually tagged with differing rights permissions and conditions.
- General full-item re-use policy (Please specify):

  ☐ Single copies can be †‡  ☐ reproduced †‡  ☐ in any format or medium †‡
  ☐ Copies generally †‡  ☐ displayed or performed †‡  ☐ given to third parties †‡
  ☐ stored in a database  ☐ educational purposes †‡  ☐ not-for-profit purposes †‡
  ☐ personal research or study †‡  ☐ commercial purposes
  ☐ for provided the authors, title and full bibliographic details are given †‡
  ☐ a hyperlink and/or URL are given for the original metadata page †‡
  ☐ the original copyright statement is given
  ☐ the original rights permission statement is given
  ☐ the content is not changed in any way †‡

☐ Full items must not be harvested by robots †‡  ☐ except transiently for †‡
☐ full-text indexing †‡  ☐ citation analysis †‡

☐ Full items must not be sold commercially without formal permission of the copyright holders †‡
Access to Full items
- Anyone may access full items free of charge.
- Access to some or all full items is controlled.

Re-Use of Full items
- No full-item re-use policy defined. Assume no rights at all have been granted.
- All re-use of full items is prohibited.
- All full items are individually tagged with differing rights permissions and conditions.
- General full-item re-use policy (Please specify):
  - Single copies:
  - Reproduced:
  - Displayed or performed:
  - Given to third parties:
  - Stored in a database:
  - Personal research or study:
  - Educational purposes:
  - Not-for-profit purposes:
  - Commercial purposes:
  - The authors, title and full bibliographic details are given:
  - A hyperlink and/or URL are given for the original metadata page:
  - The original copyright statement is given:
  - The original rights permission statement is given:
  - The content is not changed in any way:

- Full items must not be harvested by robots:
- Full items must not be sold commercially without formal permission of the copyright holders:

For more information
- See webpage http://
Policy Tools

- Output as text, HTML, ePrints code to plug-in
- Simple tick-box approach to encourage use
- Recommended choices for guidance
- Standardisation through convenience
- Programme to alert administrators to problem and solution
email Service

△ User specifies filtered set of repositories to address
△ Restricted to certain types of message content
△ Quality checked for compliance

△ Administrators can be assured of some value to email
△ Allows service providers or software developers to address administrators directly with updates, innovations, developments and suggestions
△ Administrators get addressed as a community
OpenDOAR

Email Service Request

This service allows you to contact all or a selection of repository administrators listed on this site. It is offered in the hope that it will further facilitate the global and regional Open Access and repository community of practise.

Message Type *
- Event or Conference Announcement

Email List for *
- All Countries
- All Languages
- All Software

Other:

Message Subject *

Event Title *

Date *
- Starts:
- Ends:

Venue/City *
- Country *

Organisation *

Message Text *

Follow-up URL

Contact Person
- Name *
- Job Title :
- Email *
- Phone :
Statistics

- Statistics based on filtered sets
- Graphics can be cut&pasted
- Dynamic HTML output also available for cut&pasting into pages
OpenDOAR Charts - Europe

Click on a thumbnail image to display the full-size chart and its key:

- Repositories by Continent
- Repository Organisations by Continent
- Repositories by Country
- Repository Organisations by Country
- Usage of Open Access Repository Software
- Open Access Repository Types
- Repository Operational Statuses
- Most Frequent Content Types
- Most Frequent Languages
- OpenDOAR Subjects
- Metadata Re-use Policy Grades
- [Full Text] Data Re-use Policy Grades
- Content Policy Grades
- Submission Policy Grades
- Preservation Policy Grades
- Growth of the OpenDOAR Database

Detailed stats for embedding

Usage of Open Access Repository Software - Europe

For further data, please see the corresponding table of repositories sorted by software platform.

If you would like to incorporate this chart into your own website, please copy and paste the following HTML source code into the relevant position in your web page:

```html
```

This is a dynamic link that will always show the latest OpenDOAR data.

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API

- www.opendoar.org/tools/api.html
- Can provide just titles and URLs, through to all OpenDOAR data
- HTTP Get requests, returned as XML
- Searches all fields publicly shown, and others - eg internal id for record, policy grading codes
- Allows some Boolean searching
- Output data licensed as CC - nc-sa
OpenDOAR

Application Programmers' Interface (API)


The API is a machine-to-machine interface that lets third party applications run a wide variety of queries against the OpenDOAR Database and get back XML data. You can choose to receive just repository titles & URLs (suitable for OA-PMH harvesting), or all the available OpenDOAR data, or intermediate levels of detail. You can then incorporate the output into your own applications and 'mash-ups'.

There are many uses to which the API can be put - either to re-purpose the data, or to use it to control operations such as OA-PMH harvesting. The three experimental applications listed below give a flavour of the sort of things that can be done. They were initially created by external collaborators when the API was at the prototype stage, and are listed with their permission.

- **RepositoryMap** - This is a mash-up of OpenDOAR data with Google Maps and repository growth charts from ROAR, developed by Stuart Lewis of the University of Aberystwyth, Wales.
- **A library collection managers' tool**, being developed by Eric Lease Morgan of the University Libraries of Notre Dame, Indiana, USA. The purpose of this prototype tool is to identify Open Access repositories by subject for miroinfusing.
- **Repository Junction** - a proof of concept application developed by Ian Stuart, EDINA, University of Edinburgh. This uses Athens authentication to determine the user's institution, and then uses the OpenDOAR API to display a list of the repositories that the institution hosts.

Other possibilities that come to mind include: displaying a list of repositories for a given country (perhaps in association with an OpenDOAR Chart); gathering a collection of DAI Base URLs for repositories containing material in a given language, which can then be harvested for a specialist search service; and compiling data for statistical purposes.

OpenDOAR API output data is licensed for re-use under a Creative Commons Attribution-Non-Commercial-Share Alike licence. See http://creativecommons.org/licenses/by-nc-sa/2.0/uk/ for further details.

**Basic Principles**

The API works by client programs making HTTP get requests to the API at http://opendoar.org/api.php, with the URL's arguments indicating the required query criteria and output format. The results are returned as an XML stream.

Queries can search all the fields that the interactive OpenDOAR Find facility can search - Keywords, Country/Continent, Language, Subject Area, and Content Type. Keywords can search all the text fields, or specific families of fields such as URLs, Software Names & Versions, etc. There are additional fields that currently only the API can search - OpenDOAR Record ID, Policy Grade, OpenDOAR Record Update Date, and presence/absence of an DAI Base URL. Furthermore, the API has extra functionality that Find does not have. You can search for lists of countries, languages, subjects, etc., and there is some Boolean logic.
Application Programmers' Interface (API)

Technical Manual

Basic Principles

The API works by client programs making HTTP get requests to http://opendoar.org/api.php or http://opendoar.org/api12.php, with the URL's arguments indicating the required query criteria and output format. The results are returned as an XML stream. The URL api12.php is specific to version 1.2 of the API. The URL api.php always uses the version that is current at runtime.

Licencing

OpenDOAR API output data is licenced for re-use under a Creative Commons Attribution-Non-Commercial-Share Alike licence. See: http://creativecommons.org/licenses/by-nc-sa/2.0/uk/

Input Parameters

All URL parameter names are in lower case. Parameter values are case-insensitive.

Query Specification

1. all (optional) - Complete database. Only permitted value is 'all-y'.

2. rid (optional) - OpenDOAR Record Identifier. A comma-separated list of internal OpenDOAR ID numbers. (The rid argument in the <repository> XML tag).

3. cc (optional) - Country/Continent. A list of ISO-3166 2-letter country codes or continent/region names (see Appendix A) separated by commas. These will be searched using OR logic. See: http://www.iso.org/iso/en/prods-services/iso3166ma/03iso-3166-code-lists/list-en1.html

4. la (optional) - Language. A list of ISO 2-letter language codes separated by commas. These will be searched using OR logic. See: http://en.wikipedia.org/wiki/List_of_ISO_639-1_codes

5. subject (optional) - Subject area codes. A list of OpenDOAR subject codes, separated by commas. Multiple codes are searched using OR logic. List in Appendix B

6. cc (optional) - Content type codes. A list of OpenDOAR numeric content type codes separated by commas. These will be searched using OR logic. List in appendix C.
Query specification

- all optional

- all – Complete database.
- rid – OpenDOAR Record Identifier.
- co – Country/Continent.
- la – Language.
- subject – Subject area codes.
- ct – Content type codes.
- pgrade – Policy grade codes.
- since – Update date.
- before – Update date.
- oai – OAI Base URL Availability.
- kwd – Keywords.

- multi - Qualifier for multi-string kwd parameters.
  - phrase [default]
  - begins
  - ends
  - all
  - any

- fields – Field family code.
  - rname
  - oname
  - sw
  - url
  - all [default]

- bool – Boolean operator
  - and [default]
  - or
The *show* output option

- **show** *(optional)* – **Collections of fields to be output:*
- **min** – Minimum data – Repository name, acronym, preference, URL, and OAI Base URL.
- **basic** *(default)* – as for min, plus Academic unit name, acronym, preference and URL, Organisation name, acronym, preference and URL, Postal Address, Country, Latitude and Longitude, Phone and Fax, Description, Remarks, Number of records and Date harvested for record count. These are generally the most popular fields.
- **index** – as for min, plus lists of index terms and categories - i.e. Year established, Repository type, Operational status, Software name & version, Subject classes, Languages, Content types, and Policy grades.
- **contact** – as for min, plus list of contacts – i.e. Personal name, Job title, Email and Phone
- **policy** – as for min, plus list of Policy grades, and Standardised policy statements.
- **max** – Maximum data for all available fields.

*Multiple options can be specified, separated by commas. Where options overlap, fields are not duplicated in the output.*
Examples

http://opendoar.org/api12.php?co=fr,ca,be,ch&la=fr&show=min&sort=co,rname
Finds repositories in France, Canada, Belgium or Switzerland in the French
language. Returns repository names & URLs sorted by country & repository
name.

l=or
Finds repositories containing the strings ‘geo’ or ‘earth’ or with the subject code
for ‘earth and planetary sciences’. By default, returns summary records sorted
by repository name.

=max
Shows all available OpenDOAR data for the CCLRC ePublication Archive.
API test use by

- **Repository66**
  - A mash-up by Stuart Lewis, Aberystwyth, which shows the location of repositories on a world map

- **Library Collection Manager’s tool**
  - Eric Lease Morgan, of Notre Dame Indiana, identifying repositories by subject for indexing

- **Repository Junction**
  - Part of the recently announced Depot service in the UK, by Ian Stuart of EDINA, using Athens authentication to determine user’s institution, then showing relevant repositories for use.
OpenDOAR Policy Grade Codes

△ 1 Content policies unknown
△ 2 Content policies not stated
△ 3 Content policies explicitly undefined
△ 4 Content policies unclearly stated
△ 5 Content policies defined
△ 6 Metadata policies unknown
△ 7 Metadata policies not stated
△ 8 Metadata re-use policy explicitly undefined
△ 9 All metadata re-use prohibited
△ 10 Metadata re-use policy unclearly stated
△ 11 Metadata re-use permitted for not-for-profit purposes
△ 12 Commercial metadata re-use permitted
△ 13 Full data item policies unknown
△ 14 Full data item policies not stated
△ 15 Full data item policies explicitly undefined
△ 16 All re-use of full data items prohibited
△ 17 Harvesting full data items by robots prohibited
△ 18 Policy for the re-use of full data items unclearly stated
△ 19 Rights vary for the re-use of full data items
△ 20 Re-use of full data items permitted for not-for-profit purposes
△ 21 Commercial re-use of full data items permitted
△ 22 Submission policies unknown
△ 23 Submission policies not stated
△ 24 Submission policies explicitly undefined
△ 25 Submission policies unclearly stated
△ 26 Submission policies defined
△ 27 Preservation policies unknown
△ 28 Preservation policies not stated
△ 29 Preservation policies explicitly undefined
△ 30 Preservation policies unclearly stated
△ 31 Preservation policies defined
OpenDOAR Subject Areas

- Multidisciplinary
- Science General
  - Agriculture, Food and Veterinary
  - Biology and Biochemistry
  - Chemistry and Chemical Technology
  - Earth and Planetary Sciences
  - Ecology and Environment
  - Mathematics and Statistics
  - Physics and Astronomy
- Health and Medicine
- Technology General
  - Architecture
  - Civil Engineering
  - Computers and IT
  - Electrical and Electronic Engineering
  - Mechanical Engineering and Materials

- Arts and Humanities General
  - Fine and Performing Arts
  - Geography and Regional Studies
  - History and Archaeology
  - Language and Literature
  - Philosophy and Religion
- Social Sciences General
  - Business and Economics
  - Education
  - Law and Politics
  - Library and Information Science
  - Management and Planning
  - Psychology
**OpenDOAR**

**Application Programmers' Interface (API)**


---

**Code Lists**

*Appendix A - OpenDOAR Continent/Region Names*

- Africa
- Antarctica *
- Asia
- Australasia
- Caribbean *
- Central America
- Europe
- North America
- Oceania *
- South America

* At the time of writing, there were no repositories in OpenDOAR for these continents.

*Appendix B - Hierarchical List of OpenDOAR Subject Area Codes*

- Multidisciplinary
- Da: Science General
- Cad: Agriculture, Food and Veterinary
- Cag: Biology and Biochemistry
- Cak: Chemistry and Chemical Technology
- Dam: Earth and Planetary Sciences
- Cap: Ecology and Environment
- Car: Mathematics and Statistics
- Cat: Physics and Astronomy
- Cbe: Health and Medicine
- Cti: Technology General
- Cif: Architecture
- Cil: Civil Engineering
- Cin: Computers and IT
Appendix E - Example Output XML Record

XML header & Legal Notices

```xml
<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE OpenDOAR SYSTEM "api12.dtd">
<OpenDOAR apiVersion="1.1">
  <copyright>Copyright 2007, University of Nottingham</copyright>
  <licence>OpenDOAR data is available for re-use under a Creative Commons Attribution-Non-Commercial-Share Alike licence</licence>
</OpenDOAR>
```

API Query Parameters & Diagnostics - Displayed when &header=y

```xml
<header>
  <parameters>
    <parameter>
      <parametername>kwd</parametername>
      <parametervalue>norms</parametervalue>
    </parameter>
    <parameter>
      <parametername>show</parametername>
      <parametervalue>max</parametervalue>
    </parameter>
    <parameter>
      <parametername>header</parametername>
      <parametervalue>y</parametervalue>
    </parameter>
    <parameter>
      <parametername>multi</parametername>
      <parametervalue>phrase</parametervalue>
    </parameter>
    <parameter>
      <parametername>fields</parametername>
      <parametervalue>all</parametervalue>
    </parameter>
    <parameter>
      <parametername>bool</parametername>
      <parametervalue>AND</parametervalue>
    </parameter>
  </parameters>
</header>
```
Appendix F - Document Type Definition (DTD) for XML Output

```xml
<?xml version='1.0' encoding='UTF-8' ?>
<!DOCTYPE OpenDOAR SYSTEM 'repository.dtd'>
<!ELEMENT OpenDOAR (copyright, licence, header?, repositories)>  
<!ELEMENT copyright (#PCDATA)>  
<!ELEMENT licence (#PCDATA)>  
<!ELEMENT header (parameters?, mUnit?, timestmp?, errors*)>  
<!ELEMENT parameters (parameter*)>  
<!ELEMENT parametername (#PCDATA)>  
<!ELEMENT parametervalue (#PCDATA)>  
<!ELEMENT mUnit (#PCDATA)>  
<!ELEMENT timestmp (#PCDATA)>  
<!ELEMENT errors (error*)>  
<!ELEMENT error (#PCDATA)>  
<!ELEMENT repositories (repository*)>  
<!ELEMENT repository (rName?, rAcronym?, rNamePreferred?, rUrl?, rOsiBaseUrl?, uName?, uAcronym?, uNamePreferred?, uUrl?, sName?, sAcronym?, sNamePreferred?, sUrl?, postalAddress?, country, pPhone?, pFax?, rDescription?, rRemarks?, rNumOfItems?, rDetailsHarvested?, rYearEstablished?, repositoryType?, operationalStatus?, rSoftwareName?, rSoftwareVersion?, classes*, languages*, contentTypes*, policies*, contacts*)>  
<!ATTLIST repository rID CDATA #REQUIRED>  
<!ELEMENT rName (#PCDATA)>  
<!ELEMENT rAcronym (#PCDATA)>  
<!ELEMENT rNamePreferred (#PCDATA)>  
<!ELEMENT rUrl (#PCDATA)>  
<!ELEMENT rOsiBaseUrl (#PCDATA)>  
```