
Institutional Repository of INFLIBNET Centre Using Dspace

Thiyam Satyabati

H G Hosamani

T A V Murthy

Abstract

Universities and other organization are producing digital objects articles, reports, thesis, Audio/Video, datasets in ever increasing number. Libraries around the world are building up their own Institutional repository centre using a variety of software packages for digital asset and content management and also collect, preserve and provide access to these digital objects. This paper will highlight the needs of an Institutional Repository and the initiative taken up by the INFLIBNET (Information and Library Network Centre) in building up the Institutional Repository by using the open source software Dspace developed by the Massachusetts Institute of Technology.

Keywords: Institutional Repository, Dspace, INFLIBNET, Digital Library

0. Introduction

INFLIBNET Information and Library Network is an Autonomous IUC of the University Grants Commission (UGC) started in 1991 with its Headquarters located at Gujarat University campus, Ahmedabad. The Programme is directed towards modernization of libraries and Information centres, and establishment of a mechanism for information transfer and access, to support scholarship, learning and academic pursuits. It also aimed at establishing a National Network of Libraries and Information Centres in Universities, institutions of higher learning and R & D Institution in India. It is basically a co-operative endeavor in resource development, sharing and its utilization at national level. The main objective being to evolve a National Network, interconnecting various Libraries and Information Centers in Universities, deemed universities, colleges, UGC information centers, Institutions of National importance and R & D institutions, the centre has taken the initiative of building Dspace INFLIBNET an Institutional Repository using the open source software Dspace to support the long term preservation of the digital material for the Academic community. So far the centre has already hosted the CALIBER proceedings, Course materials, Newspaper clipping etc.

The Academic community can also submit their resourceful articles in this repository centre and preserved it for future use. The building of an Institutional Repository is needed in the present scenario of digital world because of the following certain changes:

- ✍ Technological changes.
- ✍ Significant increase in the overall volume of research.
- ✍ Increasing dissatisfaction especially on the part of Librarians with traditional print and electronic journals price and market model that have become less relevant and more difficult to sustain in a period of rapidly escalating prices and relatively flat library budgets.
- ✍ Increase uncertainty over who will handle the preservation archiving of digital scholarly research materials.

All these factors have evolved and combined to create new expectations in the Academic community for the production, distribution and interchange of scholarly communication and to force a rethinking of the relative roles of authors, librarians and publishers as well as the possibility of entirely new actors who will emerge as the publishing model. In such an environment Institutional repository might act well to preserve an Institutional intellectual work product.

1. Institutional Repository

An Institutional repository is a digital archive of the intellectual output of an Academic Institution. It makes the quality and breath of scholarship produced at that Institution accessible to others world wide 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. At any given point in time, an Institutional repository will be supported by a set of Information technologies but a key part of the services that comprises an Institutional repository is the management of technological changes and the migration of digital content from one set of the technology to the next as a part of the organizational commitment providing repository services.

The basic and fundamental level of an Institutional repository is that it is a recognition that the intellectual life and scholarship of an University will increasingly be represented documented and shared in digital form and that a primary responsibility of our University is to exercise stewardship over these riches both to make available and to preserve them. It is the mean by which a University/Organization will address the responsibility both to the members of their communities and to the public. It is a new channel for structuring the University contribution to the border world and as such invites policy and cultural reassessment of this relationship.

2. Importance of Institutional Repositories

Institutional repositories centralize, preserve and make accessible the knowledge generated by Academic Institution. It also form part of a larger global system of repositories which indexed in standardizes way and searchable using one interface, providing the foundation for a new model of scholarly publishing. Institutional repositories often employ a method of article submission known as author self-archiving and rely on user communities to control the input of content. These can include academic departments; research centers administrative groups and other sub-group who will determine what content merits inclusion and act as arbiters for their own research communities. Author self-archiving is the broad term often applied to the electronic posting of author-supplied research without publisher mediation. It involves a simple web interface where the depositors types or copy/pastes in the metadata and then attaches the full text documents.

Institutional repositories also have roles beyond disseminating and managing the works of individuals scholars that are part of the dialog of scholarly communication and it is also a place where we can put much of the material that research libraries identify as worth collecting and they offer a framework for organized stewardship and accessibility of these materials. It can encourage the exploration and adoption of new forms of scholarly communication that exploit the digital medium in fundamental way. They can support new practices of scholarship that emphasizes data as an Integral part of the record and discourse of scholarship. They can structure and make effective otherwise diffuse efforts to capture and disseminate learning and teaching materials symposia and performances and related documentation of the intellectual life of Universities.

Institutional repositories benefit both the Institution and its scholars by raising the Institutional profile while also bringing broader dissemination, increased use and enhanced professional visibility of scholarly research others benefits are:

- ✍ Improved visibility and impact-Institutional, National;
- ✍ Contribute to institutional knowledge management;
- ✍ Improve Research collaboration-interdependent, inter-Institutional, International;
- ✍ Enhanced status and reputation;
- ✍ Enhanced research capacity.

Realizing the needs of the scholars and the benefits of building an Institutional Repository Centre the INFLIBNET (Information and Library Network Centre) being the nodal point of all the Indian University has started this Institutional Repository Centre called Dspace INFLIBNET using the open source software package dspace developed by MIT and Hewlett-Packard (H P).

3. Dspace

Dspace is an open source software platform that enables institution to:

- ✍ Capture and describe digital works using a submission workflow module;
- ✍ Distribute an institutions digital works over the web through a search and retrieval system;
- ✍ Preserve digital works over the long term.
- ✍ The mission is to create and establish an electronic system that captures, preserve and communicates the intellectual output.

The vision is a federation of system that makes available the collective intellectual resources of the world leading research Institution.

It supports all manner of digital format (e.g. Articles, preprint, working paper, technical reports, and conference papers).

- ✍ Books
- ✍ Thesis
- ✍ Datasets
- ✍ Computer programs
- ✍ Visualization, simulation and other models
- ✍ Multimedia publication
- ✍ Learning objects.
- ✍ The other facilities which are available in this open source software package are:
- ✍ Browse
- ✍ Search
- ✍ Advance search
- ✍ Communities
- ✍ Collection
- ✍ Sign on to Dspace
- ✍ Submit
- ✍ File format
- ✍ My Dspace
- ✍ Edit profile
- ✍ Subscribe to e-mail alerts

Here is a model for submission of an article in this Institutional Repository.

This is the front page of INFLIBNET Dspace

The screenshot shows the front page of INFLIBNET DSpace. On the left, there is a sidebar with a search box, a 'Go' button, and a link to 'Advanced Search'. Below this are links for 'Home', 'Browse' (with sub-links for 'Communities & Collections', 'Titles', 'Authors', and 'By Date'), 'Sign on to:' (with sub-links for 'Receive email updates', 'My DSpace authorized users', 'Edit Profile', 'Help', and 'About DSpace'). The main content area is titled 'DSpace @ INFLIBNET >' and features a yellow banner that says 'DSpace@INFLIBNET is Live' with a welcome message and a note that more exciting news will appear. Below the banner is a search section with the text 'Search' and 'Enter some text in the box below to search DSpace.', followed by a search input field and a 'Go' button. At the bottom of the main content area is a section titled 'Communities in DSpace' with the instruction 'Select a community to browse its collections.' and a list of links: 'dArchive India', 'INFLIBNET in Press and Media', 'INFLIBNET's Convention Proceedings', and 'INFLIBNET's Publications'. On the right side, there is a sidebar with the logo 'Dspace@INFLIBNET' and the text 'Please Contribute to various communities'.

If you are member of the Dspace you can submit the article following the given steps.

✍ The steps are as follows:
Open the Dspace page. <http://www.dspace.inflibnet.ac.in>

✍ Then go to My Dspace then Log in to DSpace
Then on the screen you will see.

✍ My DSpace: Thiyam Satyabati Devi

Start a New Submission

View Accepted Submissions

See your Subscription

- ✍ For submitting articles click on start a New Submission.
Then the screen will appear as:
- ✍ **Submit: Choose Collection**
Select the collection you wish to submit an item to from the list below, then click "Next"

Unfinished Submissions

Title	Submitted to		
Untitled	IRTPLA Course Material	Resume	Remove...
Untitled	500: Natural Sciences and Mathematics(General)	Resume	Remove...

- ✍ **Submit: Describe Your Item**
Please check the boxes next to the statements that apply to your submission

Select the collection you wish to submit an item to from the list below, then click "Next". [More Help...](#)

Collection

Just click on the appropriate box then click "Next"

- ✍ **Submit: Describe Your Item**

Fill in the requested information about your submission below. In most browsers, we can use the tab key to move the cursor to the next input box or button, to save you having to use the mouse each time.

The item has more than one title, e.g. a translated title

The item has been published or publicly distributed before

The item consists of *more than one* file

Authors

Enter the main title of the item.
Title

Please give the date of previous publication or public distribution below. You can leave out the day and/or month if they aren't applicable.
Date of Issue Month: Day: Year:

Enter the name of the publisher of the previously issued instance of this item.
Publisher

Enter the standard citation for the previously issued instance of this item.
Citation

Enter the series and number assigned to this item by your community.
 Series Name Report or Paper No.
Series/Report No.

If the item has any identification numbers or codes associated with it, please enter the types and the actual numbers or codes below.
Identifiers

Select the type(s) of content you are submitting. To select more than one value in the list, you may have to hold down the "CTRL" or "Shift" key.
Type

Select the language of the main content of the item. If the language does not appear in the list below, please select "Other". If the content does not really have a language (for example, if it is a dataset or an image) please select "N/A".
Language

Other Language can be selected from the drop down when click next and fill up the remaining Information.

Submit: Describe Your Item

Enter appropriate subject keywords or phrases below:

Enter appropriate subject keywords or phrases below.
Subject Keywords

Enter the abstract of the item below.

Abstract

Enter the names of any sponsors and/or funding codes in the box below.

Sponsors

Enter any other description or comments in this box.

Description

Submit: Upload a File

Please enter the name of the file on your local hard drive corresponding to your item. If you click "Browse..." a new window will appear in which you can locate and select the file on your local hard drive.

Document File:

After loading the file then click "Next" the file is loaded then "Next" and the final stage where you will find to grant license just click on I grant the licenses then the submission is finished. This is how we submit articles in Dspace INFLIBNET.

4. Conclusion

Institutional Repositories significantly extend the role of a library. And it is a very clear that the Institutional repository is a very powerful idea that can serve as an engine of change for our institution of higher education and more broadly for the scholarly enterprises that they support. If it is developed properly it advances a surprising number of goals and addresses an impressive range of needs. Institutional repositories build on a growing grassroots faculty practice of posting research online, most often on personal web sites, but also on departmental sites or in disciplinary repositories. This demonstrates a desire for expanded exposure of and access to their work. In addition digital publishing technologies ever-expanded global networking and enabling interoperability protocols and metadata and standards are coalescing to provide practical technical solution that can be implemented now. The convergence of

these interrelated strands indicates that the Institutional repositories merit serious and immediate consideration from Academic Institutions and their constituent faculty, librarian and administrators.

The needs for consortia repositories is urgent since every Academic Institutions will not want to run a repository and it is the right time the INFLIBNET has initiated this program for the whole Academic community.

5. Acknowledgement:

The authors of the paper profoundly thank the entire colleague and all other staff members of INFLIBNET Centre for their support and encouragement. Thanks are also due to all the members of the PLANNER-2004 set up by the INFLIBNET Centre for selecting the article.

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About Authors



Ms. Thiyam Satyabati Devi is currently working as a Project Scientist (LS) in the HRD Division in INFLIBNET Centre. She holds B.Sc. Biochemistry, MLISc and DCA. She had published around 10 papers in Regional, National and as well as in International level. She attended a number of seminars and conferences. She has also worked on a project on Bibliography Compilation of Manipuri Literature under Sahitya Akademi, New Delhi.



Sh. H.G. Hosamani Scientist-B (LS) is currently the Head of HRD and consultancy department INFLIBNET Centre. He holds M.A. in political Science and MLISc. He has been working with this centre for the last 11 years. He has coordinated a number of training programs in collaboration with the Indian Universities both external and internal. His major specializations are data conversion, setting up digital library and Library Automation. He has attended a number of Conferences and seminars and published 12 papers at national level. He has been looking after the Library right from the beginning.



Dr. T.A.V. Murthy is Director of INFLIBNET and President of SIS. He holds B Sc, ML I Sc, M S L S (USA) and Ph.D. He carries with him a rich experience and expertise of having worked in managerial level at a number of libraries in many prestigious institutions in India including National Library, IGNC, IARI, University of Hyderabad, ASC, CIEFL etc. and Catholic University and Case Western Reserve University in USA. His highly noticeable Contributions include KALANIDHI at IGNC, Digital Laboratory at CIEFL etc. He has been associated with number of universities in the country and has guided number of PhDs and actively associated with the national and international professional associations, expert committees and has published good number of research papers. He visited several countries and organized several national and international conferences and programmes