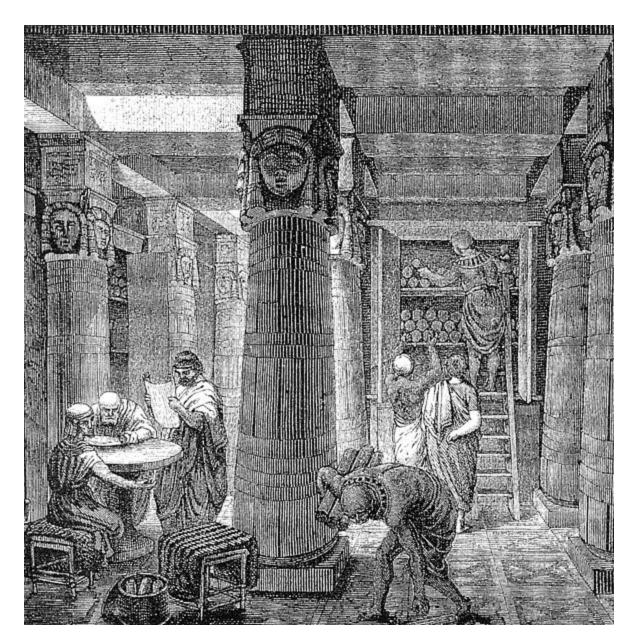
Digital Preservation - Challenges

G Santhosh Kumar Cochin University

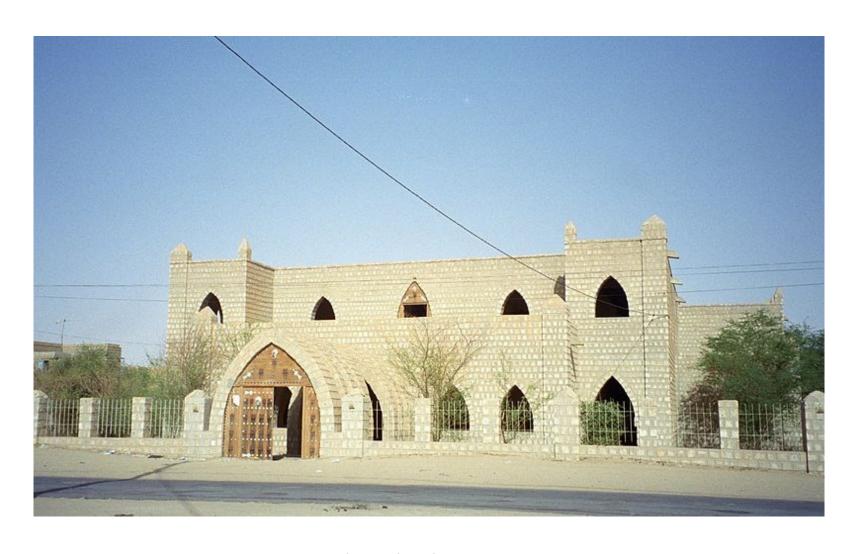
biblioclasm



1193 AD



Library of Alexandria, 30BC



Ahmed Baba Institute 2013 AD

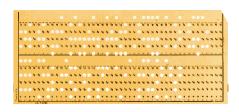


http://en.wikipedia.org/wiki/List_of_destroyed_libraries



Digital Obsolescence

A situation where a digital resource is no longer readable because the physical media, the reader required to read the media, the hardware, or the software that runs on it, is no longer available.



Punch cards



Punch tapes



Selectron tubes

Evolution and obsolescence of storage media



Magnetic Drum



Magnetic tapes



Audio Cassette







5 ¼ floppy disk



3 1/2 inch floppy disk

Evolution and obsolescence of storage media





DVD

Discontinued Tools, Closed Formats and Outdated Storage Devices

Computer hardware

Continued changes in CPU speed, memory, processing, etc. New hardware introducing new peripheral connections

Operating System

Upgraded versions or new OS does not run the old software Continued transition from 8bit OS to 64bit OSs and so on

Software

Software upgrades do not support the former file formats Proprietary and closed source software Discontinuation of software, lack of support

File formats

Proprietary and closed format specification Change in the format specification Discontinuation of the required software Data corruption

Storage devices and media

Continued reduction in size and cost of storage devices

Continued increase in storage capacity and performance

Polycarbonate media like CD and DVD have uncertain lifetimes (Cerf, 2010)

Obsolete storage media and unavailable reading devices e.g. 5 1/4" or 3 1/2" floppies

New approaches like storage virtualization

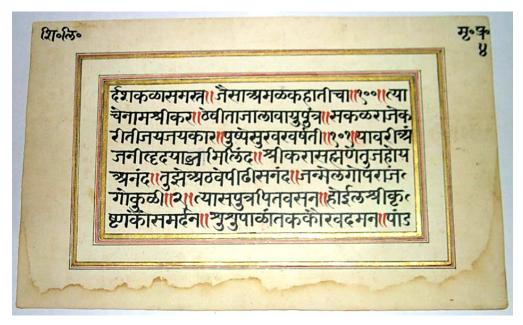


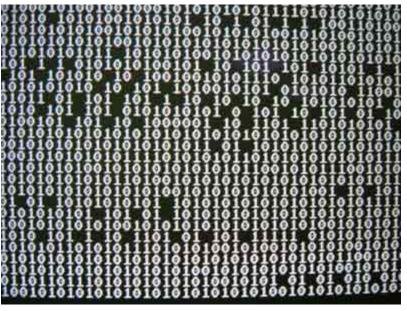
Physical threats

Improper storage environment (temperature, humidity, dust, light)
Overuse and handling of media
Natural disaster
Infrastructure failure
Human error
Sahotage

Tangible versus non-tangible

Electronic These & Dissertation





Preservatives?





Egypt discovers dozens of wellpreserved mummies in 4,000-year-old necropolis in Fayoum



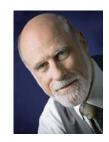
What is Digital Preservation?

Definition

Long Term Digital Preservation (LTDP) is a secure and trustworthy mechanism to ingest, process, store, manage, protect, find, access, and interpret digital information such that the same information can be used at some arbitrary point in the future in spite of obsolescence of everything: hardware, software, processes, format, people, etc.

What does "Long Term" mean?

How can we increase the likelihood that data generated in 2010 or earlier will still be accessible in useful form in 2020 and later? (Cerf, 2010)



Data should normally be preserved and accessible for not less than 10 years for any projects, and for projects of clinical or major social, environmental or heritage importance, the data should be retained for up to 20 years" (Research Councils UK 2008:6)

An archive is expected to provide permanent or indefinite Long Term, preservation of digital information. (OAIS, 2009)

Benefits

Digital preservation provides benefits such as legal protection, knowledge heritage for future work / future generations, trend analysis, reuse etc.

Digital Universe / Digital Dark Age

As per the "Digital Universe Study Report" by International Data Corporation (IDC), 2010 -

- Estimated Size of Digital Universe in 2010
 - 1.2 million Petabytes or 1.2 Zettabytes
- Estimated Size of Digital Universe in 2020

35 Zettabytes

(As all major forms of media –voice, TV, radio, print would have completed the journey from analog to digital.)

Estimated Size of Unprotected Data needing protection in 2020
 18,000 Exabytes

```
1 Terabyte = 1,000,000,000,000 bytes B = 10<sup>12</sup>

1 Petabyte = 1,000,000,000,000,000 bytes B = 10<sup>15</sup>

1 Exabyte = 1,000,000,000,000,000 bytes B = 10<sup>18</sup>

1 Zettabyte = 1,000,000,000,000,000,000 bytes B = 10<sup>21</sup>
```

International Trends of Digital Preservation



National Digital Information Infrastructure and Preservation Program (NDIIPP),

USA – started in 2000



Network of Expertise in Long-term STOrage of Digital Resources (NESTOR),

Germany – started in 2003



CASPAR - Cultural, Artistic and Scientific knowledge for Preservation, Access and Retrieval UK – started in 2006

International Trends of Digital Preservation



Planets: Preservation and Long-term Access through Networked Services



DigitalPreservationEurope (DPE)



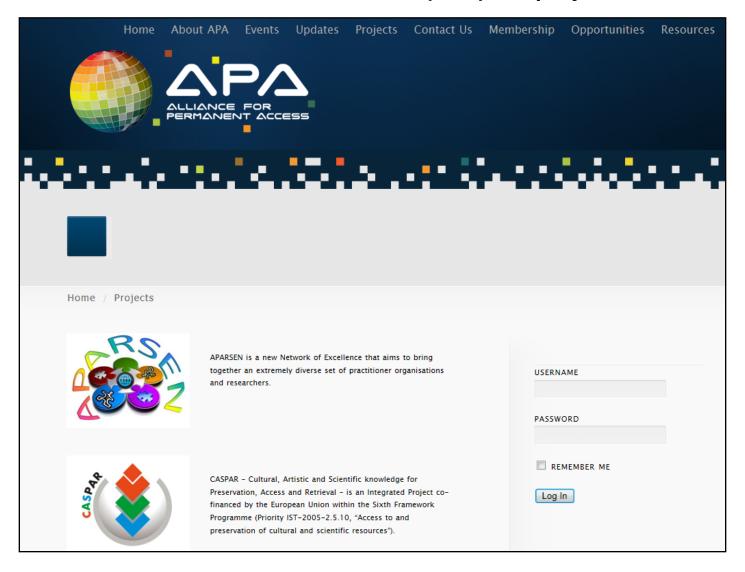
Digital Curation Centre (DCC)



APARSEN: Network of Excellence

International Trends of Digital Preservation

Alliance for Permanent Access (APA), EU project



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The Library of Congress > Digital Preservation

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Resources

- Digital Formats Sustainability
- Federal Agencies Digitization
 Guidelines Initiative
- Preservation and Conservation at the Library of Congress
- > Section 108 Study Group
- Standards at the Library of Congress
- Web Archiving at the Library of Congress

Digital Preservation



This is the home of the National Digital Stewardship Alliance, Digital Preservation Outreach and Education and the National Digital Information Infrastructure and Preservation Program.

National Digital Stewardship Alliance



An initiative of the National Digital Information Infrastructure and Preservation Program, NDSA members work together to make a sustained contribution to digital stewardship.

Read about the NDSA »

Preserving Your Digital Memories



Just as libraries are preserving the nation's digital memory, individuals need to take steps to preserve their own digital memories. Here are some tips on what you can do.

View the tips »

Digital Preservation Outreach and Education



Fostering a national outreach and education network to encourage the preservation of digital content.

See how you can learn more »

Recent Blog Posts

- Personal Digital Archiving 2014: Building Stronger Personal Digital Archiving Communities
- From Analog to Digital: A Changing Picture of the Kennedy Assassination
- On the Road with FADGI: Recent Conference Presentations Highlight Current Audio and Video Projects

Read The Signal Blog »

Library of Congress Digital Preservation Newsletter



The monthly Digital Preservation

Library of Congress Web Archives Minerva

LC Web Archives

The Library's Web Archives have been upgraded to a <u>new presentation</u>! Read more about it in our announcement.

Web Archives Available:

- Crisis in Darfur, Sudan, Web Archive, 2006
- Indian General Elections 2009 Web Archive
- Indonesian General Elections 2009 Web Archive
- Iraq War 2003 Web Archive
- Law Library Legal Blawgs Web Archive
- <u>Library of Congress Manuscript Division Archive of</u> Organizational Web Sites
- Papal Transition 2005 Web Archive
- September 11, 2001 Web Archive
- Single Sites Web Archive
- United States 107th Congress Web Archive
- United States 108th Congress Web Archive
- United States Election 2000 Web Archive
- United States Election 2002 Web Archive
- United States Election 2004 Web Archive
- United States Election 2006 Web Archive
- United States Election 2008 Web Archive
- Visual Image Web Sites Archive



The Library of Congress Web Archives (LCWA) is composed of collections of archived web sites selected by subject specialists to represent webbased information on a designated topic. It is part of a continuing effort by the Library to evaluate, select, collect, catalog, provide access to, and preserve digital materials for future generations of researchers. The early development project for Web archives was called MINERVA.

LC Web Archives



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The Library of Congress > Chronicling America



CHRONICLING AMERICA Historic American Newspapers

Search America's historic newspaper pages from 1836-1922 or use the U.S. Newspaper Directory to find information about American newspapers published between 1690-present, Chronicling America is sponsored jointly by the National Endowment for the Humanities rand the Library of Congress, Learn more »





- About Chronicling America
- About the Site and API
- Recommended Topics
- Help

More Resources

- National Digital Newspaper Program
- NDNP Award Recipients
- > Newspaper and Current Periodicals Reading Room
- > Ask LC Newspaper & Current Periodicals Librarian
- (part of the LC Flickr Commons photostream)



100 Years Ago Today: 11/27/1913 (58 issues)

The News-Herald. (8pp.) Hillsboro, Highland Co., Ohio



The Enterprise. (4pp.) Harlem, Mont.



Eastern Utah advocate. (8pp.) Price, Utah



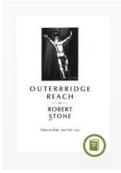
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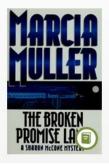


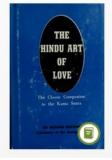
One web page for every book



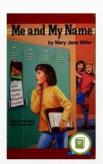
Books to Borrow Here's a sample of recently returned books from the eBook lending library.





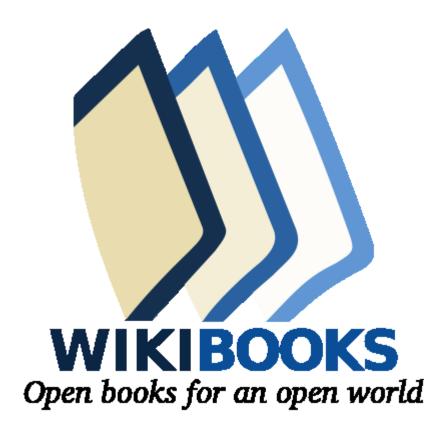












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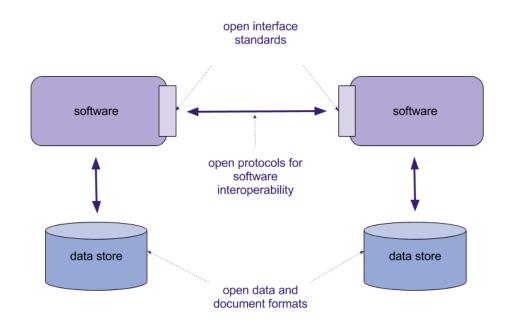
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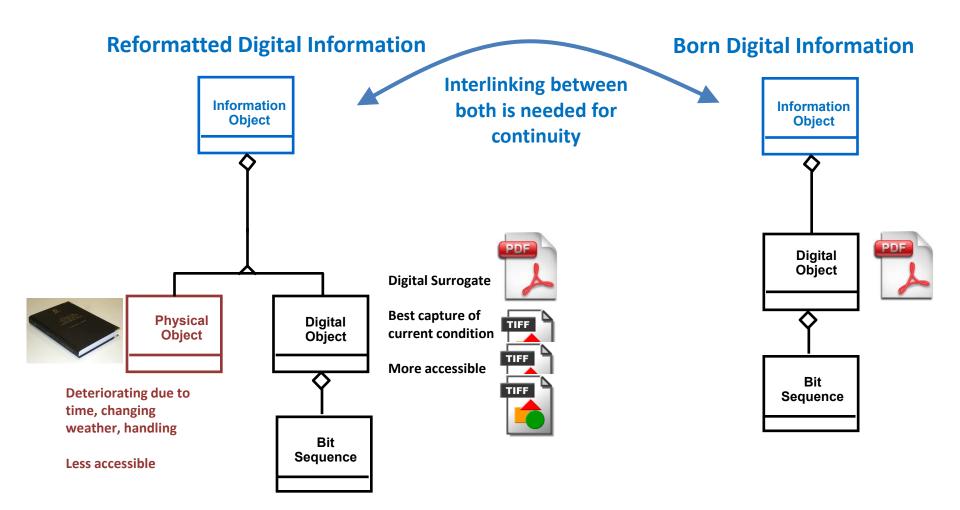


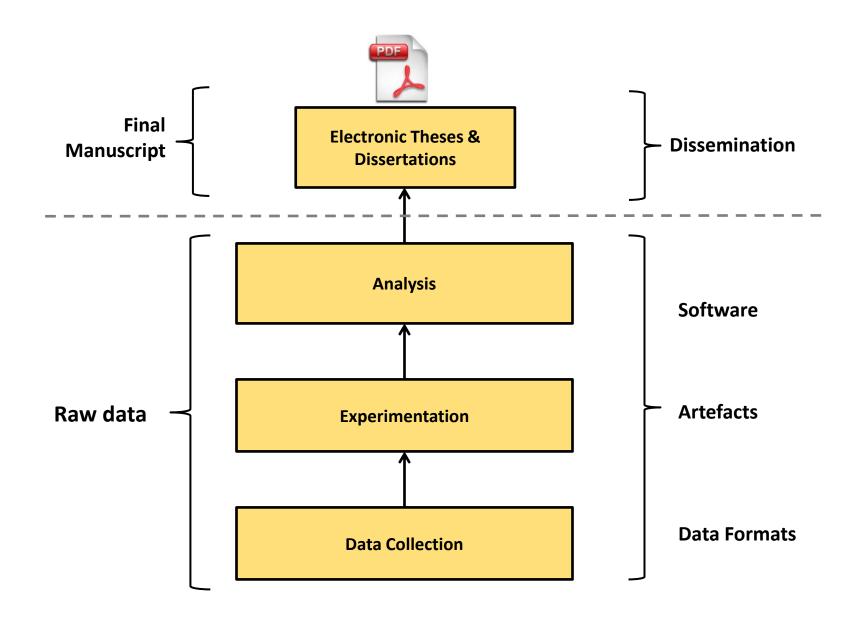


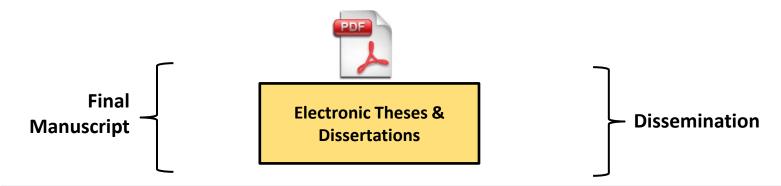


Motivations for Management of Electronic Theses and Dissertations

- Archive and preserve valuable scholarly / academic resources
- Make it accessible to designated users
- Enable further research advancements
- Knowledge enhancement, problem solving
- Collective growth
- Comparative quality







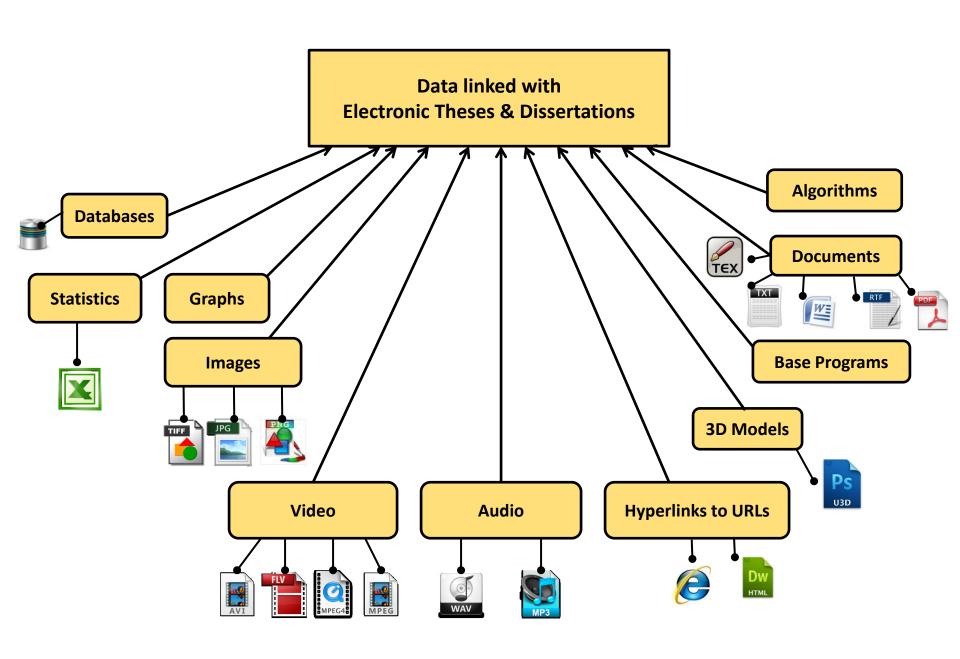
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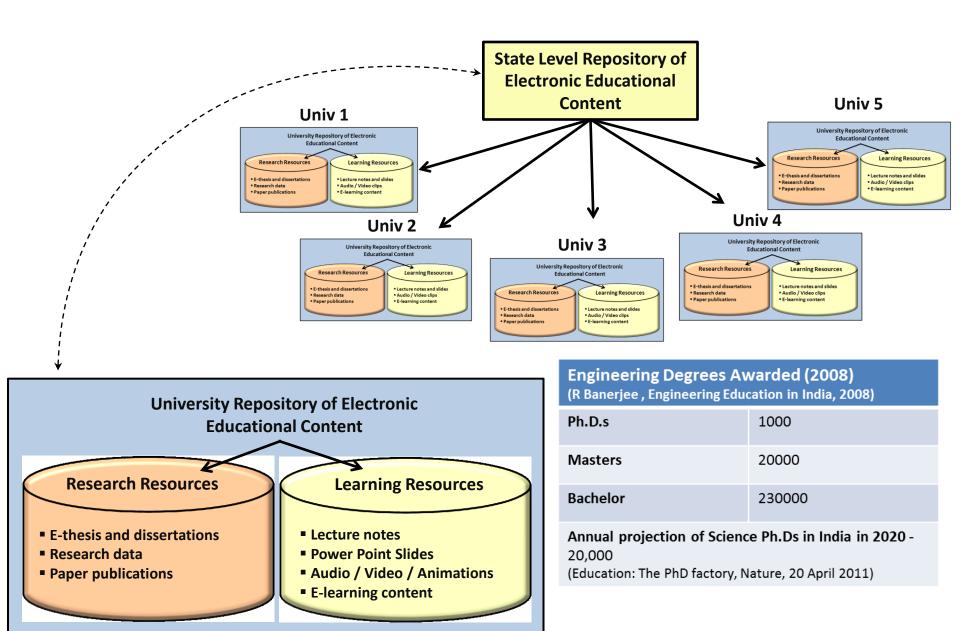
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- 4. 100% self contained
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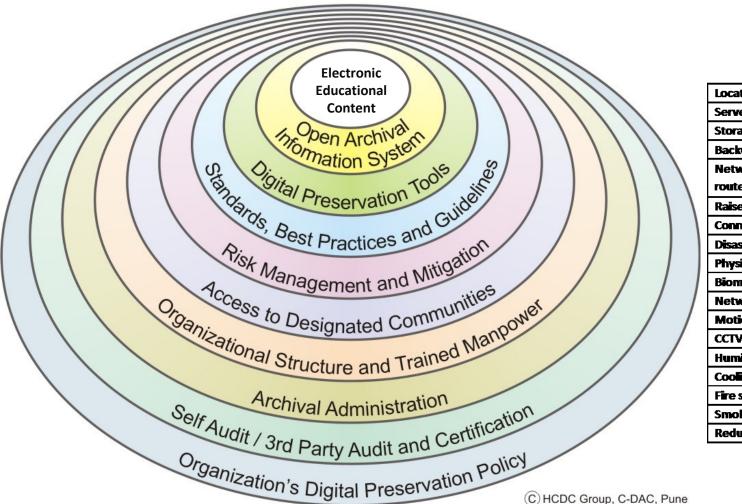
Prohibitions

- 6. Information from direct or indirect external sources
- 7. Transparency and sound and movie actions





Trusted Digital Repository of Electronic Educational Content



Physical setup

Location, building architecture
Server hardware / racks / KVM
Storage hardware (SAN, NAS)
Backup device
Network Infrastructure (Switches,
routers, UTM)
Raised flooring
Connectivity and bandwidth
Disaster recovery site
Physical Security
Biometric Security
Network Security (Firewall)
Motion detection for lighting
CCTV digital recorders
Humidity control
Cooling
Fire suppression
Smoke detection
Redundant power supply

Key concerns in ETD and e-content preservation

- Raw research data
- Use of Indian languages for thesis writing
- Specifications for learning objects
- Version control
- De-duplication
- Copyright protection
- Authentication
- Type of data and file formats
- Define the standard practices
- Digital preservation strategy
- Data and value sharing rules



Credits:

The design diagrams used in this presentation are copied from NDPP project of India's National Digital Preservation Programme www.ndpp.in

Organizing Digital Information

G Santhosh Kumar Cochin University

Digital Librarian

A digital librarian, a type of specialist information professional who manages and organizes the digital library, combines the functionality for information, elicitation, planning, data mining, knowledge mining, digital reference services, electronic information services, representation of information, extraction, and distribution of information, coordination, searching notably CD-ROMs, online, Internet-based WWW, multimedia access and retrieval.

Goal of a DL

The ultimate goal of a DL is to facilitate access to information just-in-time to the critical wants of end users and additionally to facilitate electronic publishing

The digital librarian plays a distinctive and dynamic role in easy accessing of computer- held digital information including abstracts indexes, full-text databases, sound and video recording in the digital format

Goal of a DL

For finding the right information at the right time, the research, education and training, learning and developmental work and disseminating to the user in required format are the basic requirements of DL.

Organizing e-Resources

G. Santhosh Kumar Cochin University



What are e-resources?

 Electronic resources comprise of library online catalog, Online Journals, Databases, Newspapers, Reference Materials, Open Access Journals, e-books, and online bookshops



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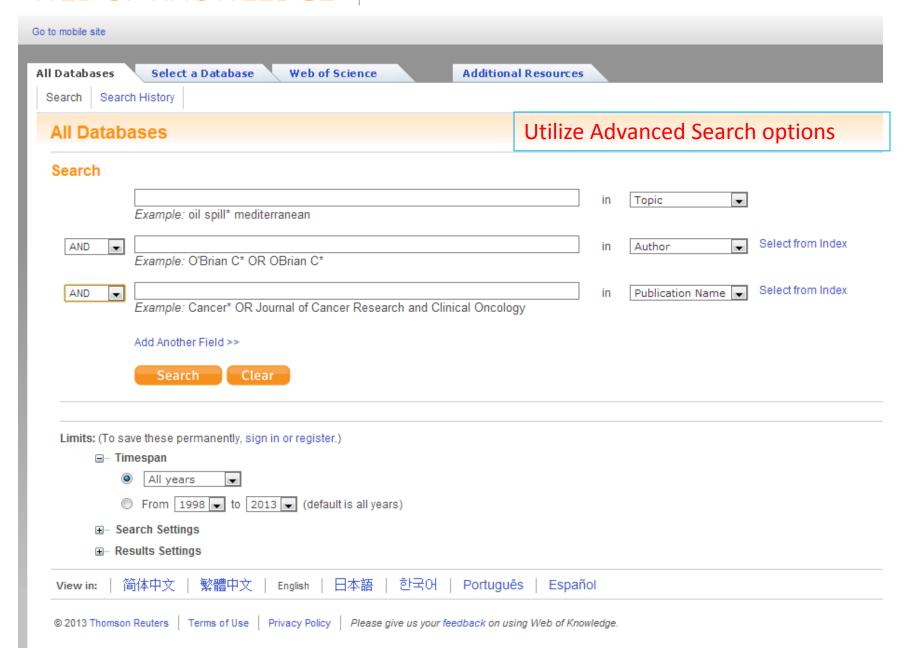
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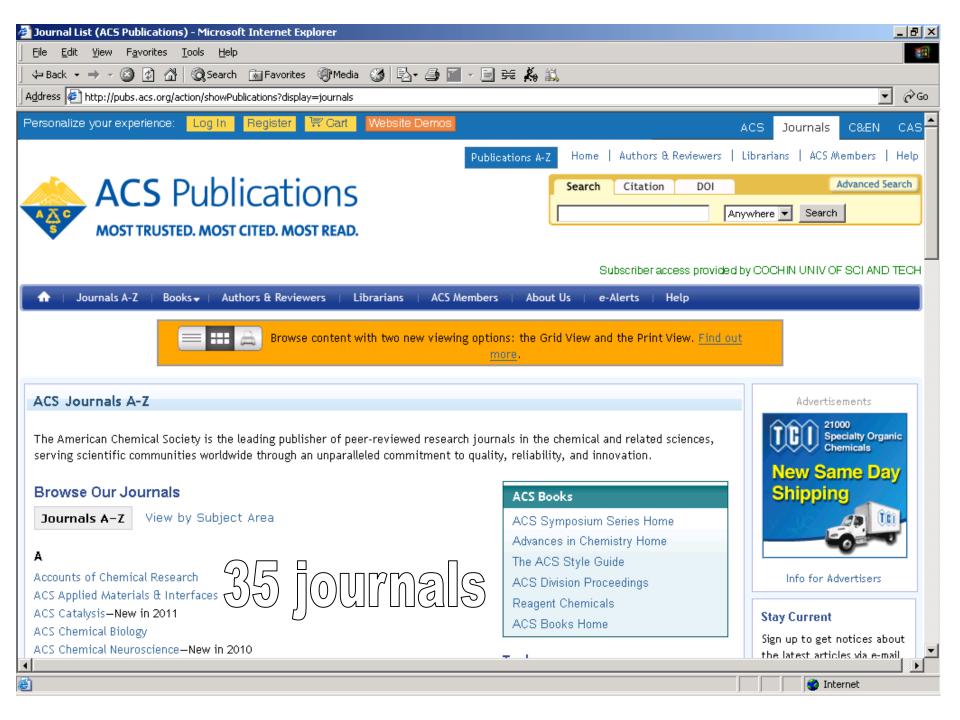
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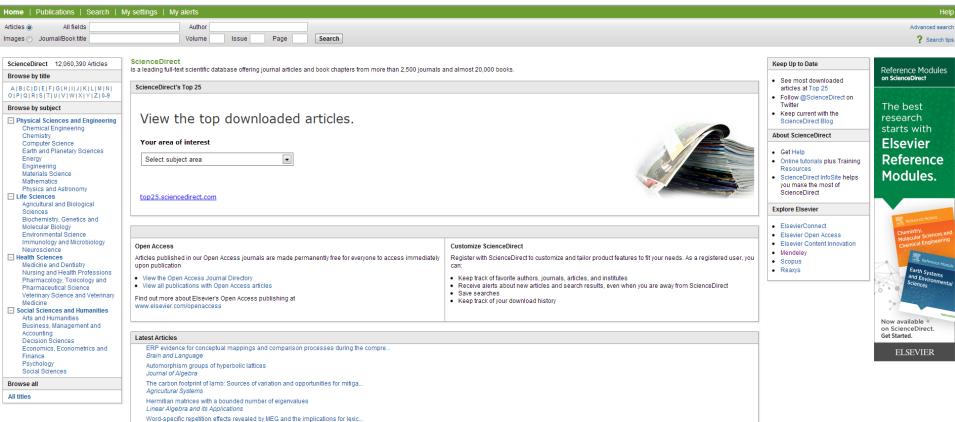








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IEEE and ACM are pleased to announce that the IEEE Transactions on Audio, Speech, and Language Processing and the ACM Transactions on Speech and Language Processing will be published jointly as the IEEE/ACM Transactions on Audio, Speech, and Language Processing, starting January 2014. Papers from the new Transactions will appear in both IEEE Xplore and the ACM Digital Library. Publication will be managed by IEEE as a hybrid journal, allowing either traditional or open access manuscript submission. The new journal welcomes novel contributions in all areas covered by the two journals, which includes audio, speech, and language processing and the sciences that support them.

For more information on the new journal, see IEEE TASLP. For new submissions, go to http://mc.manuscriptcentral.com/sps-ieee

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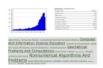
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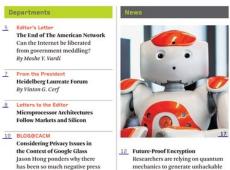
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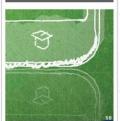
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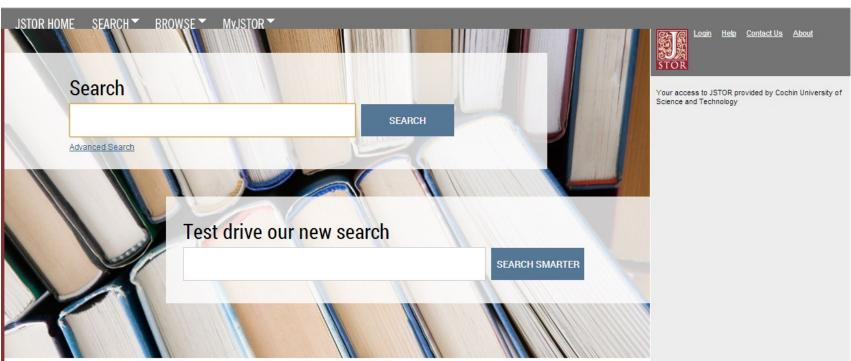




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Faculty win "genius grants" October 2nd, 2013

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Explore Professor Katabi's research

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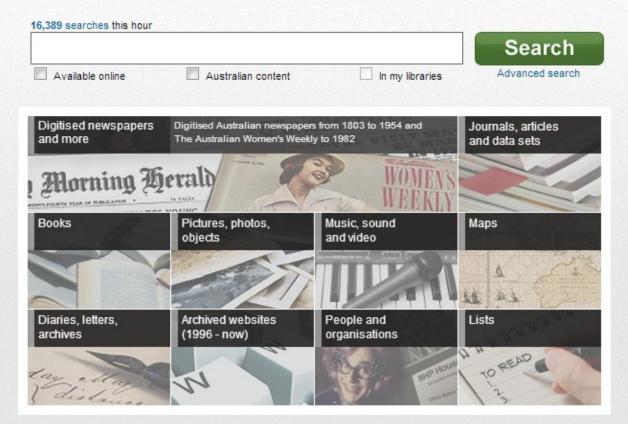
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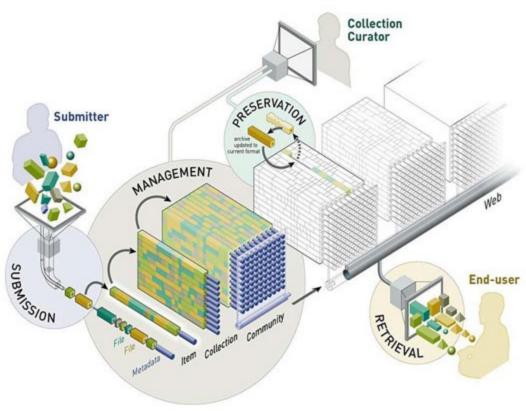
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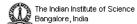
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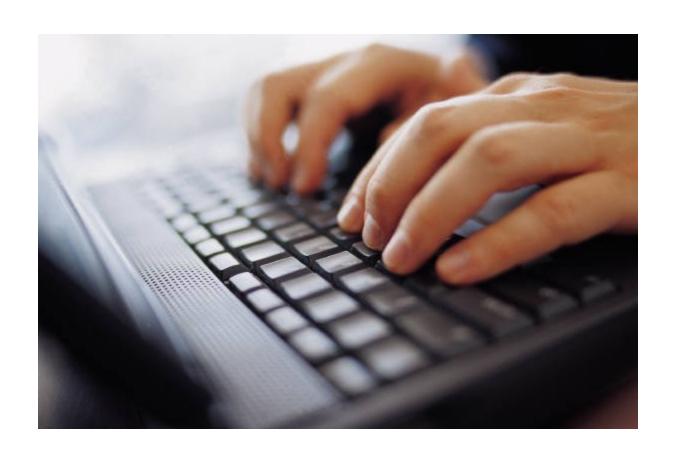
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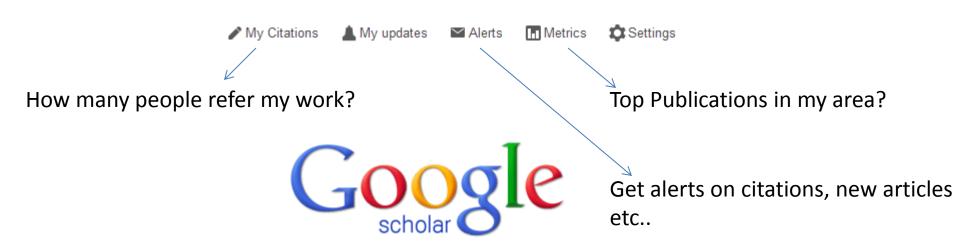


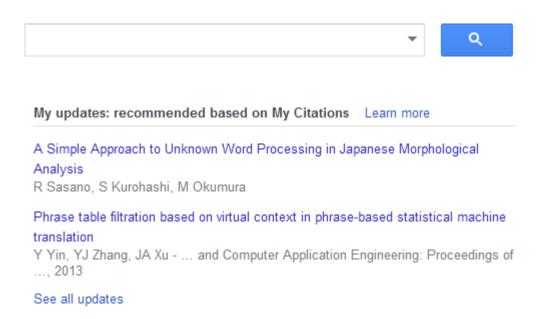
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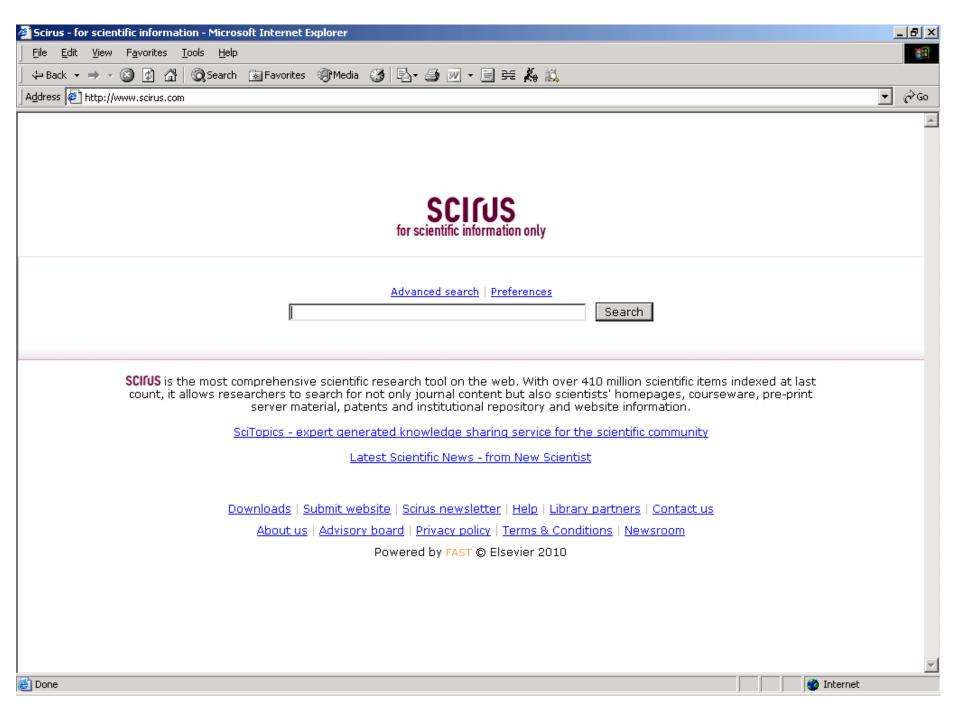
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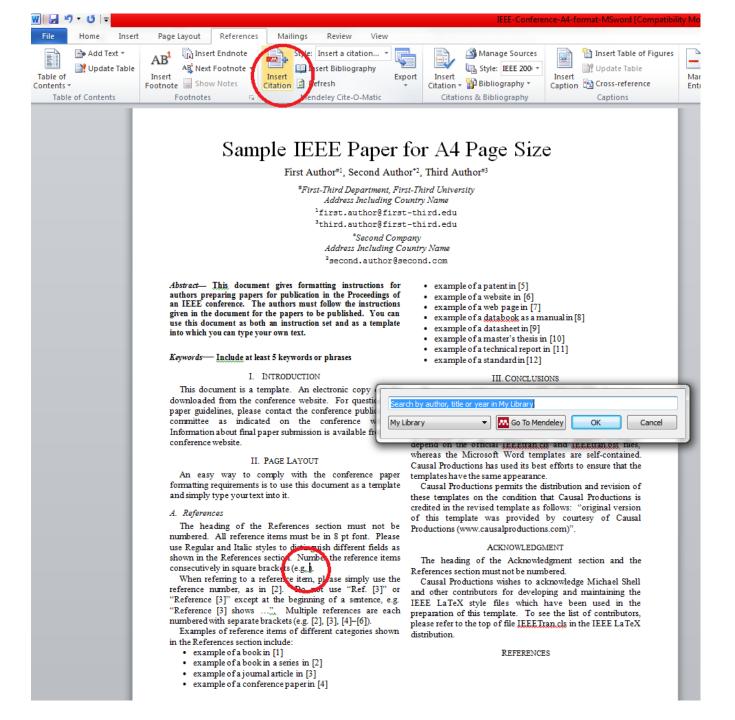


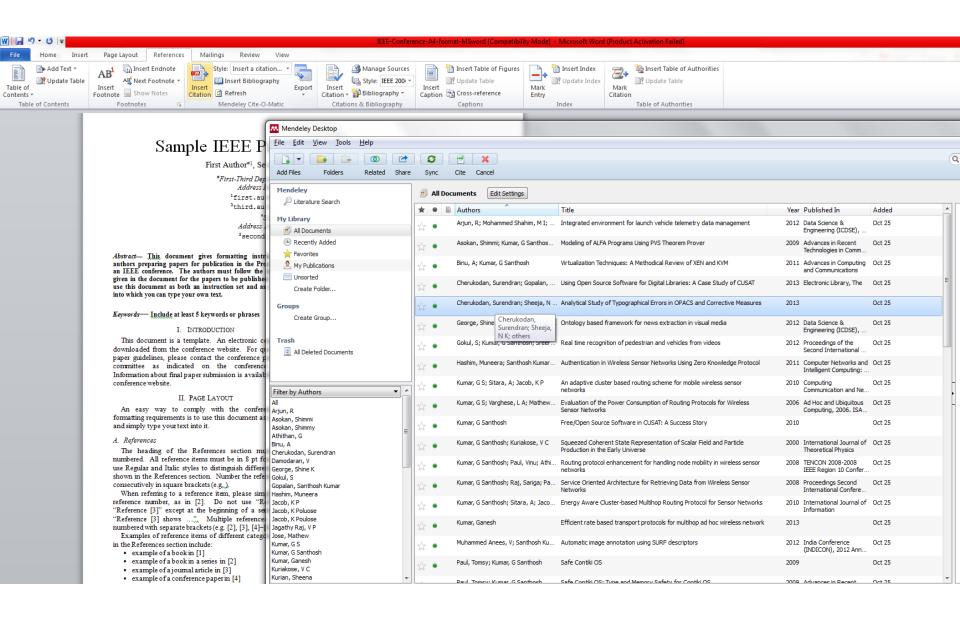
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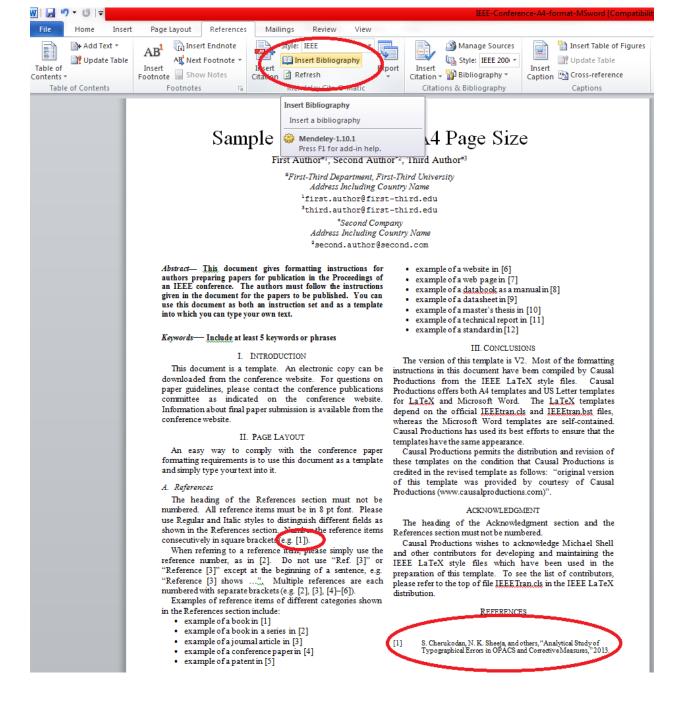
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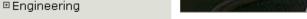


Open Courseware









OFEATURED COURSE



Photo of the interior of the Sagrada Familia by <u>Joe Martis</u> on Flickr.

Form-Finding and Structural Optimization: Gaudi Workshop

Explore three-dimensional problems in the static equilibrium of structural systems under a variety of loads in *Form-Finding and Structural Optimization: Gaudi Workshop*. Be sure to check out the Projects section for two examples of student work.

Done

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NMEICT - SAKSHAT

About NPTEL

FAQ

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NPTEL Courses

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 seven IITs and IISc Bangalore as a collaborative project. In the first phase of the project, supplementary content for 129 web courses in engineering/science and humanities have been developed. Each course contains materials that can be covered in depth in 40 or more lecture hours. In addition, 110 courses have been developed in video format, with each course comprising of approximately 40 or more one-hour lectures. In the next phase other premier institutions are also likely to participate in content creation.

The NPTEL project, receives its funding support through the National Mission on Education through Information and Communication Technology (NMEICT) since the year 2009. For the NMEICT Website please click here: NMEICT, The Sakshat Mission.

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Whats New

More than 900 Courses by 2012

- 11 June 2010 <u>Launching NPTEL Phase 2</u>
 View the titles and syllabus of courses proposed.
- 4-Nov-2010 Video Course on Power System Dynamics added.
- 29-Oct-2010 Video Course on Applied mechanics added.
- 27-Oct-2010 Video Course on CAD/CAM added.
- FAQ Online Payment Method Added.
- FAQ Tracking NPTEL Order Status.

Branch	Web	Video
Basic Courses (Sem I & II)	16	20
Civil Engineering	24	19
Computer Science & Engineering	22	19
Electrical Engineering	16	25
Electronics & Communication Engineering	20	22
Mechanical Engineering	27	24
Ocean Engineering		3
D: _111		1

Conclusion







