

## Study of Indian Repositories on DOAR

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### Abstract

*Institutional Repositories ( IR ) disseminates rich source of digitized material drafted and published by scholars .Many of the research institutions and universities across the world are facilitating open access (OA) to their intellectual outputs through their respective OAIR ( Open access Institutional Repositories .Open Archive Initiative (OAI) based service provider harvest metadata from register OAI – compliant systems and build a central index on the harvested metadata .This central index serves as a discovery tool for end users, who need not be aware of the existence of distributed repositories .One such OAI based service provider is Directory of Open Access Repositories (DOAR). It is a union catalog of IR which gives access to OAIR in the world. This paper has made an attempt to evaluate IR available on DOAR. DOAR is a metadata harvesting service provider which provides access to open access repositories in the world. At present total 2233 repositories were found on DOAR from all country on different subjects. Out of 2233, 54 repositories were from India. Analysis is presented on the basis of selected criteria like software used, size of items, content included, languages and policy used etc.*

**Keywords:** Institutional repositories, DOAR, IIR

### 1. INTRODUCTION

The closed access system to most of the scholarly literature both published and unpublished paved the way for IR. An IR is a web – based database of scholarly material. IR collects, stores, disseminates, digital resources and also preserves digital material for long term usage. The proponents of OA movement to scholarly literature believe that the access barrier to the scholarly literature can be overcome if the researcher take advantage of the developments that are taking place in the information and communication technology by facilitating OA scholarly literature .To achieve OA , the Budapest Open Access Initiative has recommended two strategies . These are self archiving in an IR and Open access journal on internet.

A metadata harvesting service harvest or indexes metadata from OAI- compliant archives or IR through harvesting software that supports a protocol known as OAI-PMH (Open Access Initiatives protocol for Metadata Harvesting). DOAR is an attempt to build and maintain metadata harvesting service for all OAIR from the world. Repositories need to be categorized with clear information on their policies regarding tagging peer-reviewed/non-peer-reviewed

material, their subject coverage, the constituency they draw on for content, their collection and preservation policies, etc. If these information does not exist, repositories should be encouraged to provide it as a means to further improve their visibility and the use of the content that they hold. Maintaining of all IR in their index have been done by DOAR regularly.

## **2. DIRECTORY OF OPEN ACCESS REPOSITORIES (DOAR)**

DOAR provides a quality-assured listing of open access repositories around the world. DOAR staff harvest and assign metadata to allow categorization and analysis to assist the wider use and exploitation of repositories. DOAR is maintained by SHERPA Services, based at the Centre for Research Communications at the University of Nottingham, UK . DOAR is primarily a service to enhance and support the academic and research activities of the global community. DOAR maintains a comprehensive and authoritative list of institutional and subject-based repositories. Users of the service are able to analyze repositories by location, type, the material they hold and other measures. One key point about DOAR is that information on DOAR is of use not only to users wishing to find original research papers but also for third-party service providers, like search engines or alert services, who need easy to use tools for developing tailored search services to suit specific user communities. Typically DOAR lists publication repositories, as this is the basis for most repositories. However, DOAR also lists other types, for example - images or data-sets, particularly where these have metadata or documentation sufficient to make the material reusable. Repositories listed in DOAR are not necessarily OAI-PMH compliant. OAI-PMH is widely used for facilitating search of open access materials, but use of OAI-PMH is not synonymous with open access itself.

Common reasons for not listing repositories on DOAR include :

- Site is repeatedly inaccessible
- Site is an e Journal
- Site contains no Open Access materials
- Site contains metadata (bibliographic) references only or solely links to external sites
- Site is actually a library catalogue or collection of locally accessible e-books
- Site requires login to access any material (gated access) - even if freely offered
- Site is a proprietary database or journal that requires a subscription to access

DOAR aims to:

Survey the growing field of academic open access research repositories and categorize them in terms of content and other measures.

- Produce a descriptive list of open access repositories of relevance to academic research.
- Provide a comprehensive & authoritative list for end users wishing to find particular types of, or specific repositories.
- Deliver a comprehensive, structured and maintained list with clear update and self-regulation protocols to enable development of the list.
- Play a prominent international role in the organization of and access to open access repository services.
- Support Open Access outreach and advocacy endeavors within institutions and globally.

There are several user-groups for DOAR including researchers, browsers, service-providers, data-miners, administrators. Each of these possess their own expectations, needs and perspectives. The information gathered is therefore analyzed and represented in such a way as to satisfy the information requirements of all of these groups.

### **3. REAEARCH METHODOLOGY**

DOAR website ([http://www.open\\_doar.org](http://www.open_doar.org)) was studied for present research. On 28<sup>th</sup> November 2012, total 2233 repositories were found on DOAR from all country on different subjects. Out of 2233, 54 repositories were from India. Analysis is presented on the basis of selected criteria like software used, size of items, content included ,languages and policies etc.

### **4. SCOPE AND LIMITATION**

Only IR of India found in DOAR was chosen. Total 54 IR were analyzed based on selected study criteria. Access date of DOAR site is up to 28<sup>th</sup> November 2012 .

### **5. OBJECTIVES OF THE STUDY**

- To know Indian Repositories available on DOAR.

- To analyze 54 Indian IR available on DOAR based on selected study criteria .
- To know software used for repositories
- To know record (items) present in respective repositories
- To know languages used in IR
- To know URL of IR
- To know various types of policies of IR
- To know subject content in IR

## 6. ANALYSYIS OF DATA AND INTERPRETATIONS

DOAR contains 54 Indian repositories , these are analyzed based on criteria like software used ,size of item , content included , type of IR ,subjects, languages ,and policies .

**Table 1: Name of the Organization having Institutional Repositories**

S.N.	<u>Repository name</u>	<u>URL</u>
1	<u>Catalysis Database</u>	<a href="http://www.eprints.iitm.ac.in/">http://www.eprints.iitm.ac.in/</a>
2	<u>CMFRI Digital Repository</u>	<a href="http://eprints.cmfri.org.in/">http://eprints.cmfri.org.in/</a>
3	<u>Delhi College of Engineering Repository</u>	<a href="http://www.dspace.dce.edu/">http://www.dspace.dce.edu/</a>
4	<u>Dhananjayaroo Gadigil Library</u>	<a href="http://library.gipe.ac.in/jspui/">http://library.gipe.ac.in/jspui/</a>
5	<u>Digital Knowledge Repository of Central Drug Research Institute</u>	<a href="http://dkr.cdri.res.in:8080/dspace/index.jsp">http://dkr.cdri.res.in:8080/dspace/index.jsp</a>
6	<u>Digital Library at Indian Statistical Institute, Bangalore</u>	<a href="http://eprints.iisc.ernet.in/">http://eprints.iisc.ernet.in/</a>
7	<u>Digital repository of Cochin University of Science &amp; Technology</u>	<a href="http://dspace.cusat.ac.in/jspui/">http://dspace.cusat.ac.in/jspui/</a>
8	<u>DigitalLibrary@CUSAT</u>	<a href="http://dspace.cusat.ac.in/jspui/">http://dspace.cusat.ac.in/jspui/</a>
9	<u>DRS at National Institute Of Oceanography</u>	<a href="http://drs.nio.org/">http://drs.nio.org/</a>
10	<u>DSpace @ GGSIPU</u>	<a href="http://14.139.60.216:8080/xmlui/">http://14.139.60.216:8080/xmlui/</a>
11	<u>dspace @ sdmcet</u>	<a href="http://210.212.198.149:8080/jspui">http://210.212.198.149:8080/jspui</a>
12	<u>DSpace at IBS Ahmedabad</u>	<a href="http://202.131.96.59:8080/dspace">http://202.131.96.59:8080/dspace</a>
13	<u>Dspace at IIT Bombay</u>	<a href="http://dspace.library.iitb.ac.in/jspui/">http://dspace.library.iitb.ac.in/jspui/</a>
14	<u>DSpace at Indian Institute of Management Kozhikode</u>	<a href="http://dspace.iimk.ac.in/">http://dspace.iimk.ac.in/</a>
15	<u>DSpace at IUCAA</u>	<a href="http://www.iucaa.ernet.in:8080/jspui/">http://www.iucaa.ernet.in:8080/jspui/</a>
16	<u>DSpace at NCRA</u>	
17	<u>DSpace at Vidyanidhi</u>	<a href="http://dspace.vidyanidhi.org.in:8080/dspace/">http://dspace.vidyanidhi.org.in:8080/dspace/</a>
18	<u>DSpace@IMSC</u>	<a href="http://www.imsc.res.in/xmlui">http://www.imsc.res.in/xmlui</a>

19	<u>DSpace@INFLIBNET</u>	<a href="http://ir.inflibnet.ac.in/">http://ir.inflibnet.ac.in/</a>
20	<u>Dspace@NITR</u>	<a href="http://dspace.nitrkl.ac.in/dspace/">http://dspace.nitrkl.ac.in/dspace/</a>
21	<u>DSpace@PDPU</u>	<a href="http://library.pdpu.ac.in:8080/xmlui">http://library.pdpu.ac.in:8080/xmlui</a>
22	<u>DSpace@TU</u>	<a href="http://dspace.thapar.edu:8080/dspace/">http://dspace.thapar.edu:8080/dspace/</a>
23	<u>DU Eprint Archive</u>	<a href="http://eprints.du.ac.in/">http://eprints.du.ac.in/</a>
24	<u>eGyankosh</u>	<a href="http://www.egyankosh.ac.in/">http://www.egyankosh.ac.in/</a>
25	<u>Electronic Theses and Dissertations at Indian Institute of Science</u>	<a href="http://etd.ncsi.iisc.ernet.in/">http://etd.ncsi.iisc.ernet.in/</a>
26	<u>Eprint@NML</u>	<a href="http://eprints.nmlindia.org/">http://eprints.nmlindia.org/</a>
27	<u>Eprints@IARI</u>	<a href="http://eprints.iari.res.in/">http://eprints.iari.res.in/</a>
28	<u>EPrints@IITD</u>	<a href="http://eprint.iitd.ac.in/dspace/">http://eprint.iitd.ac.in/dspace/</a>
29	<u>ePrints@NII</u>	<a href="http://eprints.nii.res.in/">http://eprints.nii.res.in/</a>
30	<u>Eprints@SBT MKU</u>	<a href="http://eprints.bicmku.in/">http://eprints.bicmku.in/</a>
31	<u>Etheses - A Saurashtra University Library Service</u>	<a href="http://etheses.saurashtrauniversity.edu/">http://etheses.saurashtrauniversity.edu/</a>
32	<u>ICRISAT Open Access Repository</u>	<a href="http://oar.icrisat.org/">3http://oar.icrisat.org/</a>
33	<u>IIT Roorkee Repository</u>	<a href="http://bhagirathi.iitr.ac.in/dspace/">http://bhagirathi.iitr.ac.in/dspace/</a>
34	<u>Indian Academy of Sciences: Publications of Fellows</u>	<a href="http://repository.ias.ac.in/">http://repository.ias.ac.in/</a>
35	<u>Indian Institute of Astrophysics Repository</u>	<a href="http://prints.iiap.res.in/">http://prints.iiap.res.in/</a>
36	<u>Indian Institute of Management Kozhikode Digital Library</u>	<a href="http://www.iimk.ac.in/gsd/cgi-bin/library">http://www.iimk.ac.in/gsd/cgi-bin/library</a>
37	<u>Indian Institute of Petroleum Institutional Repository</u>	<a href="http://library.iip.res.in:8080/dspace">http://library.iip.res.in:8080/dspace</a>
38	<u>Institutional Repository of Intectual Contributions of Delhi Technological University</u>	<a href="http://www.dspace.dce.edu/">http://www.dspace.dce.edu/</a>
39	<u>Kautilya Digital Repository at IGIDR</u>	<a href="http://oii.igidr.ac.in:8080/dspace/index.jsp">http://oii.igidr.ac.in:8080/dspace/index.jsp</a>
40	<u>Knowledge Repository of Indian Institute of Horticultural Research</u>	<a href="http://www.erepo.iihr.ernet.in/">http://www.erepo.iihr.ernet.in/</a>
41	<u>Knowledge Repository Open Network</u>	<a href="http://dspace.uok.edu.in:8080/jspui/">http://dspace.uok.edu.in:8080/jspui/</a>
42	<u>Librarians' Digital Library</u>	<a href="https://drtc.isibang.ac.in/">https://drtc.isibang.ac.in/</a>
43	<u>Mahatma Gandhi University Theses Online</u>	<a href="http://www.mgutheses.org/">http://www.mgutheses.org/</a>
44	<u>Management Development Institute - Open Access Repository</u>	<a href="http://dspace.mdi.ac.in/dspace">http://dspace.mdi.ac.in/dspace</a>
45	<u>National Aerospace Laboratories Institutional Repository</u>	<a href="http://nal-ir.nal.res.in/">http://nal-ir.nal.res.in/</a>
46	<u>National Science Digital Library</u>	<a href="http://nsdl.niscair.res.in/">http://nsdl.niscair.res.in/</a>
47	<u>NISCAIR Online Periodical Repository</u>	<a href="http://nopr.niscair.res.in/">http://nopr.niscair.res.in/</a>

48	<u>Open Access Agricultural Research Repository</u>	<a href="http://eprints.iari.res.in/">http://eprints.iari.res.in/</a>
49	<u>Open Access Repository of IISc Research Publications</u>	<a href="http://eprints.iisc.ernet.in/">http://eprints.iisc.ernet.in/</a>
50	<u>OpenMED@NIC</u>	<a href="http://openmed.nic.in/">http://openmed.nic.in/</a>
51	<u>Raman Research Institute Digital Repository</u>	<a href="http://dspace.rri.res.in/">http://dspace.rri.res.in/</a>
52	<u>Sardar Vallabhbhai National Institute of Technology EPrints</u>	<a href="http://eprints.svnit.ac.in/">http://eprints.svnit.ac.in/</a>
53	<u>ShodhGanga: A resevior of Indian Theses</u>	<a href="http://shodhganga.inflibnet.ac.in/">http://shodhganga.inflibnet.ac.in/</a>
54	<u>Vidya Prasarak Mandal - Thane</u>	<a href="http://dspace.vpmthane.org:8080/jspui/index.jsp">http://dspace.vpmthane.org:8080/jspui/index.jsp</a>

**Table 2 : Software's and no.of items included in Indian IR on DOAR**

<b>S.N.</b>	<b><u>Repository name</u></b>	<b><u>Software</u></b>	<b><u>Num. Recs.</u></b>
1	<u>Catalysis Database</u>	EPrints	2327
2	<u>CMFRI Digital Repository</u>	EPrints	8796
3	<u>Delhi College of Engineering Repository</u>	DSpace	326
4	<u>Dhananjayrao Gadgil Library</u>	DSpace	1539
5	<u>Digital Knowledge Repository of Central Drug Research Institute</u>	DSpace	630
6	<u>Digital Library at Indian Statistical Institute, Bangalore</u>	DSpace	191
7	<u>Digital repository of Cochin University of Science &amp; Technology</u>	DSpace	2295
8	<u>DigitalLibrary@CUSAT</u>	DSpace	5290
9	<u>DRS at National Institute Of Oceanography</u>	DSpace	4166
10	<u>DSpace @ GGSIPU</u>	DSpace	131
11	<u>dspace @ sdmcet</u>	DSpace	60
12	<u>DSpace at IBS Ahmedabad</u>	DSpace	171
13	<u>Dspace at IIT Bombay</u>	DSpace	14096
14	<u>DSpace at Indian Institute of Management Kozhikode</u>	DSpace	512
15	<u>DSpace at IUCAA</u>	DSpace	2516
16	<u>DSpace at NCRA</u>	DSpace	84
17	<u>DSpace at Vidyanidhi</u>	DSpace	5482
18	<u>DSpace@IMSC</u>	DSpace	278
19	<u>DSpace@INFLIBNET</u>	DSpace	1274
20	<u>Dspace@NITR</u>	DSpace	1706
21	<u>DSpace@PDPU</u>	DSpace	99
22	<u>DSpace@TU</u>	DSpace	2060
23	<u>DU Eprint Archive</u>	EPrints	170
24	<u>eGyankosh</u>	DSpace	23794

25	<a href="#">Electronic Theses and Dissertations at Indian Institute of Science</a>	DSpace	1746
26	<a href="#">Eprint@NML</a>	EPrints	5302
27	<a href="#">Eprints@IARI</a>	EPrints	230
28	<a href="#">EPrints@IITD</a>	DSpace	2141
29	<a href="#">ePrints@NII</a>	EPrints	10
30	<a href="#">Eprints@SBT MKU</a>	EPrints	89
31	<a href="#">Etheses - A Saurashtra University Library Service</a>	EPrints	985
32	<a href="#">ICRISAT Open Access Repository</a>	[Unknown]	5800
33	<a href="#">IIT Roorkee Repository</a>	DSpace	1007
34	<a href="#">Indian Academy of Sciences: Publications of Fellows</a>	EPrints	89726
35	<a href="#">Indian Institute of Astrophysics Repository</a>	DSpace	5685
36	<a href="#">Indian Institute of Management Kozhikode Digital Library</a>	Greenstone	
37	<a href="#">Indian Institute of Petroleum Institutional Repository</a>	DSpace	454
38	<a href="#">Institutional Repository of Intectual Contributions of Delhi Technological University</a>	DSpace	841
39	<a href="#">Kautilya Digital Repository at IGIDR</a>	DSpace	204
40	<a href="#">Knowledge Repository of Indian Institute of Horticultural Research</a>	DSpace	382
41	<a href="#">Knowledge Repository Open Network</a>	DSpace	625
42	<a href="#">Librarians' Digital Library</a>	DSpace	464
43	<a href="#">Mahatma Gandhi University Theses Online</a>	Nitya	1116
44	<a href="#">Management Development Institute - Open Access Repository</a>	DSpace	325
45	<a href="#">National Aerospace Laboratories Institutional Repository</a>	EPrints	5250
46	<a href="#">National Science Digital Library</a>	DSpace	573
47	<a href="#">NISCAIR Online Periodical Repository</a>	DSpace	13444
48	<a href="#">Open Access Agricultural Research Repository</a>	[Unknown]	
49	<a href="#">Open Access Repository of IISc Research Publications</a>	EPrints	34094
50	<a href="#">OpenMED@NIC</a>	EPrints	2866
51	<a href="#">Raman Research Institute Digital Repository</a>	DSpace	5039
52	<a href="#">Sardar Vallabhbhai National Institute of Technology EPrints</a>	EPrints	14
53	<a href="#">ShodhGanga: A resevior of Indian Theses</a>	DSpace	3385
54	<a href="#">Vidya Prasarak Mandal - Thane</a>	DSpace	1108

**Table 2a: Analysis of Software used for Indian IR on DOAR**

S.N.	Name of Software	No. of organization
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1	Dspace	37
2	Eprints	13
3	Greenstone	1
4	Nitya-	1
5	Unknown	2
Total No. of Indian IR		54

Table 2a shows the software used for Indian IR (IIR) on DOAR . Dspace software used by 37 IIR followed by Eprints software of 13 IIR. Greenstone and Nitya software used by only one IIR respectively .There are two IIR who have not specified its software used .It is observed that Dspace and Eprints are most common software used for IRR .

**Table 2b: Analysis of records(items ) included in IIR on DOAR**

S.N.	Range of Items	No.of IIR
1	1-1000	24
2	1001-2000	7
3	2001-3000	6
4	3001-4000	1
5	4001-5000	1
6	5001-6000	7
7	6001-8000	0
8	8001-9000	1
9	9001-10000	0
10	10001-20000	2
11	20001-30000	1
12	30001-40000	1
13	40001-90000	1
14	Items Not shown	2
Total No. of IIR		54

No. of items included in IIR is shown in table 2b . Most of IIR contains item in the range of 1 – 1000 , their count is 24 followed by 7 IIR contains its range in 1001-2000 item. Maximum items found are 89726 by Indian Academy of Sciences : publication of fellows and minimum by Eprint@NII i.e. 10 item .Two IIR not shown any item.

**Table 3 : Contents of IIR on DOAR**

S.N.	Repository name	Pubs	Confs	Theses	Unpub	Others	Base URL
1	<u>Catalysis Database</u>		+	+			<u>OAI</u>



2	<u>CMFRI Digital Repository</u>	+	+	+	+	+	
3	<u>Delhi College of Engineering Repository</u>					+	+
4	<u>Dhananjayrao Gadgil Library</u>	+				+	+
5	<u>Digital Knowledge Repository of Central Drug Research Institute</u>					+	<u>OAI</u>
6	<u>Digital Library at Indian Statistical Institute, Bangalore</u>						
7	<u>Digital repository of Cochin University of Science &amp; Technology</u>				+		+
8	<u>DigitalLibrary@CUSAT</u>	+	+	+			+
9	<u>DRS at National Institute Of Oceanography</u>			+	+		<u>OAI</u>
10	<u>DSpace @ GGSIPU</u>				+		+
11	<u>dspace @ sdmcet</u>	+			+	+	+
12	<u>DSpace at IBS Ahmedabad</u>	+	+			+	+
13	<u>Dspace at IIT Bombay</u>			+			<u>OAI</u>
14	<u>DSpace at Indian Institute of Management Kozhikode</u>			+	+	+	<u>OAI</u>
15	<u>DSpace at IUCAA</u>			+			<u>OAI</u>
16	<u>DSpace at NCRA</u>				+	+	+
17	<u>DSpace at Vidyanidhi</u>				+		<u>OAI</u>
18	<u>DSpace@IMSC</u>			+			+
19	<u>DSpace@INFLIBNET</u>			+			+
20	<u>Dspace@NITR</u>	+	+	+			<u>OAI</u>
21	<u>DSpace@PDP</u>					+	<u>OAI</u>
22	<u>DSpace@TU</u>			+	+		
23	<u>DU Eprint Archive</u>	+	+	+			+
24	<u>eGyankosh</u>						+
25	<u>Electronic Theses and Dissertations at Indian Institute of Science</u>				+		<u>OAI</u>
26	<u>Eprint@NML</u>	+	+	+			+
27	<u>Eprints@IARI</u>			+	+	+	
28	<u>EPrints@IITD</u>				+		<u>OAI</u>
29	<u>ePrints@NII</u>					+	<u>OAI</u>
30	<u>Eprints@SBT MKU</u>						<u>OAI</u>
31	<u>Etheses - A Saurashtra University Library Service</u>				+		+
32	<u>ICRISAT Open Access Repository</u>			+			+
33	<u>IIT Roorkee Repository</u>			+			+
34	<u>Indian Academy of Sciences: Publications of Fellows</u>						

35	<u>Indian Institute of Astrophysics Repository</u>			+		+	<u>OAI</u>
36	<u>Indian Institute of Management Kozhikode Digital Library</u>	+				+	
37	<u>Indian Institute of Petroleum Institutional Repository</u>						
38	<u>Institutional Repository of Intectual Contributions of Delhi Technological University</u>			+		+	<u>OAI</u>
39	<u>Kautilya Digital Repository at IGIDR</u>		+	+	+		<u>OAI</u>
40	<u>Knowledge Repository of Indian Institute of Horticultural Research</u>				+	+	
41	<u>Knowledge Repository Open Network</u>		+	+			<u>OAI</u>
42	<u>Librarians' Digital Library</u>		+	+		+	<u>OAI</u>
43	<u>Mahatma Gandhi University Theses Online</u>			+			
44	<u>Management Development Institute - Open Access Repository</u>	+	+			+	<u>OAI</u>
45	<u>National Aerospace Laboratories Institutional Repository</u>		+	+	+	+	<u>OAI</u>
46	<u>National Science Digital Library</u>	+					<u>OAI</u>
47	<u>NISCAIR Online Periodical Repository</u>					+	
48	<u>Open Access Agricultural Research Repository</u>	+	+				
49	<u>Open Access Repository of IISc Research Publications</u>	+	+		+	+	<u>OAI</u>
50	<u>OpenMED@NIC</u>						<u>OAI</u>
51	<u>Raman Research Institute Digital Repository</u>				+	+	<u>OAI</u>
52	<u>Sardar Vallabhbhai National Institute of Technology EPrints</u>		+				<u>OAI</u>
53	<u>ShodhGanga: A resevior of Indian Theses</u>			+			
54	<u>Vidya Prasarak Mandal - Thane</u>		+			+	

Note - sign + in shows respective contents is present and blank cell denotes absence .

Table 3 reveals contents of Information sources and base URL . There are 31 IIR provides OAI based service. In this service , OAI-PMH compliant software ( PKP harvester) harvest metadata from registered open access repositories .

**Table 3a : Analysis of contents of IIR on DOAR**

S.N.	Contents	No. of IR
1	Publication	13
2	Conferences	26
3	Theses	26
4	Unpublished	16
5	Other	28

Table 3a narrates the analysis of contents included in IIR on DOAR. It is concluded from table that contents of publication type are 13, conference – 26, theses – 26 , unpublished – 16 and others – 28 . Research organization in India have been giving online open access to theses due to UGC guidelines hence more no. of IIR i.e. 26 found on DOAR .

**Table 4 : Analysis of types of IIR on OAIR**

S.N.	Repository type	No. of Repositories
1	Institutional	48
2	Aggregating	3
3	Disciplinary	3
Total No. of IIR		54

Table 6 describe the analysis of types of repositories on DOAR. Where , Institutional means an institutional or departmental repository , Aggregating means an archive aggregating data from several subsidiary repositories and Disciplinary means a cross-institutional subject repository. There are 48 Institutional repositories getting rank 1 on DOAR .

**Table 5 : Analysis of current operational status ( 28<sup>th</sup> Nov. 2012 ) of IIR**

S.N.	Current Status of IR	No. of IR
1	Operational	42
2	Broken	9

<b>3</b>	Trial	<b>3</b>
Total IR		

Table 5 shows the analysis of current operational status of IIR. There are 42 Operational (Full functioning) IIR on DOAR. Also broken repositories due to technical malfunctioning are 9 followed by 3 trial IIR.

**Table 6 : Analysis of subject listed in IIR on DOAR**

<b>S.N.</b>	<b>Subjects</b>	<b>Total No. of IR</b>
<b>1</b>	Multidisciplinary	<b>23</b>
<b>2</b>	Science General	<b>6</b>
<b>3</b>	Agriculture, Food and Veterinary	<b>4</b>
<b>4</b>	Biology and Biochemistry	<b>5</b>
<b>5</b>	Chemistry and Chemical Technology	<b>8</b>
<b>6</b>	Earth and Planetary Sciences	<b>1</b>
<b>7</b>	Ecology and Environment	<b>2</b>
<b>8</b>	Mathematics and Statistics	<b>6</b>
<b>9</b>	Physics and Astronomy	<b>6</b>
<b>10</b>	Health and Medicine	<b>5</b>
<b>11</b>	Technology General	<b>10</b>
<b>12</b>	Civil Engineering	<b>3</b>
<b>13</b>	Computers and IT	<b>4</b>
<b>14</b>	Electrical and Electronic Engineering	<b>3</b>
<b>15</b>	Mechanical Engineering and Materials	<b>5</b>
<b>16</b>	Arts and Humanities	<b>1</b>
<b>17</b>	General Social Sciences	<b>1</b>
<b>18</b>	Business and Economics	<b>3</b>
<b>19</b>	Library and Information Science	<b>4</b>
<b>20</b>	Management and Planning	<b>2</b>

21	Psychology	1
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Table 6 describe the analysis of subjects listed in IIR on DOAR. Most large institutions effectively hold all subjects in their repositories. They are therefore categorized as 'Multidisciplinary' in DOAR. There are 23 IIR which occupies multidisciplinary subjects . It has been concluded from table that there are few IIR concerned on one subject for ex- Only 4 IIR are found on Library & Information Science subject .

**Table 7 : Analysis of Policies included in IIR on DOAR**

S. N	Policies Used	Unkno wn	Unst ated	Undef ined	No t Profit	Defi ned	Uncl ear	No rig ht	No rob ots	Vari able	To tal
1	Reorde d metadata Re-use Policies	-	6	41	7	-	-	-	-	-	54
2	Reorde d content Policies	-	6	43		5	-	-	-	-	54
3	Reorde d submissi on Policies	-	6	38		10	-	-	-	-	54
4	Reorde d preservat ion Policies	-	18	34		2	-	-	-	-	54
5	Reorde d ( Full text ) data reuse Policies	-	6	41	3	-	-	-	2	2	54

**Note :** **Unknown** – Metadata policies unknown , **Unstated** – Metadata policies not stated, **Undefined** - Metadata re-use policy explicitly undefined ,**Not Profit** - Metadata re-use permitted for not-for-profit purposes, **Defined** - Metadata re-use policy explicitly ,Undefined, **Unclear** - Metadata re-use policy unclearly stated, **No right** - All metadata re-use prohibited, **No robots** - Harvesting full data items by robots prohibited, **Variable** - Rights vary for the re-use of full data items

Table 7 shows the analysis of policies included in IIR on DOAR . Recorded metadata reuse policies undefined by 41 IIR followed by unstated 6 and 7 Non Profit. 43 IIR undefined their recorded content policies followed by unstated 6 and 5 defined . Recorded submission policies are undefined by 38 IIR followed by defined 10 IIR and unstated 6 IIR .34 IIR recorded preservation policies as compared to 18 unstated IIR and 2 defined IIR. Recorded (Full – text) data reuse policies are given by 41 IIR followed by unstated 6 IIR , 3 Not Profit , 2 No robots and 2 Variable IIR .

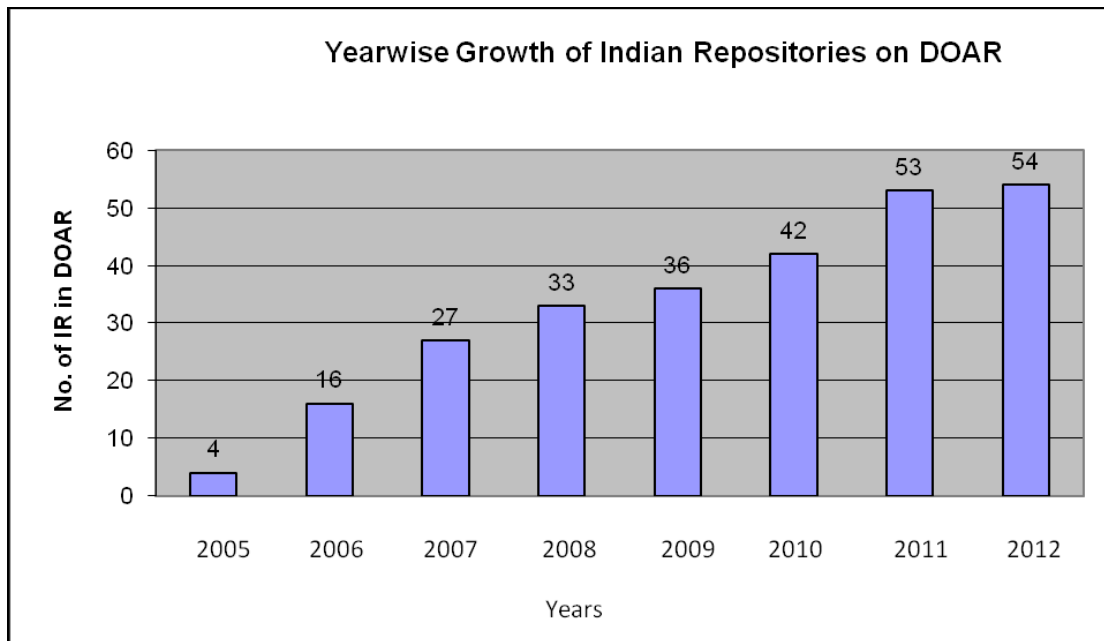
If policy information of respective IR was not given to DOAR at all, the status is set to 'Unknown'. If there is information on policies, but the particular policy is not covered, the status is set to 'Unstated'. In some cases, there may be a slot for the relevant policy, but all it says is 'not yet defined'. In these cases status set as 'Undefined' by DOAR .

**Table 8 : Analysis of Languages included in IIR on DOAR**

S.N.	Language Included	No. of IIR
1	English	53
2	Hindi	7
3	Malayalam	2
4	Kannnada	2
5	Persion	1
6	Marathi	1
7	Gujrathi	1
8	Sanskrit	1

Table 7 shows analysis of languages included in IIR on DOAR . Highest no. of language used in IIR is English . There are 53 IIR using English language followed by Hindi i.e 7 IIR .

**Fig 1 : Growth of the IIR on DOAR**



This graph shows the changing size of Indian Repositories on DOAR Database over time. In year 2005 only four IIR enrolled thereby every year IIR increases and today total 54 IIR present on DOAR .

## 7. FINDINGS

- Dspace and Eprints are most commonly used software for IIR .
- Maximum no. of items ( 89726) are uploaded by Indian Academy of Sciences :Publication of fellows followed by Open Access repository of IISC Research publication ( 34094 ) .
- Most of IIR are undefined their policies.
- Increasing growth of IIR on DOAR found during year 2005 to 2012 .
- Metadata reuse is permitted for Non Profit purpose by 7 IIR .
- Multidisciplinary subject are found on most IIR .
- Theses and conference contents are major information sources on IIR .
- English is the most common language used in items of IIR .

## 8. CONCLUSION

Libraries should take the lead in setting up IR and OA publishing platforms. They should also educate the researchers about the benefit of facilitation of OA to their publication and clarify the misconception about metadata harvesting service provider like DOAR . There are

large number of organization in India who have setup their IR but at present few organization ex. 54 were given open access to their IR on DOAR . Many organization in India keeping their IR on LAN only , because of copyright policies and restrictions by authors . The study concludes with a positive note as open access will picking result in setting up of good no. of IR in India on DOAR .

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