

Collaborative Services through Websites of Institutional Repositories in India: An Evaluation

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Abstract—The technological advances today make it possible to think in terms of storing all the knowledge of the human race in digital form and several organizations worldwide are experimenting with less-expensive ways to create Institutional Repositories for long-term preservation of our knowledgebase and cultures. At present many institutions have repositories and maintain much of its own websites and provide all kinds of information about the functioning. This paper is focused on “An Evaluation of Websites of Institutional Repositories in India” This paper aims to study and analyze the Websites of Institutional Repositories in India. These websites of Institutional Repositories reveal various facets such as services, and facilities available on Institutional Repositories in India i.e.54.The evaluation process is achieved by grading and ranking. Out of these, some Institutional Repositories websites are ranked and finally a model of Institutional Repositories is given.

Keywords: Institutional Repositories, Digital Repositories, E-Archives, DSpace

INTRODUCTION

Digital technology can make all the significant literary, artistic, and scientific works of mankind permanently digitally preserved and made accessible to the billions of people all over the world. The technological advances today make it possible to think in terms of storing all the knowledge of the human race in digital form and several organizations worldwide are experimenting with less-expensive ways to archive and disseminate scholarly information and in-house knowledge as Institutional Repositories. For example, the California Digital Library's e-Scholarship program at the University of California, ArXiv.org at Cornell University etc support open-access distribution of scholarship in cross-disciplinary through subject-based approach. U.S. Library of Congress' US \$100 million National Digital Information Infrastructure and Preservation Program (NDIIPP), which is developing a standard way for institutions to preserve their digital archives. Librarians and computer scientists are working together at MIT for Dspace digital asset management system, which aims to create an institutional repository that will include digitized versions of lecture notes, videos, papers, and data sets—in short, everything produced by faculty and staff.

Institutional Repository

An Institutional repository is a digital archive of the intellectual output of an Institution. It makes the quality and breath of scholarship produced at that Institution accessible to others worldwide over the Internet. It is a set of services that a University/Organization offers to the members of its community for the management and dissemination of digital material created by the institution and its community members. It is most essentially an organizational commitment to the stewardship of the digital materials including long term preservation. An effective Institutional repository of necessity represents collaboration among librarians, Information technologies, archives and record managers, faculty and University administrators and policy makers. It is a new channel for structuring the organization's contribution to the border world and as such invites policy and cultural reassessment of this relationship. It also form part of a larger global system of repositories which indexed in standardizes way.

Institutional Repositories in India

Nowadays, it is a trend of Institutional repositories all around. Many of the institutions have their repositories which they have built on various open source software. The saddest part of this is that various institutes had created these digital repositories for testing or trial purpose only and could not maintain the pace to streamline those. Many of them are closed and are not being updated regularly. Following is the list of institutional repositories from India which are currently active on the Internet.

Need of the Study

In this information revolution age, online information services provided every day, every moment in all field of human activity. This study attempts to explore coverage of Institutional Repositories on internet. Taking in to consideration the scope and utility of this topic, undoubtedly, this is surely beneficial to all libraries and I.T professionals in this study.

Objectives of the Study

1. To study the Websites of Institutional Repositories available on Internet in India.
2. To study data available on Homepage of Institutional Repositories in India.
3. To evaluate the Websites of Institutional Repositories in India.
4. To evaluate the ranking of top of Institutional Repositories in India.

Scope and Limitations of the Study

An Evaluation of Institutional Repositories in India includes a study based on the information available on website of repositories. In India, there are 54 Institutional Repositories available on Internet, out of these; the study is restricted to 45 Institutional Repositories. The study is all about the data available on Homepage of Institutional Repositories in India. The study is limited to 45 Institutional Repositories in India.

Methodology

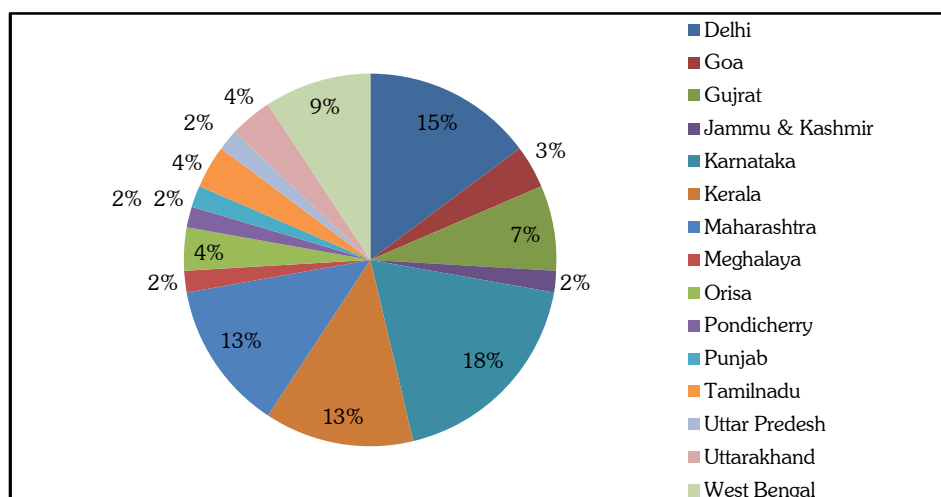
Data is collected by using the websites of Institutional Repositories available on Internet. It was designed to find out the data available on the Institutional Repositories homepage. The data has been analyzed and interpreted.

FINDINGS OF THE STUDY

The table 1 shows that, State wise distribution of Institutional repositories in India out of these 54 institutional repositories in India, 9 Institutional repositories are not active properly. So, 45 institutional repositories are active properly on the Internet and the maximum no. of repositories in India are in. Delhi-8, Karnataka-8 and Maharashtra-7.

Table 1: State Wise Distribution of Institutional Repositories in India

Name of the State	No. of IR	Not Active
Delhi	08	01
Goa	02	02
Gujrat	04	--
Jammu & Kashmir	01	01
Karnataka	10	02
Kerala	07	01
Maharashtra	07	---
Meghalaya	01	--
Orisa	02	--
Pondicherry	01	--
Punjab	01	--
Tamilnadu	02	--
Uttar Pradesh	01	01
Uttarakhand	02	01
West Bengal	05	--
Total	54	09
No. of active	45	

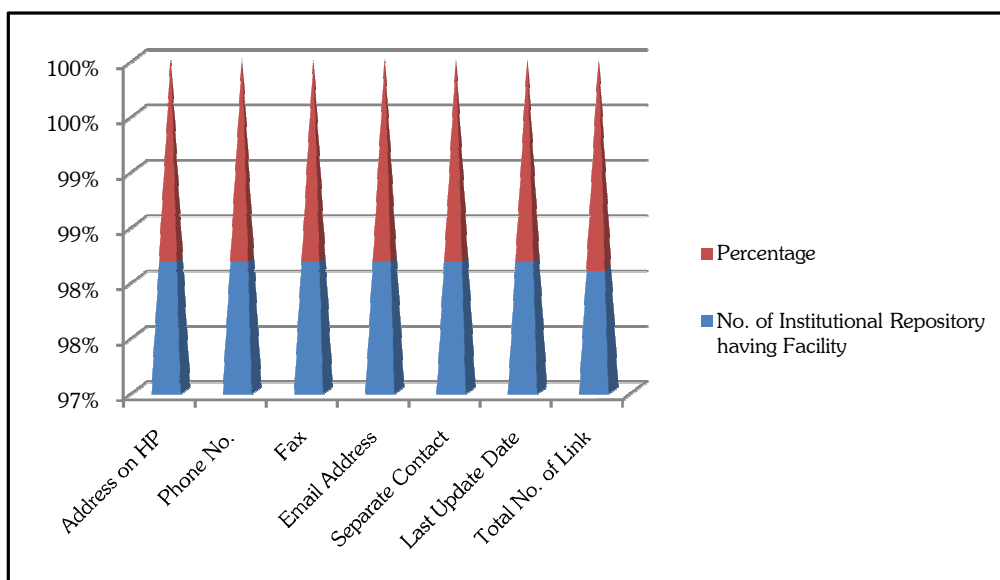


Graph 1: Statewise Distribution of Institutional Repositories in India

It has been observed that out of 54, 11(20.37%) IR provides complete contact details on Homepage. Phone No. by 6(11.11%), Fax 4(7.40%), Email Address 19(35.18%), Separate Contact 12(22.22%), Last Update Date is given on Homepage 6(11.11%) and 45(87.03%) Institutional Repositories have website with their links.

Table 2: Contact Details on Homepage of Institutional Repository in India

Criteria	No. of Institutional Repository Having Facility	Percentage
Address on HP	11	20.37%
Phone No.	6	11.11%
Fax	4	7.40%
Email Address	19	35.18%
Separate Contact	12	22.22%
Last Update Date	6	11.11%
Total No. of Link	45	87.03%



Graph 2: Contact Details on Homepage of Institutional Repository in India

It is observed that out of 54 Institutional Repositories, 37(68.51%) provide home link, 11(20.37%) Login link, 8(14.81%) Register link, 1(1.85%) forgot password link, 1(1.85%) year link, 11(20.37%) contact us link, 33(61.11%) feedback link, 29(53.70%) RSS Feeds link, 1(1.85%) university and Department link, 1(1.85%) Dictionary link, 1(1.85%) distance Learning Centre link, 1(1.85%) Electronic Document Delivery Centre link, 1(1.85%) Rajyasabha Official Debates link, 1(1.85%) Debates Title Wise link, 1(1.85%) Member Participated Wise link, 1(1.85%) Debates Date Wise link, 1(1.85%) Debates title subject wise link, 7(12.96%) Browse link, 23(42.59%) title link, 39(72.22 %) Author link, 9(16.66) By Date link, 2(3.70%) Keywords link, 11(20.37%) publication link, 3(5.55%) have other links, 1 (1.85%) have related link, 2(3.70%) Multimedia link, 3(5.55%) Select Language link, 42(77.77%) Search link, 38(70.37%) Advanced Search link, 2(3.70%) recent Event link,

1(1.85%) Welcome link, 1(1.85%) Sitemap link, 31(57.40%) Subject Search link, 1(1.85%) thesis Guide link, 12(22.22%) Thesis submission date, 23(42.59%) Communication and Collection link, 35(64.81%) Issue Date link, 10(18.81%) Type link, 1(1.85%)Who DOC link, 1(1.85%)ISI link, 1(1.85%)Gallery link, 1(1.85%)Subject link, 4(7.40%)) Subject Link, 1(1.85%)Event link, 1(1.85%)LDL link, 1(1.85%)Stastics link, 1(1.85%)Sign on link, 30(55.55%)Receive Email Update link, 33(61.11%)MY Dspace/Edit Profile, 5(9.25%) Research link, 1(1.85%) Calendar link, 1(1.85%) Education Link, 1(1.85%) People Link, 32(59.25%) Help link, 32(59.25%) About link, 1(1.85%) Vision link, 1(1.85%) E-Resources link, 1(1.85%) My Account Link, 1(1.85%) CC License link, 3(5.55%) Recent Submission link, 1(1.85%) Last Update link, 1(1.85%) Webmaster link, 2(3.70%) Homepage Visit link, 2(3.70%) Research Journals link, 1(1.85%) NISCAIR Online Repository link, 1(1.85%) User Guide link, 1(1.85%) Disclaimer link, 4(7.40%) Conference proceeding link, 1(1.85%) Press Media link, 2(3.70%) Copyright link, 1(1.85%) Subscription link, 1(1.85%) Dictionary link, 1(1.85%) Recent Addition link, 1(1.85%) Administrator link, 1(1.85%) Top Contributing Universities link, 1(1.85%) Recognition link, 1(1.85%) UGC Notification link, 1(1.85%) Guest book link.

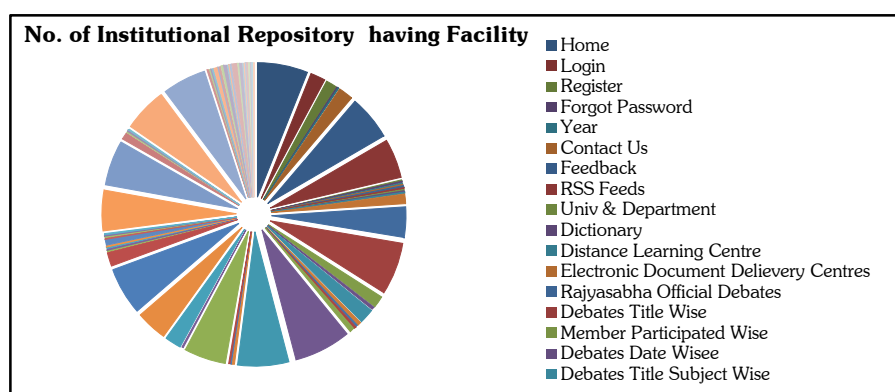
Table 3: Analysis of Content Coverage on Homepage of Institutional Repository in India

Sr. No.	Criteria	No. of Institutional Repository having Facility	Percentage
1	Home	37	68.51%
2	Login	11	20.37%
3	Register	8	14.81%
4	Forgot Password	1	1.85%
5	Year	1	1.85%
6	Contact Us	11	20.37%
7	Feedback	33	61.11%
8	RSS Feeds	29	53.70%
9	Univ & Department	1	1.85%
10	Dictionary	1	1.85%
11	Distance Learning Centre	1	1.85%
12	Electronic Document Delievery Centres	1	1.85%
13	Rajyasabha Official Debates	1	1.85%
14	Debates Title Wise	1	1.85%
15	Member Participated Wise	1	1.85%
16	Debates Date Wise	1	1.85%
17	Debates Title Subject Wise	1	1.85%
18	Browse	7	12.96%
19	Title	23	42.59%
20	Authors	39	72.22%
21	By Date	9	16.66%
22	Keywords	2	3.70%
23	Publications	11	20.37%
24	Other Links	3	5.55%
25	Reated Links	1	1.85%
26	Multimeia	2	3.70%
27	Select Language	3	5.55%
28	Search	42	77.77%
29	Advanced Search	38	70.37%

Table 3 (Contd.)...

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30	Recent Event	2	3.70%
31	Welcome	1	1.85%
32	Sitemap	1	1.85%
33	Subject Search	31	57.40%
34	Thesis Guide	1	1.85%
35	Thesis Submission Date	12	22.22%
36	Communications & Collections	23	42.59%
37	Issue Date	35	64.81%
38	Type	10	18.51%
39	Who Doc.	1	1.85%
40	ISI	1	1.85%
41	Gallery	1	1.85%
42	Subject	1	1.85%
43	Project	4	7.40%
44	Event	1	1.85%
45	LDL	1	1.85%
46	Stastics	1	1.85%
47	Sign On	1	1.85%
48	Receive Email Updates	30	55.55%
49	My Dspace Edit Profile	33	61.11%
50	Research	5	9.25%
51	Calender	1	1.85%
52	Edcation	1	1.85%
53	People	1	1.85%
54	Help	32	1.85%
55	About	32	59.25
56	Vision	1	1.85%
57	E-Resources	1	1.85%
58	My Account	1	1.85%
59	CC Licence	1	1.85%
60	Recent Submission	3	5.55%
61	Last Update	1	1.85%
62	Webmaster	1	1.85%
63	Homepage VISIT	2	3.70%
64	Research Journals	2	3.70%
65	NISCAIR Online Repository	1	1.85%
66	User Guide	1	1.85%
67	Disclaimer	1	1.85%
68	Conference Proceeding	4	7.40%
69	Press Media	1	1.85%
70	Copyright	2	3.70%
71	Subscription	1	1.85%
72	Dictionary	1	1.85%
73	Recent Addition	1	1.85%
74	Administrator	1	1.85%
75	Top Contributing Universities	1	1.85%
76	Recognition	1	1.85%
77	UGC Notofication	1	1.85%
78	Guestbook	1	1.85%

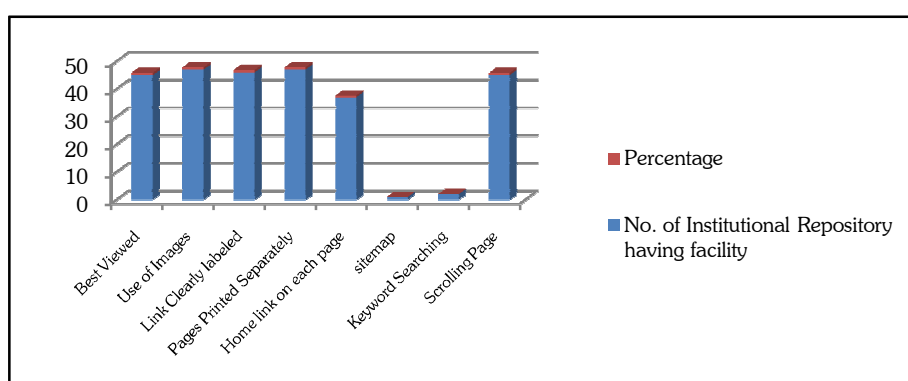


Graph 3: Content Coverage on Homepage of Institutional Repositories in India

It is observed that out of 54 Institutional repositories, 45 (83.33%) websites have included the information of the resolution of the screen and the browser in which the site can be best viewed on their Home Pages. 44(81.48%) websites used images on Homepage. 44(81.48%) Homepages links are clearly labeled. 45(83.33%) websites have printed pages separately. 45(83.33%) have scrolling web-pages. Out of 54, 37 (68.51%) show Homepage link on each page. 2(3.70%) websites have Sitemap, 1(1.85%) websites have keyword searching. All websites has scrolling pages.

Table 4: Analysis of Links Supporting Navigation on Homepage of Institutional Repository in India

Sr. No.	Criteria	No. of Institutional Repository having Facility	Percentage
1	Best Viewed	45	83.33%
2	Use of Images	47	87.03%
3	Link Clearly labeled	46	85.18%
4	Pages Printed Separately	47	87.03%
5	Home link on each page	37	68.51%
6	sitemap	1	1.85%
7	Keyword Searching	2	3.70%
8	Scrolling Page	45	83.33%



Graph 4: Analyses of Links Supporting Navigation on Homepage of Institutional Repositories in India

Table 5: Institutional Repositories in India

Sr. No.	Name of Institutional Repository Criteria	Place	URL
1	IGNOU	Delhi	http://www.egyankosh.ac.in/
2	Indian Institute of Technology, Delhi	Delhi	eprint.iitd.ac.in
3	Indraprastha Institute of information Technology	Delhi	https://repository.iiitd.edu.in/jspui/
4	NISCAIR-National Science Digital Library	Delhi	http://nsdl.niscair.res.in/handle/123456789/939
5	NISCAIR-Online Periodical Directory	Delhi	http://nopr.niscair.res.in/
6	Parliament of India, Official debates of Rajyasabha	Delhi	http://rsdebate.nic.in/
7	World Health Organisation Southeast Asian Region	Delhi	http://repository.searo.who.int/
8	Inflibnet- Institutional Repository	Gujrat	http://ir.inflibnet.ac.in/
9	Inflibnet- Institutional –Shodhganga- Indian ETD	Gujrat	http://shodhganga.inflibnet.ac.in/
10	M.S University of Baroda	Gujrat	http://14.139.121.106:8080/jspui/
11	Pandit Deendayal Petroleum University, Ganghinagar	Gujrat	http://203.77.192.116:8080/xmlui/
12	Indian Institute of Astrophysics, Bangalore	Karnataka	http://prints.iap.res.in/
13	Indian Institute of Horticultural Research	Karnataka	http://www.erepo.iihr.ernet.in/
14	Indian Institute of Science, Bangalore	Karnataka	http://etd.ncsi.iisc.ernet.in/
15	Indian Statistical Institute, Bangalore	Karnataka	https://drtc.isibang.ac.in/
16	Institute for Social and Economic Change	Karnataka	http://203.200.22.249:8080/jspui/
17	KLE University	Karnataka	http://182.48.228.18:8080/jspui/Karnataka
18	Raman Research Institute, Bangalore	Karnataka	http://dspace.rii.res.in/
19	University of Mysore –Vidyanidhi Project	Karnataka	http://dspace.vidyanidhi.org.in:8080/dspace/
20	Cochin University of Science and Technology-Digital	Kerala	http://dspace.cusat.ac.in/jspui/
21	Cochin University of Science and Technology-Dyuthi	Kerala	http://dyuthi.cusat.ac.in/xmlui/
22	Indian Institute of Management, Kozhikode	Kerala	http://dspace.iimk.ac.in/
23	Indian Institute of Spices Research	Kerala	http://dspace.iimk.ac.in/
24	School of Communication and Management Studies (SRM Group)	Kerala	http://dspace.sctimst.ac.in/jspui/
25	Sree Narayana Gurukulam College of Engineering	Kerala	http://117.239.73.132/
26	Gokhale Institute of Politics and Economics	Maharashtra	http://dspace.gipe.ac.in/jspui/
27	Indian Institute of Technology, Bombay	Maharashtra	http://dspace.library.iitb.ac.in/jspui/
28	Indira Gandhi Institute of Development Research	Maharashtra	http://oii.igidr.ac.in:8080/jspui/
29	Inter-University Centre for Astronomy and Astrophysics	Maharashtra	http://www.iucaa.ernet.in:8080/jspui/
30	National Centre for Radio Astrophysics	Maharashtra	http://ncralib1.ncra.tifr.res.in:8080/jspui/
31	Urban Aspirations in Global Cities	Maharashtra	http://uagc.tiss.edu/jspui/
32	Vidya Prasarak Mandal	Maharashtra	http://dspace.vpmthane.org:8080/jspui/index.jsp
33	North-Eastern Hill University	Meghalaya	http://dspace.nehu.ac.in/
34	Indian Institute of Technology, Roorkee	Orissa	http://bhagirathi.iitr.ac.in/dspace/
35	National Institute of technology, Rourkela (NITR)	Orissa	http://dspace.nitrkl.ac.in/dspace/
36	Pondicherry University	Pondicherry	http://dspace.pondiuni.edu.in/jspui/
37	Thapar University, Patiala	Punjab	http://dspace.thapar.edu:8080/dspace/

Table 5 (Contd.)...

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38	Institute of Mathematical Sciences	Tamil Nadu	http://www.imsc.res.in/xmlui
39	SRM University	Tamil Nadu	http://digitallibrary.srmuniv.ac.in/dspace/
40	Aryabhata Research Institute of Observational Sciences	Uttarkhand	http://210.212.91.105:8080/jspui/handle/123456789/1
41	Anwesana @ SNLIR by CSE, IIT Kharagpur	West Bengal	http://anwesana.iitkgp.ernet.in:8080/jspui/
42	Indian Association for the Cultivation of Sciences	West Bengal	http://arxiv.iacs.res.in:8080/jspui/
43	Indian Statistical Institute Kolkata	West Bengal	http://library.isical.ac.in/jspui/
44	Jadavpur University	West Bengal	http://dspace.jdvu.ac.in/
45	West Bengal Public Library Network	West Bengal	http://dspace.wbpublibnet.gov.in:8080/jspui/

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