Digital Libraries in India with special reference to experiences at IGNCA, New Delhi, India

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2/15/2006

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Will talk about………

- **India**
- **This visit to Germany**
- **About Indira Gandhi National Centre for the arts (IGNCA)**
- **Digital Library Initiatives at IGNCA**
- **Digital Libraries in India**
  - **Models of publishing: Print V/s Electronic**
  - **Challenges & Opportunities**
  - **Funding for Digital Libraries in India**
  - **Digital Libraries and Open Access Publishing (OAP)**
  - **Potential for Digital Library Initiatives in India**
  - **Current Digital Library initiatives in India: Examples**
  - **Digital Library Model for India**
- **Conclusions**
- **Forging Collaborative Partnerships**
- **Acknowledgements**

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India: A brief profile

- **7th largest country with total area of 32,87,2631 sq kms**
- **India-1 billion Population, 28 states, 7 Union territories, *22 official Languages, 300 dialects, and about 1500 spoken languages***
- *Indian Society- more heterogeneous than any other society of the world with 7 major religious groups with many minor ones, six main ethnic groups, 434, tribal or indigenous communities, 3000 castes*
- *Rising economy with 7% GDP and 10% projected for next year*
- *Very rich in terms of both tangible and intangible cultural heritage*
- **The third largest scientific and technical manpower in the World, accounts for 3% of the world's publication output.**
- *http://www.india.gov.in/*

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India: One of the oldest civilization

• India is one of the oldest civilizations

• History of more than 3000 years

• Has great cultural heritage, known for classical Dance, music, arts and handicrafts, ancient monuments, Ayurveda – Indian system of medicine and Yoga

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Visit to Germany
(Feb 6, 2006 to Feb 25, 2006)

With the support of Goethe Institute-Max Mueller Bhawan, New Delhi a Team consisting of following Library & Information Professionals visiting various institutions in Germany

1. Dr. Ramesh C. Gaur, IGNCA, New Delhi (Librarian)
2. Dr. Devika Madalli, DRTC, Bangalore (Teacher of Library Science)
3. Dr. G K. Manjunath, G.K, IGIDR, Bangalore (Librarian)
4. Dr. Aditya Tripathi, Banaras Hindu University, Varanasi (Teacher of Library Science)

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Visit to Germany

Purpose:

1. To study digital library practices in various German Institutions

2. Sharing of experiences

3. To develop long term Indo-German DL collaboration and Inter Library cooperation in other common areas of interest

4. As a result of this visit, development of a e-learning module on " how to develop a digital library?" during a workshop in New Delhi in April or May 2006.

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IGNCA : AN INTRODUCTION

The Indira Gandhi National Centre for the Arts is visualized as a centre encompassing the study and experience of all the arts – each form with its own integrity, yet within a dimension of mutual interdependence, interrelated with nature, social structure and cosmology.   The arts are here understood to comprise the fields of creative and critical literature, written and oral; the visual arts, ranging from architecture, sculpture, painting and graphics to general material culture, photography and film; the performing arts of music, dance and theatre in their broadest connotation; and else in fairs, festivals and lifestyle that has an artistic dimension.

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Various divisions in IGNCA

- ◆ Kala Nidhi
- ◆ Kala Kosha
- ◆ Kala Darshan
- ◆ Janpada Sampada
- ◆ Sutra Dhara
- ◆ Cultural Informatics Lab

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Kalānidhi

- The Kalanidhi is a National Information System and a Data Bank of the arts, humanities, cultural heritage with a fully supported reference library of multimedia collections. This information System and Data Bank will serve as a major resource centre for research in humanities, in the arts, in the disciplines of Archaeology, Anthropology, History, Philosophy, Literature, Language, Arts, Crafts etc.

- Total collection about 800,000 in form of Books, Journals, Slides, Microfilms, Microfiches, Photos, Glass plates, Negatives, artifacts, art objects, audio, video, Masks, music instruments, paintings, rare books, manuscripts etc.

Asoka

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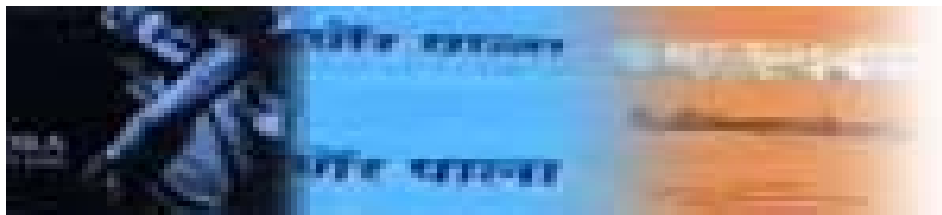
◆ While the Kalanidhi collects primary and secondary material, sifts information and evolve databases, the **Kalakosha** investigates the intellectual traditions in their dimensions of multi-layers and multi-disciplines. As a research and publication division it endeavours to place the arts within the integral framework of a cultural system, combining the textual with the oral, the visual with the aural, and theory with practice

Arjuna

Kalādarśana

◆ The Kala Darshan division of the IGNCA provides the venue and forum for facilitating a creative dialogue amongst cultures, disciplines, levels of society and diverse arts through its programmes it has established a unique style of projection and presentation of the arts.

Kadamba

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Janapada Sampadā

◆ Janpada Sampada complements the programmes of Kala Kosha, and aims at understanding the Arts in their eco-cultural and socio-economic contexts. Its emphasis is on the oral tradition that orients the literature tradition in reality. Here theory and practice, textural and oral, verbal, visual and kinetic are seen as a semiotic whole, not as items to be aggregated.
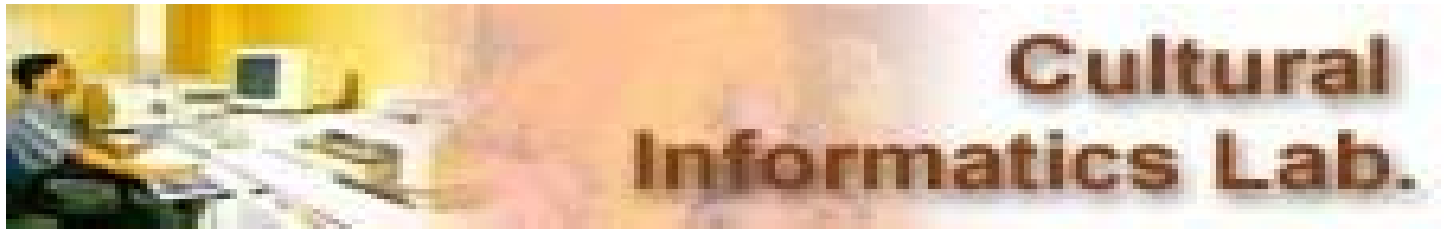
Nyagrodha

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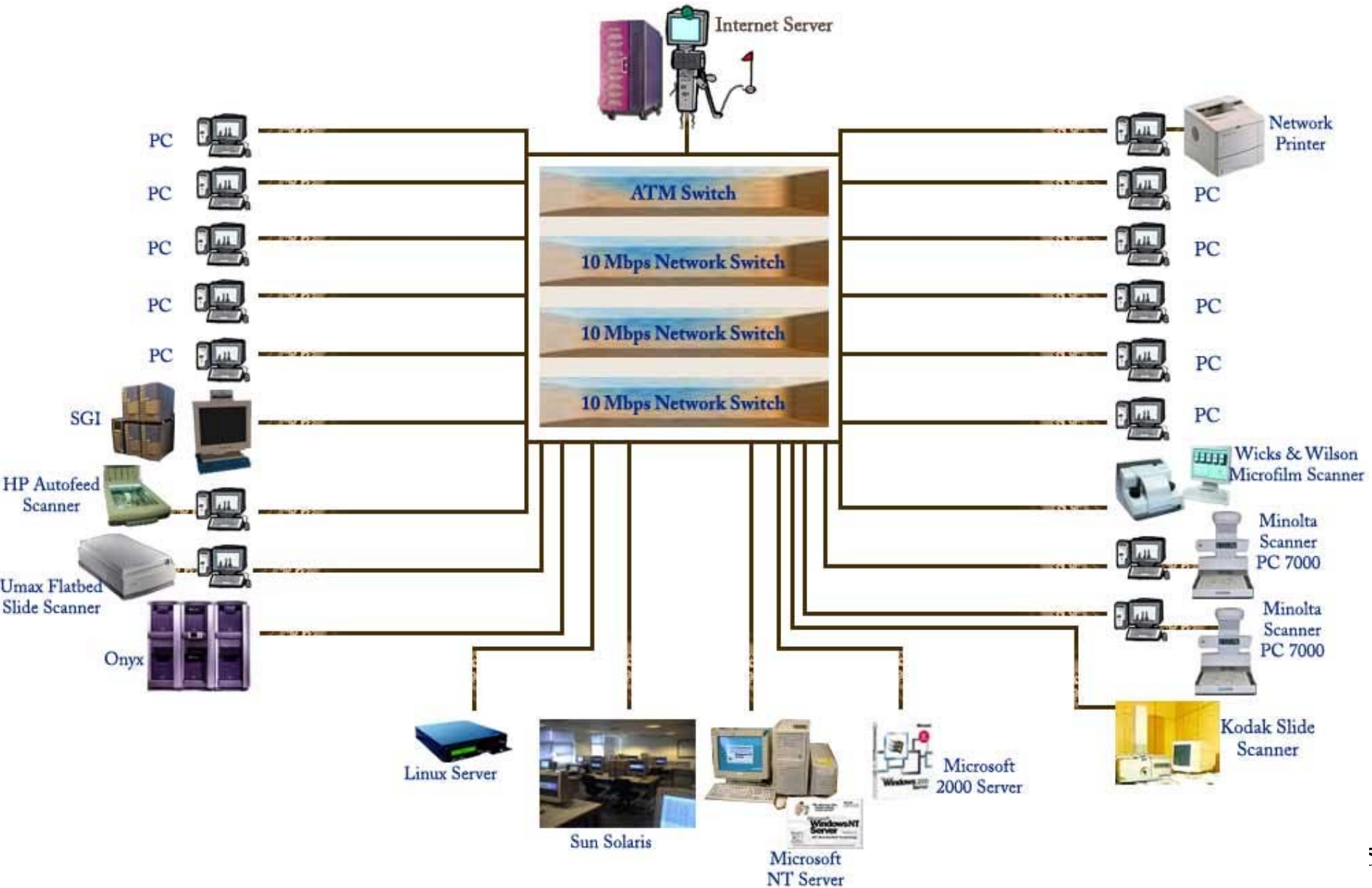Indira Gandhi National Centre for the Arts

सूत्रधारा

◆ The Sutra Dhara serve as the administrative, Managerial and organizational support and makes available services through appropriate inter-linkage amongst the various other component Divisions of the IGNCA. This Division serves as a nodal administrative Division and a central co-ordinator of programmes.

Asvattha

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Cultural Informatics Lab.

◆ The Cultural Informatics Laboratory (CIL) is engaged in Interactive-multimedia-documentation and in-depth analysis of cultural information. This demonstrate how cultural heritage can be recreated virtually, in holistic and integrated perception of culture.

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Infrastructure of Cultural Informatics Lab

Internet Server

PC

PC

PC

PC

PC

SGI

HP Autofeed Scanner

Umax Flatbed Slide Scanner

Onyx

ATM Switch

10 Mbps Network Switch

10 Mbps Network Switch

10 Mbps Network Switch

Network Printer

PC

PC

PC

PC

PC

Wicks & Wilson Microfilm Scanner

Minolta Scanner PC 7000

Minolta Scanner PC 7000

Kodak Slide Scanner

Linux Server

Sun Solaris

Microsoft NT Server

Microsoft 2000 Server

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Branches of Kala Nidhi

- Reference Library
- Cultural Archive
- Reprography Unit
- Slide Unit
- Photography Unit
- Conservation Unit
- Media Production Unit

Digital Library

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Reference Library

- The reference library of IGNCA has a large collection in the broad areas of humanities and the arts. It constitutes books, reprographics of several folios of unpublished Sanskrit, Pali, Persian and Arabic manuscripts in microfilm and microfiche, photographs and slides. The collection includes books on archaeology, philosophy, religion and ritual studies, history and anthropology, art and literatures as well as folk, pastoral and community studies. The library is enriched by many rare collections of illustrious scholars who have made path-breaking contributions in the fields of arts.

- Collection of about 175, 000 printed books, journals and other publications

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Cultural Archives

◆ Material related to different genres in the original and in the other forms of copies is collected, classified and catalogued in the **Cultural Archives**. The archives are enriched by personal collection, ethnographic collections documentation and cultural exchange. Many scholars, artists and art enthusiasts, over the last decades, have carefully and dedicatedly collected materials of their interest ranging from literature and personal histories, recitation, painting, music to folklore and tribal arts. Some of these rare collections of ethnography and audio/visual documentation of old masters and rare art forms have been acquired by the archives.

◆ About 200,000 collection of Photos, Glass plates, Negatives, artifacts, art objects, Audio, Video etc

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Reprography Unit

◆ A unique feature of the Reprography unit of the Kala Nidhi is the reprographic compilation of unpublished manuscripts in Indian and foreign collections from private and public libraries. A pioneering attempt has been made to bring under one roof primary sources of the Indian tradition lying scattered, fragmented, inaccessible or worse, in danger of extinction. At present the library contains more than ten millions folios of unpublished Sanskrit, Pali, Persian and Arabic manuscripts.

◆ Total 20,000 microfilm rolls (approx.) containing 2.5 lacs mss. have been generated so far.

◆ Digitization going on

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Slide Unit

◆ A concerted effort is being made to establish a large photograph and slide library. Here also the focus is on developing a resource centre where Documentation on Indian and Asian art is easily accessible.

◆ Collection of about 100,000 visuals

◆ All digitized

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Photography Unit

- ◆ Undertake the Still Photography work of all the divisions of the IGNCA
- ◆ Photo documentation work

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Conservation Unit

◆ The Unit caters to the conservation and preservation needs of works of arts housed in IGNCA

◆ Conducts awareness campaigns and training programmes.

◆ Also acts as a manuscript conservation centre of Delhi region for National Manuscript Mission.

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Media Production Unit

- Film Production

- Kalatarang Programme

- Documentation of various Arts e.g. performing arts, experiences and views of intellectuals, Folk Arts and dances etc.

- Media coverage and documentation of all the in-house programmes of IGNCA.

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ABIA INDEX Project at IGNCA

ABIA stands for Annual Bibliography of Indian Archaeology that was published by the Kern Institute in Leiden during 1926-73. In 1996, the International Institute for Asian Studies (IIAS), Leiden put forward a proposal to resume the bibliography. The new bibliography is called ABIA South and Southeast Asian Art and Archaeology Index, briefly ABIA Index.

The IIAS, Leiden initiated this International project to compile and maintain a bibliographic electronic online database which supplies annotated records, covering the subjects- pre and pro history, historical archaeology, ancient and modern art history, material culture, epigraphy and paleography, numismatics and sigillography. An Annotated Bibliography extracted from this database is published annually in a printed version in addition to CD-Rom Version of ABIA Index.

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ABIA Index - Journey

- 23 ABIA Index volumes were published by Kern Institute Leiden, the Netherlands during1926- 1973
- Work resumed by International Institute for Asian Studies (IIAS), Leiden, the Netherlands in1996 by naming it ABIA South and Southeast Asian Art and Archaeology Index – (ABIA Index) and First Volume was published in 1999 and Second Volume in 2002 (two parts)
- PGIAR , Srilanka is the coordinating office for 2002-2006 and Third Volume is expected in 2006
- IGNCA, India will be coordinating office from 2007-2012
- Malaysia, Nepal, Pakistan, Bhutan, Cambodia, Indonesia, and Bangladesh are other participating countries

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Digital Library initiatives at

Indira Gandhi National Centre for Arts (IGNCA)

- Kalasampada: Digital Library of Indian Cultural Heritage
  - The Pioneering Digital Treasure of Arts (http://www.ignca.nic.in)
  - Digital Images
  - Manuscripts in India
  - Multimedia Documentation
  - Video & Audio Recordings
  - Papers and Essays
  - Animations and Walk throughs
  - Research Reports
  - Databases; Conference Proceedings
  - Developed own digital library software
  - Also planning to install Dspace

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National Mission for Manuscripts
(http://namami.nic.in/

◆ To save the most valuable (but less visible) cultural inheritances

• **Indian Manuscripts**

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National Mission for Manuscripts
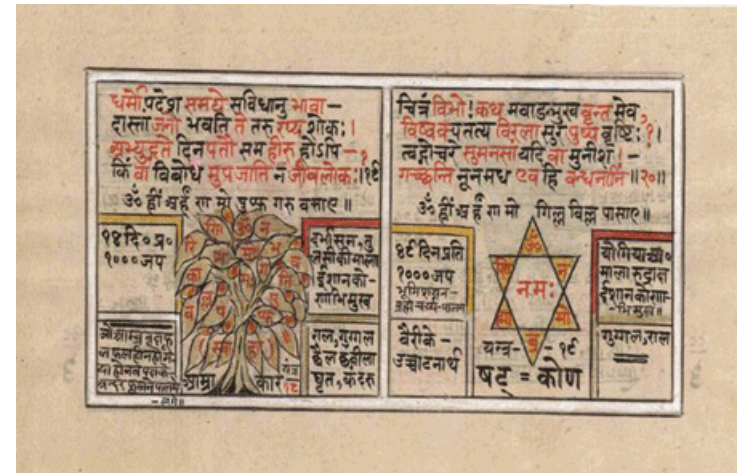
राष्ट्रीय पाण्डुलिपि मिशन
|| विज्ञानमृग्राव्य ||
National Mission for Manuscripts

A Mission to reclaim the invaluable heritage of India preserved in manuscripts

Related Sites | Contact | Guestbook | Home

| Discussion | Events NEW | Photogallery | Contributor NEW | Faq | Notices | Members NEW |

Background

- Background
- Objectives
- Strategies
- National Nodal Agency
- Manuscript Resource Centres
- Manuscript Conservation Centres
- National Electronic Register
- Catalogus Catalolorum
- Mission Structure
- Mission Management
- Performance Summary
- Activities (Current & Planned)
- Time Frame
- Annual Report
- Digitization

Background: Why a Mission for Manuscripts?

India is the repository of an astounding wealth of ancient knowledge belonging to different periods of history, going back to thousands of years. Most of this knowledge belonging to different areas of intellectual activity such as religion, philosophy, systems of science, arts and literature is preserved in the form of manuscripts. Composed in different Indian languages and scripts, they are preserved in materials such as birch bark, palm leaf, cloth, wood, stone and paper.

India has the largest collection of manuscripts in the world. They are spread all over the country and also abroad in different libraries, academic institutions, museums, temples and monasteries and in private collections. The rich manuscript wealth of India today faces a threat of survival. However, India has possibly lost a vast amount of this wealth. Sufficient information on them is not available today. Among the existing collection, most of them are in a state of decay and damage. Among the extant collection, only a very small portion has been surveyed and documented properly. Experts fear that almost all the palm leaf manuscripts will perish in the near future due to decay, and wear and tear. The invaluable heritage of India in the form of manuscripts has to be documented, preserved and made accessible to us and to succeeding generations.

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National Mission for Manuscripts

- India has the largest collection of manuscripts in the world (5 million Approximately).

- India is the repository of an astounding wealth of ancient knowledge belonging to different periods of history, going back to thousands of years. Most of this knowledge belonging to different areas of intellectual activity such as religion, philosophy, science, arts and literature is preserved in the form of manuscripts. Composed in different Indian languages and scripts, they are preserved in materials such as birch bark, palm leaf, cloth, wood, stone and paper.

- National Manuscript Mission was launched five-year programme in Feb., 2003 by the Ministry of Human Resource Development, Govt. of India to get all the manuscripts and conserve them.

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National Mission for Manuscripts
Save Our Manuscript Wealth for India's Future

National Mission for Manuscripts

FAQs | About Us | Objectives | Strategies | Interact | Photo Gallery | DataBase

Manuscripts digitized from:

- Cloth
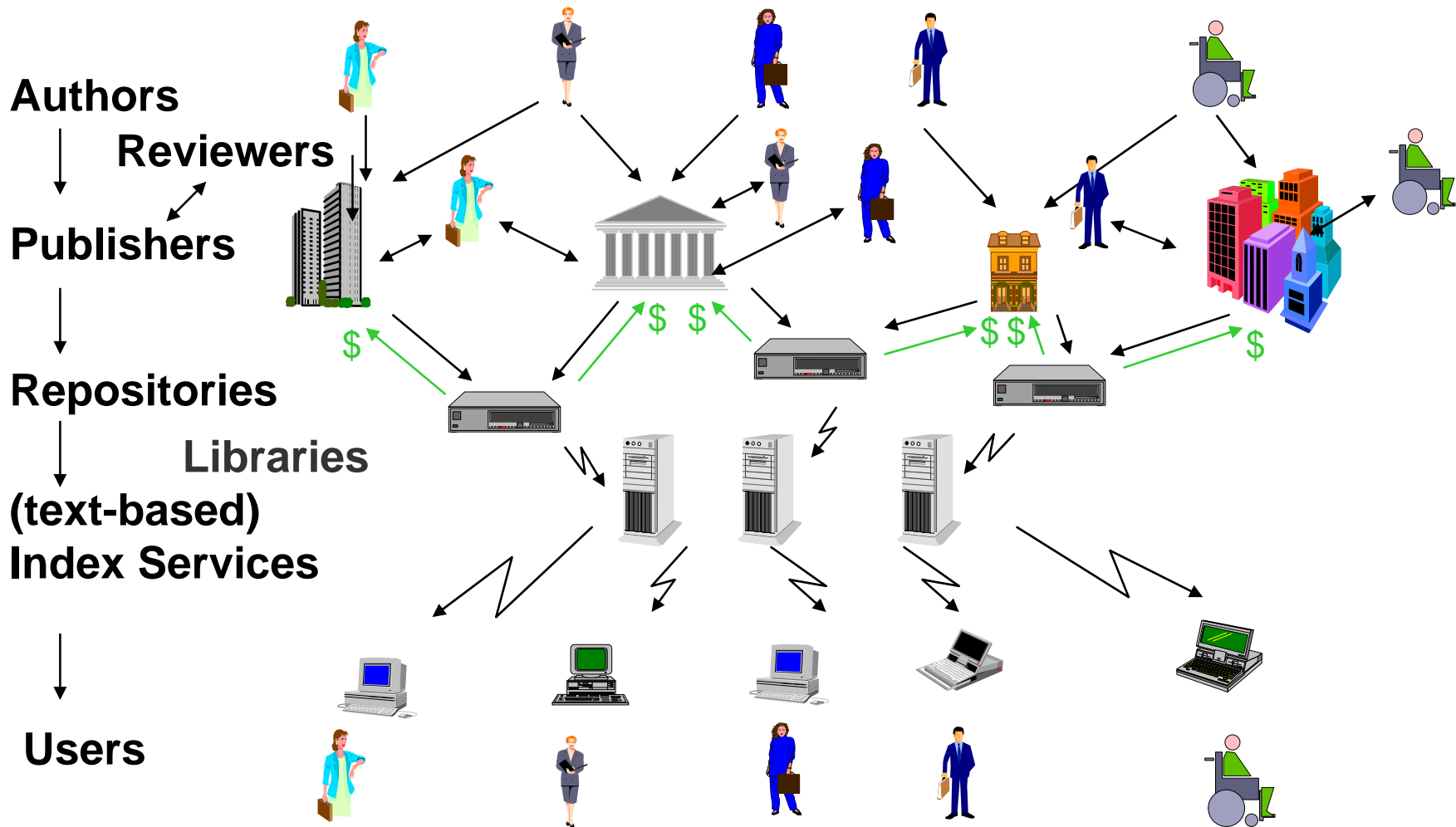- Paper
- Bamboo Leaves
- Photogallery

Palm Leaf

Home

Digital libraries are organizations that provide the resources, including the specialized staff, to select, structure, offer intellectual access to, interpret, distribute, preserve the integrity of, and ensure the persistence over time of collections of digital works so that they are readily and economically available for use by a defined community or set of communities."

- Donald Waters

Current Model of scholarly publications

Authors

Reviewers

Publishers

Libraries

Users

Authors

   Reviewers

Publishers

Repositories

   Libraries

(text-based)
Index Services

   Users
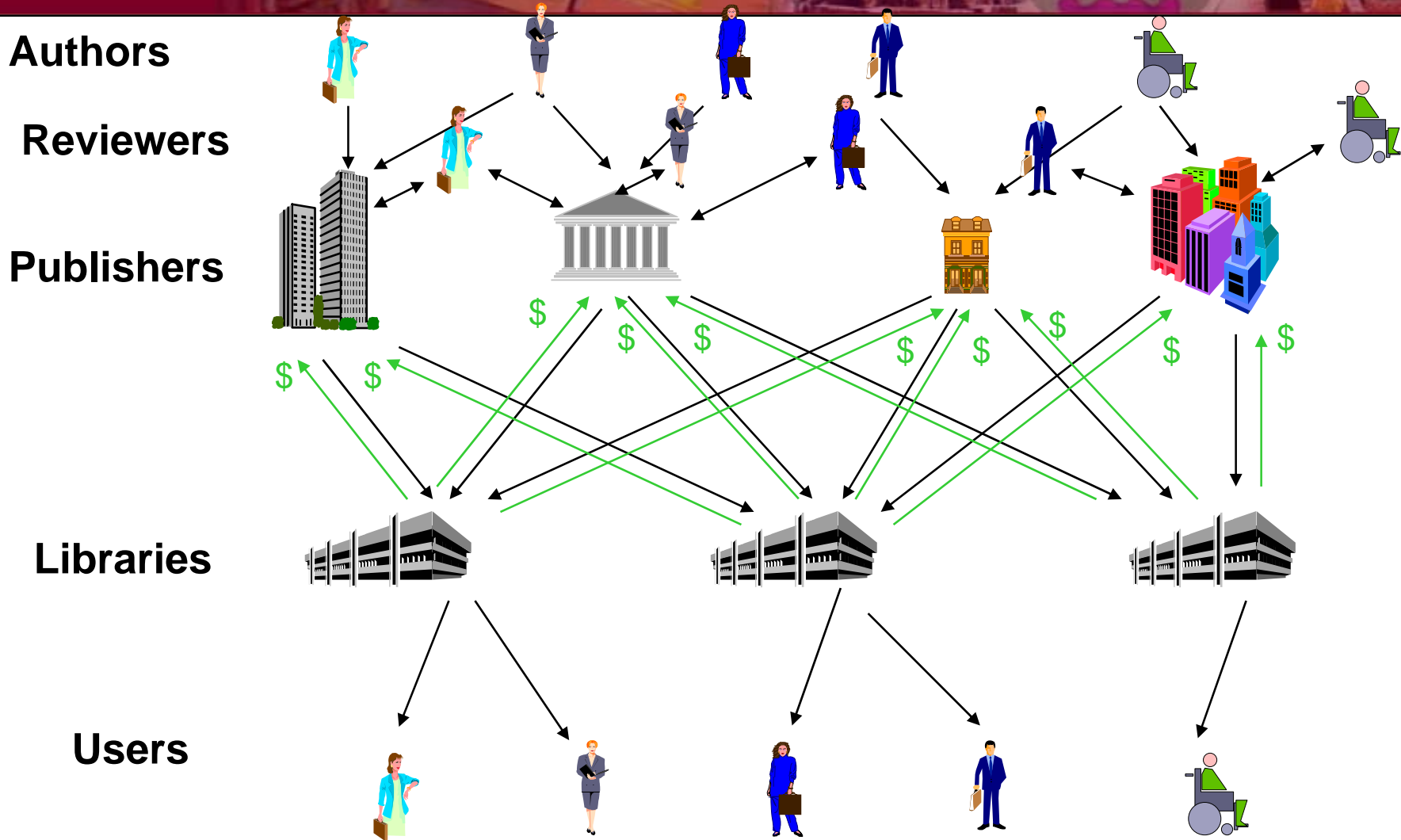
Scholarly Publications in Electronic Environment in a Fully Distributed Model

Authors/ Reviewers Commentators/ Users

$?

Text, image, video, spatial, etc., access services

Repository services

New services

Dissemination services

Collaboration "services"
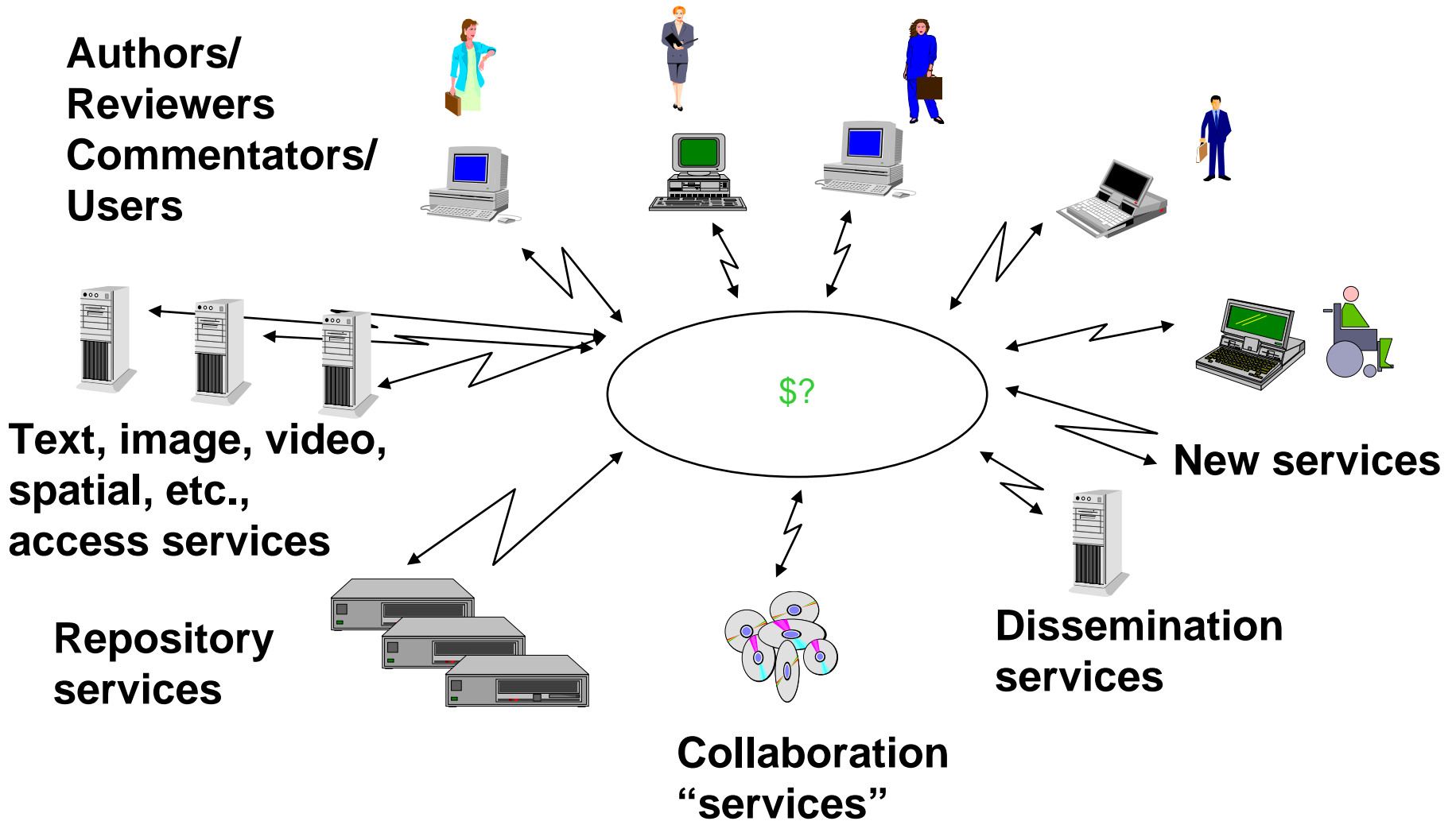
Challenges

- Building digital collections of national importance from existing texts, documents, images . . .
- Creating new digital documents & linking them
- Selecting open source digital resources & creating & maintaining linkages (Subject portals)
- Developing / adapting management tools for digital collections
- Providing access to digital collections
- Integrating digital & other library collections
  - incl. integration of OPACs & library management tools
- Establishing services for digital libraries
  - online access & offline support
  - education & training of users and librarians
- Addressing social, legal, policy issues
- Outsourcing digitization and services

DL and Open Access / Public Domain Publishing (OAP)

- Provision of free online access to quality 'public domain' and 'Open access' scholarly material
- Enabling factors:
    - Global movement and initiatives for open access:
        - Open Access Initiative (OAI)
        - Budapest Open Access Initiative BOAI)
        - Scholarly Publishing & Resources Coalition (SPARC)
        - Open Access News (Formerly FOS)
    - OAI-complaint digital repository software (Dspace, E-print Archives, CDS Ware, Fedora, etc.)
    - Protocols for metadata and interoperability (DC & OAI-PMH)

- **'open access' means free availability of scholarly material on the public internet, permitting any users to read, download, copy, distribute, print, search, or link to the full texts of these articles, crawl them for indexing, pass them as data to software, or use them for any other lawful purpose, without financial, legal, or technical barriers other than those inseparable from gaining access to the internet itself. The only constraint on reproduction and distribution, and the only role for copyright in this domain, should be to give authors control over the integrity of their work and the right to be properly acknowledged and cited."**

- Protect Intellectual Property
- Remove price barriers (subscriptions, licensing fees, pay-per-view fees)
- Remove permission barriers (copyright and licensing restrictions)
- Improved visibility
- Smooth flow of information
- Improved collaboration: global platform for local research
- Improved economy
- Conserve fragile / precious originals and provide access to digital surrogates
- Integration of different media

Potential of Public Domain / Open Access Digital Library [1]

- Large number non-commercial R&D institutions in India
    - 2,900 (R&D Directory, NSTMIS, DST, 2001)
    - Academic institutions:
        - Universities (graduate, research): 310
            - Teachers in University: 72,543 (2002-03)
        - Colleges: 15,437 (as on 1/1/2002)
        - Total Number of Teachers: ~ 4,00,000 +
    - Total Enrolment - 2001-2002 (for regular courses)
        - Researchers: 60,516
        - Post-Graduates: 8,16,335
        - Graduates: 78,62,588
        - Diploma / Certificate: 81,656

- Total Indian Journals   :   12,000
- Technical Reports   :   8,236 / year
- Theses and Dissertations   :   11,451 / year
- Research Papers   :   19,572 / year

- Patents: Applications File   Patents Granted   Patents In-force

Applications File	Patents Granted	Patents In-force
8,387	1,318	8,025

- Conferences   :   800 –1000 / year
- Standards   :   17,600

- Books   :   904 / year
- Total No. of Books
  (Published in India Till 2001)   :   49,553

- **R&D labs under govt. science agencies**
  - **Industrial research (CSIR)**
  - **Defense research (DRDO)**
  - **Agricultural research (ICAR)**
  - **Medical research (ICMR)**
  - **Biotechnology (DBT)**
  - **Environment (Deptt. of Environment & Forestry)**
  - **S&T (DST)**
  - **IT (MIT)**
  - **Space (Deptt. of Space)**
  - **Energy (Deptt. Of Non-conventional Energy Resources)**
  - **Ocean Development (Dept. of Ocean Development)**
  - Various departments in Universities in India
- Other organizations both funded by government and non-government agencies

- About 50 billion Rupees is being spent annually on research and development in our country.

- The third largest scientific and technical manpower in the World, accounts for 3% of the world's publication output.

- It is estimated that there are 3,000-4,000 active scientists in India working in about 200 laboratories

- Number of S&T personnel has been increasing @6% / year*

  *Pursuit and Promotion of Science: The Indian Experience. Indian National Science Academy, New Delhi (p74). 2001.

Archeological Survey of India (1861) – Ministry of Culture

Activities:

* Maintenance, Conservation & Preservation of
  centrally protected monuments and sites and
  related research

  *   Protecting 3606 monuments of National
      importance

* Two year postgraduate diploma course

Other institutions

- **Anthropological Survey of India**

  - The People of India, Tribal India: Dynamics and Social Change, Agrarian System and Agrarian Laws in Tribal India, Study of Folk Tradition,

- National Museum, India
- CSO
- Planning Commission
- Department of Biotechnology

Digital Library Support in India

- Ministry of Human Resource Development (MHRD)

- Department of Scientific & Industrial Research (DSIR-TRP)

- All India Council for Technical Education (AICTE)

- Ministry of Communication & Information Technology (MIT)

- University Grants Commission (UGC)

- Department of Culture, Government of India

- Respective organizations under which concerned library exist

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Some Examples

- **Scholarly Science Journals**

- **Theses & Dissertations**

- **Institutional E-Print Archives**

- **Books (out of copyright)**

- **Data**

- **Manuscripts**

- **Newspapers**

- **Online Courseware**

- **Open Access at Metadata Level**

- **Portal and Gateway Services**

Scholarly Science e-Journals from India

Available free

Scholarly Science Journals from IAS

- Indian Academy of Sciences (IAS)
  - Established: 1934
  - Organizes meetings, discussions, seminars, symposia and publishes 11 journals.
  - All journals web accessible
  - Digitization of issues right from the first volume is under way
  - http://www.ias.ac.in/

Scholarly Science Journals from IAS [2]

- IAS Journals available online:
  - Proceedings of the Indian Academy of Sciences - Chemical Sciences (www.ias.ac.in/chemsci)
  - Proceedings of the Indian Academy of Sciences - Mathematical Sciences (www.ias.ac.in/mathsci)
  - Proceedings of the Indian Academy of Sciences - Earth and Planetary Sciences (www.ias.ac.in/epsci)
  - Sadhana (Academy Proceedings in Engineering Sciences) (www.ias.ac.in/sadhana)
  - Pramana - Journal of Physics   (www.ias.ac.in/pramana)
  - Journal of Biosciences   (www.ias.ac.in/jbiosci)
  - Bulletin of Materials Science   (www.ias.ac.in/matersci)
  - Journal of Astrophysics and Astronomy   (www.ias.ac.in/jaa)
  - Journal of Genetics   (www.ias.ac.in/jgenet)
  - Resonance - Journal of Science Education   (www.ias.ac.in/resonance)
  - Current Science   (www.ias.ac.in/currsci)

Publications

Journals

	Name of journal	No. of issues a year	Volume number in 2004	E-mail address
1	Journal of Chemical Sciences	6	116	chemsci@ias.ernet.in
2	Proceedings - Mathematical Sciences	4	114	mathsci@ias.ernet.in
3	Proceedings - Earth and Planetary Sciences	4	113	epsci@ias.ernet.in
4	Sadhana (Academy proceedings in engineering sciences)	6	29	sadhana@ias.ernet.in
5	Pramana - Journal of Physics	12	62, 63	pramana@ias.ernet.in
6	Journal of Biosciences	4	29	jbiosci@ias.ernet.in
7	Bulletin of Materials Science	6	27	matersci@ias.ernet.in
8	Journal of Astrophysics and Astronomy	4	25	jaa@ias.ernet.in
9	Journal of Genetics	3	83	jgenet@ias.ernet.in
10	Resonance - Journal of Science Education	12	9	resonanc@ias.ernet.in
11	Current Science (published by the Current Science Association in collaboration with the Academy)	24	86, 87	currsci@ias.ernet.in

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http://www.ias.ac.in/

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Scholarly Science Journals from INSA

- Indian National Science Academy (INSA)
  - Established: 1935
  - Publish journals, organize scientific discussions and bring out proceedings and monographs
  - DSIR supported project for digitizing and web hosting of INSA journals:
    - Indian Journal of Pure & Applied Mathematics
    - Proceedings of INSA A Physical Sciences
    - Proceedings of INSA B Biological Sciences
    - Indian Journal of History of Science
  - http://www.insa.ac.in/

SA with relevant details.

Search: [   ] ⟫   Search Help

Our Publications

- *Indian Journal of Pure & Applied Mathematics*
- *Proceedings of INSA - Part A (Physical Sciences)*
- *Proceedings of INSA - Part B (Biological Sciences)*
- *Indian Journal of History of Science*

http://www.insa.ac.in/

The publication activities of INSA have the roots to the depth of Academy's foundation in 1935 as being one of the key activities of the Academy. The activities encompass publication of three leading journals namely the Proceedings of the Indian National Science Academy Part A devoted to Physical Sciences and Part B devoted to Biological Sciences, the Indian Journal of Pure and Applied Mathematics (IJPAM) and the Indian Journal of History of Science (IJHS). In addition, the Academy publishes its Year Book, Annual Report, INSA News, Compendium of Fellows and Biographical Memoirs of deceased Fellows from time to time, Special Publications and INSA Seminars/Symposia proceedings in a regular way. The Academy has constituted a Publication Advisory Board (PAB) for rendering valuable guidance for strengthening the publication activities.

Publication Advisory Board (2004)

M S Valiathan (Manipal) President, INSA-Chairperson, S Prasad (New Delhi), I P Abrol (Delhi), R Gadagkar(Bangalore), S K Sopory (Delhi), R Rajaraman (Delhi), V Ramamurti (Chennai), V Kannan (Hyderabad), N Sathyamurthy (Kanpur), R Narasimha (Bangalore), K Muralidhar (Delhi)

Indian Journal of Pure & Applied Mathematics   ISSN 0019- 5588

The Academy published Mathematics and related research articles initially in the Proceedings of INSA, but considering the large increase in the influx of mathematical articles, the need for bringing out a separate journal in this field was felt, as a result of which the Indian Journal of Pure & Applied Mathematics (IJPAM) came into being in January 1970. The journal was quarterly in the beginning but had to be later changed over to a bimonthly one. As the publishing of the journal could not be kept abreast with the tremendous growth in the number of articles, its periodicity had to be revised further by changing it to a monthly publication from 1973. IJPAM publishes papers of original research in the areas of Pure and Applied Mathematics, Statistics and related mathematical sciences such as Operation Research, Game Theory, Mathematical Economics, Computer Science, Stochastic Modelling, Numerical Analysis, Pattern Recognition, Mathematical Systems. The Editor might also invite papers on special topics, which are of current interest. However, all papers are refereed whether invited or contributed. The authors are encouraged to contribute and prepare their manuscript as per INSA guidelines. The size of the journal has been changed to Demi Quarto A4 International since January 1998.

The journal is indexed in the Science Citation Index: Current Contents; Mathematical Reviews; INSPEC Science Abstracts (Part A); Zentralblatt fur Mathematic and all the major abstracting services of the world.

Editor (2004)

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- NISCAIR http://www.niscair.res.in

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Open Index Initiative at IGIDR: A cooperative effort to develop online database consisting of index with abstracts journal articles, book reviews and conference papers published in Indian social science journals

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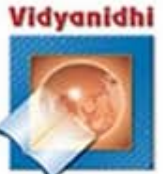
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Metadata

Vidyanidhi (meaning 'Treasure of Knowledge' in Sanskrit) is a Digital Library Initiative currently underway at the Department of Library and Information Science, University of Mysore, India. This initiative is sponsored by NISSAT, DSIR Government of India

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January 29, 2006

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- Physical Research Laboratory, Ahmedabad
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Institutional E-Print Archives

Open Access Initiatives

- eprints@iisc
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  - Online digital repository of IISc research papers
  - Research papers (preprints, post-prints), book chapters, tech reports, unpublished findings, conf papers, magazine articles
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- **Goal: Free-to-read, searchable collection of one million books (out-of-copyright)**
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SCL, Hyderabad	6475	2280460	2.3
AKCE, Tamilnadu	6392	970017	0.95
Salarjung Museum, Hyderabad	6128	2339384	2.34
IIIT, Allahabad	5536	1089407	1.1
Osmania University, Hyderabad	5331	1867927	1.9
Rashtrapati Bhavan , Delhi	4832	2023364	2.0
IISc, Bangalore	3323	1242060	1.2
SASTRA, Tamilnadu	1849	568017	0.57
Pune University	1021	279418	0.28
IIAP, Bangalore	961	343447	0.33
Sringeri , Karnataka	630	196302	0.2
ASR, Melkote, Karnataka	529	175393	0.2
SVORI , Tirupati	495	191224	0.2
Others	351	15724	0.016
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  - Demo of Multi-lingual Documents
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▶ **CNR Bologna Research Library, Italy** (8 records)

▶ **D-Lib Magazine** (319 records)

▶ **DLIST, University of Arizona, USA** (423 records)

▶ **E-LIS: E-Prints in Library and Information Science** (2409 records)

▶ **LDL: Librarians' Digital Library, DRTC, India** (182 records)

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Other Digital Initiatives in India

- **Traditional Knowledge Digital Library (TKDL)**

    - **http://203.200.90.71/IndiaTkdl/index.asp**

    - **Focus on preservation of community knowledge resources for posterity**

    - **To give legitimacy to the existing traditional knowledge and enable protection of such information from getting patented from India's traditional knowledge systems**

    - **Joint Venture of National Institute of Science Communication and Information Resources (NISCAIR) and Department of Indian Systems of Medicine and Homeopathy (ISM&H)**

    - **Documentation of this existing knowledge to be made available in public domain, on various traditional systems of medicine**

Other Major Digital Library Initiatives.[2]

- **National Health Information Collaboration (NHIC)**
  - **WHO/ ICMR project - Heath InterNetwork India**
  - **Portal for Indian health data and information**
  - **Free open source software under development**
- **URDIP: CSIR Unit for Research & Development for Information Products**
  - **Open access to Indian patents and medicinal plants**
- **Central Secretariat Library**
  - **Major Project - Gazette of India (post independence only; pre-independence in microfilm format with British Library, London)**
  - **Annual Reports**

- **Khuda Baksh Oriental Library**

  – **Activities being initiated to archive valuable centuries old special collection**

  – **Manuscripts – Around 4 Lakh pages**

- **National Library, Kolkata**

  – **Activities initiated to archive valuable special collection and brittle books**

  – **Scanning and archiving of rare English books and documents published before 1900 and Indian publications of pre 1920 are considered for digitization.**

  – **Pilot Project – 6600 selected books in Indian and English languages have already been scanned and stored on CDs (total of over 25,00,000 pages) www.nlindia.org**

- Digitization of Records of Fellow of INSA (INSA)
    - Special Collection archived by the INSA library
    - Archived in print format since last over six decades
    - Digitization - initiated in 1998-99
    - Full-text Data stored in TIFF (compressed) with database containing adequate search parameters

- Nalanda Digital Library at NIT Calicut

  - E-books

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  - E-theses

- Digitization of Debates of Parliaments of India

  - All debates, questions, committee reports, biodata of present and past MPs including photographs and addresses, etc. have been digitized and available on the Web
    http://parliamentofIndian.nic.in/

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- ➢ More than 20 million pilgrims visiting the temple every year
- ➢ Annual budget is around INR 7000 millionsAround 13,000 employees are working in this Organization
- ➢ **40,000 old books aged up to 200 years in different Indian Languages and manuscripts of Indian culture, heritage and history.**
- ➢ **20,000 bundles of Palm leave manuscripts. Each bundle contains around 500 palm leaves, aging around 400 to 500 years.**
- ➢ **Poorna Prajan Vidya Peetha, Bangalore, a centre, contains about 15,000 books relating to the Hindu Religion and Philosophy**

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Language	No. of Books Scanned	No. of Pages scanned
SANSKRIT	1,918	7,06,139
TELUGU	1,588	4,14,939
HINDI	336	24,320
TAMIL	586	1,02,196
KANNADA	1,242	3,68,335
URDU	3	826
MULTI	919	3,55,101
ENGLISH	3,515	1,59,474
Total	**10,216**	**39,31,330**

Kautilya

Kautilya Digital Repository at IGIDR >

Kautilya @ IGIDR [Beta Version]

Welcome to our digital repository of conference proceedings, thesis and dissertations and research articles, etc hosted at Indira Gandhi Institute of Development Research, Mumbai, India

Search

Enter keywords in the box below to search Kautilya@IGIDR

Search Kautilya:

Go

Advanced Search

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Communities & Collections

Titles

Authors

February 4, 2006

Other Initiatives

MyLibrary@IGIDR [On Intranet]

Open Index Initiative

Union Catalogue

Kautilya - Digital repository for IGIDR's publications mainly conference proceedings, thesis (abstracts) and dissertations and working papers etc.

2/15/2006

Max Mueller Bhawan, New Delhi

Indira Gandhi National Centre for the Arts

90

Archives of Indian Labour V.V. Giri National Labour Institute

Heritage of Indian Working Class

- **Commissions on Labour**

- **Oral History Collections**

- **Trade Union Collections**

- **Regional Collections**

- **Strike Collections**

- **Powered by Green Stone Digital**

Library *http://www.indialabourarchives.org/*

Max Mueller Bhawan, New Delhi
Indira Gandhi National Centre for the Arts
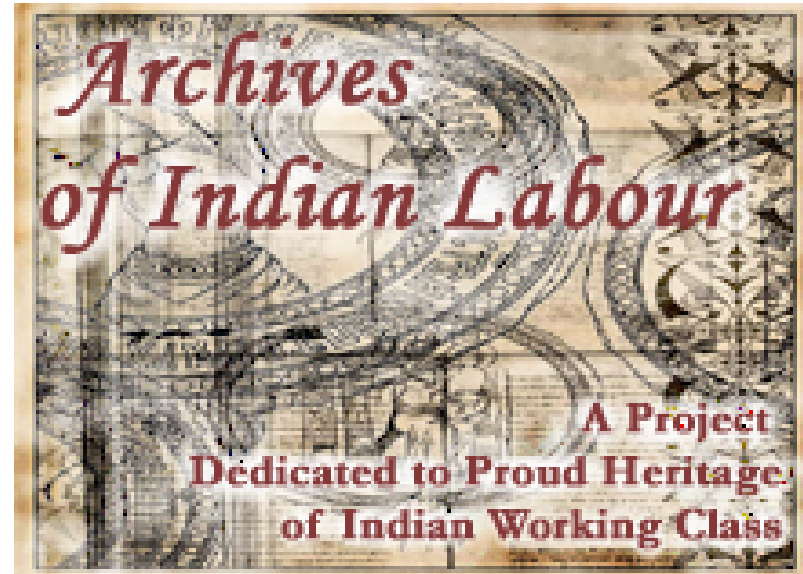
Government Publications/Information

- Now a days most of the public documents are available on respective Ministry / Department website in pdf format.
- Digitization of various old records at both state level as well as at centre level either going on or being planned.
- Other Developments
  - Information Technology Act
  - Right to Information Act

Business & Other Information

- Most of the good business organizations are having their websites
- Most of the Banks are online
- Airlines and Railway- online
- E-commerce
- Plastic Money
- Tours & Travels
- Internet@home
- Telephone available even in rural areas
- Education related information available online

Some Gateway services for open access resources in India

- SciGate: Science Information Portal (IISc)

- AeroInfo: Aerospace Virtual Library (NAL)

- Biotech Portal @ IIT Delhi

- Library Portal @ IIT Kharagpur

Newspapers

- **Times of India –English daily(epaper): http://epaperdaily.timesofindia.com/**

  - **Complete News paper with all city additions**
  - **Current + 6 days**
  - **Plans to charge Rs. 50 per month and Rs 5000 per month for archives in Pdf**

- **Other newspapers with e-archives include: Hindustan Times, Hindu, Indian Express, Anand Bazar Patrika, Enadu, etc.**

Data

- National Chemical Laboratory (NCL)
  - National Collection of Industrial Microorganisms (NCIM)
    - Culture collection of around 3700 strains of algae, bacteria, fungi and yeast
    - Free access to all related data
    - http://www.ncl-india.org/ncim/
- National Centre for Biodiversity Informatics
  - Indian biodiversity informatics
  - http://www.ncbi.org.in

Digital Learning Environment

Max Mueller Bhawan, New Delhi
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Online Courseware

- National Programme on Technology Enhanced Learning (NPTEL) (http://www.nptel.iitm.ernet.in/) MHRD-sponsored programme Executed by all IITs & IISc

- Aimed at developing curriculum-based video and web courses (at least 200)

- Several web-based courses already available from web-sites of participating institutions

- Online Courseware Directory in IT at IIT Delhi (Ministry of Information Technology-sponsored Project)

National Programme on Technology Enhanced Learning

NPTEL

Funded by the Ministry of Human Resource Development (MHRD), Government of India

Home | Objective | Activities | Courses | Downloads | Events | Members | Contact us

This site is best viewed in 1024x768 resolution

Joint Venture by Seven Indian Institutes of Technology(IITs) and Indian Institute of Science (IISc)

Introduction

IISc Bangalore

IIT Kharagpur

IIT Bombay

IIT Delhi

IIT Guwahati

IIT Kanpur

IIT Madras

IIT Roorkee

The main objective of NPTEL program is to enhance the quality of engineering education in the country by developing curriculum based video and web courses. This is being carried out by IITs (Seven), IISC Bangalore and other premier institutions through a collaborative effort. At IIT Madras, the project is evolving and it is our intent to provide learning materials, digitally taped classroom lectures, supplementary materials and links to state-of-the art research materials in every subject possible. Currently samples from approximately 70 courses offered by faculty in various departments and to students at all levels (B.Tech, M.Tech, M.S., M.Sc., Ph.D.) are given here. Approximately 140 courses are in various stages of preparation and distribution using the Internet.

All the faculty members are personally involved in the making of their respective courses in the electronic form. Our purpose is to supplement classroom lectures. The latter are compulsory for students and IIT Madras stipulates that students attend 75 percent of lectures to qualify for their examinations.

Download the Project Implementation Plan(PDF format)   Get Adobe Acrobat® Reader®

- Science Channel
  - EDUSAT – facilitating Science Communication
  - Demystifying & popularizing science
  - Outreach the benefits from scientific knowledge and application to the people of India

Bits-Pilani Virtual University

(http://vu.bits-pilani.ac.in/)

Education Grid
(http://www.edugrid.ac.in/webfolder/g/default.htm)

To provide quality education to all students independent of geography

Digital Initiatives

Through Library Consortia

The INDEST Consortium

- The INDEST Consortium is the most ambitious initiative taken so far in the country.

- Head quarter at IIT Delhi. The Ministry of Human Resource Development (MHRD) provides funds to access to various electronic resources subscribed by the Consortium for 38 core member institutions.

- The other individual members pay the membership.

- All electronic resources being subscribed are available from the publisher's Website.

- The benefit of consortia-based subscription to electronic resources is not confined to 38 major technological institutions in the country but is also extended to all AICTE-accredited and UGC-affiliated institutions.

- Highly discounted rates of subscription and better terms of agreement with the publishers
- Electronic resources are not confined to 38 major technological institutions in the country but is also extended to all AICTE-accredited and UGC-affiliated institutions

Content Selection

Electronic resources
ABI / Inform Complete
ACM Digital Library
ASCE Journals
ASME Journals (+ A M R)
ASTM Standartds and Journals
Capitaline
CRIS INFAC Ind. Information
EBSCO Databases
Elsevier's Science Direct
Emerald Full-text
Euromonitor (GMID)
IEEE / IEE Electronic Library Online (IEL)
Indian Standards
INSIGHT
Nature
ProQuest Science (formerly ASTP)
Springer Link

Bibliographic Databases
COMPENDEX on EI Village
INSPEC on EI Village
J-Gate Custom Content for Consortia (JCCC)
MathSciNet
SciFinder Scholar
Web of Science

INDEST consortium

Indian National Digital Library in
Engineering Sciences & Technology

Networking People and Resources

- about
- members
- e-resources
- user guide/help
- troubleshooting
- how to join?
- operation
- search
- jccc@indest
- e-RAMS
- faqs
- downloads
- contact us

Sun, Jan 29, 2006

Welcome to
INDEST Consortium
Website

enable access
e-resources
at highly discounted rate

INDEST

desktop access
24 hours a day, 7 days a week

better management of resources

Come, be a member.... join

An Initiative by

Ministry of Human Resource Development
M H R D, Govt. of India

Members Login for Usage Statistics

JOIN **mailing list**
INDEST consortium

INFOVISION 2005

Done

UGC-Infonet
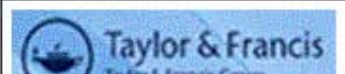
- **4000 full text** scholarly electronic journals from **25 publishers** across the globe can be accessed

- **100 Universities** out of 171 Indian Universities, has come under the purview

- Encompassing all areas of learning ...
  - Arts, Humanities, Social Sciences, Physical and Chemical Sciences, Life Sciences, Computer Sciences, Mathematics and Statistics etc. and also
  - other subject areas are to be added in near future

http://unicat.inflibnet.ac.in/econ/mindex.htm

inflibnet - Google Search | INFLIBNET Centre | INFLIBNET's Union Catalogue | :::Welcome to INFLIBNET Centre ...

UGC INFONET E-JOURNALS CONSORTIUM

A Gateway to Scholarly Information

Home

About E-Consortia

Resources

Subjects

Journals

Open Access Journals

List of Universities

Usage Statistics

Bandwidth Utilized

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Tutorials

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Library Networking & Resource Sharing

Max Mueller Bhawan, New Delhi
Indira Gandhi National Centre for the Arts

INFLIBNET

(http://www.inflibnet.ac.in/)

- Information and Library Network (Inflibnet)
  - A gateway to India's Academic & Research Community
  - 171 participating university libraries
  - creating **infrastructure** for sharing of library and information resources and services among Academic and Research Institutions
  - Resource sharing network of Indian universities – UGC programme
  - Databases – P.D. theses, experts, R&D projects…
  - http://www.inflibnet.ac.in/
  -

INFLIBNET

Information and Library Network Centre
(An IUC of UGC)

INFLIBNET's National Online Union Catalogue of Doctoral Theses

Books

Serials

Theses

Participating Universities

Theses Database
1 Andhra University 216049
2 Assam University 2270
3 Avinashlingam Inst.for Home Science 46281
4 Banasthali Vidyapith 56586
5 Bangalore University 70603
6 Goa University 95205
7 Gandhigram Rural Institute 25145
8 Gulbarga University 50712
9 Dr. Babas Amb Mar.Univ-Aurangabad 34909
10 Maharaja Sayajirao University 50793
11 Mohanlal Sukhadia University 65102

We are updating this Statistics..

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Select the Field:	Title / Subject [Keyword] / Creator [Researcher] / Contributor [Guide] / Date [Year of Award] / Degree Discipline [Department]	
Enter the TERM to Search:		
No of Records:	10 per page ▼ **Database Status**	
	Click to Search Reset	

This union database covers the bibliographic **Metadata** of Doctoral Theses submitted to more than 130 Universities/Institutes in India. It has over 1,53,206 unique records from all subject areas. This Data is contributed by participating Universities and we have collected more data from various reliable sources, university announcements etc.

If the record of your Ph D is not available in this database, you are requested to send us a copy of your award letter from the concerned Universities. INFLIBNET as an IUC of UGC, request all research scholars and faculty members of Indian Universities and Librarians to contribute the Doctoral Theses information to us.

Metadata Elements	Brief Help
Title	-- Enter all or initial part of title, starting with the first word: **e.g. Study of corrosion** - Drop initial articles (a, an, the) - *Truncation is automatic*
Subject [Keyword]	- Enter standard subject heading, name, or term: **PHYSICS** - *Truncation is automatic*
Creator [Researcher]	- Enter surname or first name, **e.g. Gohel** or **Umesh**
Contributor(s) [Guide(s)]	- Enter surname or first name, **e.g. Salgar** or **Satish**
Degree Grantor [University]	- Enter university name, **e.g. Gujarat University** - Start with the left-most word: - *Truncation is automatic.*
Degree Discipline [Department]	- Enter department or faculty name, **e.g. Department of Computer Science**
Date [Year of Award]	- Enter the year of Ph D awarded, **e.g. 2001**
Other Elements	Brief Help
Keyword in Title	-- Enter a keyword in title, **e.g. corrosion**

- • National Informatics Centre (NIC)
  - –INDMED – Bibliographic database of Indian biomedical literature – 75 Indian journals
  - – http://indmed.nic.in/

IndMED
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CD-ROM Databases
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NIC

IndMED

Indian Medlars Centre

A Centre jointly setup by NIC and ICMR to cater to the information needs of medical community of India.

IndMED: A Bibliographic database of Indian biomedical journals.

Search **IndMED** [   ]

--HELP: Use Boolean Operators in your query.
--Know about Full Text Icons displayed in references.

medIND: Fulltext of 28 Journals Indexed in IndMED.

MetaMED: - A meta-search tool to search IndMED and PubMed with single click. [BETA Version]

Union Catalogue: A database containing journal holdings of major medical libraries of India.

Other Links: Other important Services and Resources.

POLICY: This is a non-commercial web-site funded by Govt. of India. No advertisements are posted here. The personal information of the site visitors is not disclosed.
DISCLAIMER: Please note that this site also provides external links to the websites/webpages of biomedical/health related resources available over the Net. The content of these websites are owned by the respective site owners and they may be contacted for any further information or suggestion. Broken links if any may be reported to IMC.

Contact us

Bibliographic Informatics Division
National Informatics Centre
(Department of Information Technology)
A-Block, CGO Complex, Lodhi Road
New Delhi-110 003, India.
Telephone: 91-11-24362359, Fax: 91-11-24362628
medinfo@hub.nic.in

http://indmed.nic.in/

- DELNET

  - Resource sharing network of libraries in India and some abroad

  - 950 libraries

  - Several Database – Books, Periodicals, Articles, Dissertations & Theses, Experts, Others

  - http:/www.delnet.nic.in

Multilingual Computing (MLC) Initiatives in India

Multilingual Computing

- 22 official languages, 428 known languages (415 living & 13 extinct)

- Key players in India
  - Centre for Development of Advanced Computing (CDAC)
  - Technology Development for Indian Languages (TDIL)
  - IIT (Kanpur & Mumbai)

- **Major thrust areas**
  - **Translation Support System**
  - **Human Machine Interface System**
  - **Knowledge Tools**
  - **Knowledge Resources**
  - **Localization**
  - **Language Technology Human Resource Development**
  - **Standardization (ISCII, Unicode, INSFOC, INSROT)**

- **Translation Support System**: A software for translation from English to Hindi based on Angla Bharati, Indian Institute of Technology, Kanpur
- **GyanNidhi**
  - 1 Million Pages Multilingual Parallel Corpus in English and 12 Indian languages.
  - Text in UNICODE format (International
  - Standard).
  - State of the art GUI.
  - Corpus collected from various domains.
  - Data availability in XML / HTML format.
  - Corpus management tools.

CDAC – Noida

- **Text to Speech Synthesis**
- **Dware Dware Gyan Sampada** - Mobile Digital Library
- **Chitraksharika**: Optical Character Recognition for Devanagari Script
- **Lekhika**: Platform Independent Word Processor (Linux, Solaris, Windows, etc.)
- **On-Line Hindi Vishwakosh**

- **ISCII** - forms the basis for UNICODE code assignments for Indian scripts

- Computer Processing of Indian Languages and scripts started in early seventies at IIT Kanpur

- INSCRIPT Keyboard

- **ANGLABHARATI** Technology (1993) : **Machine Aided Translation** system for translation from English to Indian Languages

IIT (Indian Institute of Technology) Kanpur

- Indian language WORDNET named **Shabd KalpTaru**
- Devanagari OCR
- Working on Spell-Checker design
- Shakti Machine Translation Kit

- **INSROT** – Indian Script Roman Transliteration Table: proposed as a standard transliteration scheme.

- **INSFOC** (Indian Standard Font Code)- Devanagari

- **Shakti** Machine Translation system
- **Morphological analyzers** for Indian languages
- **Shabdaanjali**: English to Hindi free e-dictionary
- Font converters and **ISCII plugins** for Indian scripts
- Text to **speech synthesizer** for Telugu
- **Information extraction** from resume

- **Chitrankan**: basic technology from ISI Calcutta

- Localization of Linux Operating System: **CDAC**, Mumbai

Google Search in Indian Languages

A Proposal

- Evolve a national network of distributed, inter-operable, open access digital repositories of S&T research material

  - Institutional digital repositories

  - Open access science journals, conferences…

- Network with global open access services

- Steps towards Realizing the Model
  - Academic & R&D institutions: Set up online digital repositories of their research output
  - Science journals (academic and R&D institutions, and professional societies) - adopt open access publishing
  - Establish new online-only open access journals
    - Areas of local strength (e.g. agriculture, medicine)
    - Graduate student journals
  - Incorporate peer review / quality control

- Operation of the model

  - Digital repositories - act as data providers and expose their metadata for harvesting

    - Use freely available OAI compliant software (e.g. DSpace, ePrint.org, CERN CDSWare, OJS, Greenstone DL) or develop necessary support

  - Service providers - harvest metadata from the repositories and offer variety of services at national level

- **Role of libraries**

    – **Establish and operate institutional repositories**

    – **Support researchers with open access publishing activities**

    – **Best suited to provide document preparation and content management expertise**

Open Source Institutional Archives Software

- Dspace http://cdsware.cern.ch/www.dspace.org

- Eprints   http://cdsware.cern.ch/www.eprints.org

- i-ToR   http://cdsware.cern.ch/www.i-tor.org/en/toon

- MyCoRe
  http://cdsware.cern.ch/www.mycore.de/engl/index.html

- CDSWare http://cdsware.cern.ch/

- FEDORA http://www.fedora.info/

- For more details on above a guide to Institutional Repository software is available at http://www.soros.org/openaccess/software/

Conclusions

- Digital Libraries are redefining the role of libraries in society & the role of librarians & information specialists
- National level mechanism is essential to promote and coordinate open access and public domain digital library systems
  - Improve awareness of open access
  - Regular training – tools, processes, standards
  - Support setting up of working models, services
  - National Resource Centre for open access publishing
- International agencies like UNESCO, ICSU, ICSTI, CODATA need to actively promote and support digital initiatives in developing country initiatives
- Think globally and act locally
- Forging collaborative partnerships

Possible Areas of Indo-German Inter Library Cooperation

- Digital Libraries
- Preservation and Conservation including Digital Preservation
- Open Access Initiatives
- Collaborative Project on development of databases and digital libraries on alternative medicine such as Ayurveda, Homeopathy and Yoga
- Training
- And so on…..

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- **SUB Goettingen, Germany**
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- **Indira Gandhi National Centre for the Arts, New Delhi, India**
- **For this presentation – Dr. Usha Munshi, Dr. Jagdish Arora, Dr. Devika, Dr. Manjunath and Dr Aditya Tripathi**
- *To my lovely wife- Kavita and sweet daughters Ritu & Nanu*
- **Many other Professionals, organizations and other colleagues in both Germany and India for providing various support during this visit**

Thank You
Namaskar
Questions are of welcome ?