Introduction to NDLTD and Brief History of the ETD Movement

ETD 2012: 15th Int’l Symposium on ETDs
Lima: ETDs for Rookies

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Outline

• Acknowledgements
• Digital Libraries
• NDLTD
• Background for Future Work
• Summary
Acknowledgements

- Family, mentors, teachers, students
- All those working with ETDs
- NDLTD, including its Members, Board, and Committees
- ETD 2012 Conference Team
- Sponsors
- Presenters, Attendees
Acknowledgements (2): Mtgs

- 1987 mtg in Ann Arbor: UMI, VT, Arbortext, Softquad
- 1992 mtg in Washington: CNI, CGS, UMI, VT + 10U’s
- 1993 mtg in Atlanta: Monticello Electronic Library
- 1994 mtg at VT: std: PDF + SGML + multimedia
- 1996 mtg with funding by SURA and then also by the US Dept. of Education (FIPSE)
- 1997 meetings in UK, Germany, ...
- 1998 – 1st symposium – Memphis (20)
- 1999 – 2nd symposium – Blacksburg (70)
- 2000 – 3rd symposium – St. Petersburg, FL (225)
- 2001 – 4th symposium – Caltech, Pasadena (200)
- 2002 – 5th symposium – BYU, Provo, Utah

Cont’d …
Acknowledgements (3): Mtgs

• 2003 – NDLTD incorporated as int’l non-profit
• 2003 – 6th symposium – Berlin (215)
• 2004 – 7th symposium – U. Kentucky
• 2005 – 8th symposium – Sydney, Australia
• 2006 – 9th symposium – Quebec City, Canada
• 2007 – 10th symposium – Uppsala, Sweden
• 2008 – 11th symposium – Aberdeen, Scotland
• 2009 – 12th symposium – Pittsburgh, PA
• 2010 – 13th symposium – Austin, TX
• 2011 – 14th symposium – Cape Town, S. Africa
Outline

• Acknowledgements

• Digital Libraries
  – Including ePrints, DSpace, Fedora
  – Including (institutional) repositories
  – Incl. Content/Courseware Management Systems
  – Personal -> Group -> Publisher -> Global

• NDLTD

• Background for Future Work

• Summary
Degree of Structure

Web  DLs  DBs

Chaotic  Organized  Structured
Informal 5S & DL Definitions

DLs are complex systems that

• help satisfy info needs of users (societies)
• provide info services (scenarios)
• organize info in usable ways (structures)
• present info in usable ways (spaces)
• communicate info with users (streams)
DLs Support Many User Roles

Roles

Students  Advisors  Users

Readers  Teachers  Learners

Researchers  Librarians

Digital Library
Digital Libraries (DLs) -- Objectives

- World Lit.: 24hr / 7day / from desktop
- Ubiquitous
- Integrated “super” information systems
- Usable, Useful
- Higher Quality, Lower Cost
- Education, Knowledge Sharing, Discovery
- Disintermediation -> Collaboration
- Universities Reclaim Property
- Interactive Courseware, Student Works
Why of Global Interest?

• **National projects** can preserve antiquities and heritage: cultural, historical, linguistic, scholarly

• Knowledge and information are essential to economic and technological **growth, education**

• **DL - a domain for international collaboration**
  – wherein all can **contribute** and **benefit**
  – which leverages investment in **networking**
  – which provides useful **content** on Internet & WWW
  – which will **tie nations and peoples together** more strongly and through **deeper understanding**
Digital Library Content

Content Types

Text Documents
- Articles, Reports, Books

Video Audio
- Speech, Music

Geographic Information
- (Aerial) Photos

Software, Programs
- Models Simulations

Bio Information
- Genome Human, animal, plant

Images and Graphics
- 2D, 3D, VR, CAT
### Infrastructure Services

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**Repository-Building**
- Acquiring
- Cataloging
- Crawling (focused)
- Describing
- Digitizing
- Federating
- Harvesting
- Purchasing
- Submitting

**Add Value**
- Conserving
- Converting
- Copying/Replicating
- Emulating
- Renewing
- Translating (format)
- Annotating
- Classifying
- Clustering
- Evaluating
- Extracting
- Indexing
- Measuring
- Publicizing
- Rating
- Reviewing (peer)
- Surveying
- Translating (language)

**Information Satisfaction Services**
- Browsing
- Collaborating
- Customizing
- Filtering
- Providing access
- Recommending
- Requesting
- Searching
- Visualizing
Institutional Repositories - 1

- “Institutional repositories are digital collections that capture and preserve the intellectual output of a single university or a multiple institution community of colleges and universities.”
- Crow, R. “Institutional repository checklist and resource guide”, SPARC, Washington, D.C., USA
Institutional Repositories - 2

• “A university-based institutional repository is a set of services that a university offers to the members of its community for the management and dissemination of digital materials created by the institution and its community members. It is most essentially an organizational commitment to the stewardship of these digital materials, including long-term preservation where appropriate, as well as organization and access or distribution.”

For More Information (Examples)

- **Magazine**: www.dlib.org
  - Morgan Kaufmann: Witten... (several), Lesk (2\textsuperscript{nd} edition)
  - Fox 2012: Morgan Claypool (short) + ? (long)
- **Conferences**
  - ICADL: http://www.icadl.org
  - JCDL: [http://www.jcdl.org](http://www.jcdl.org)
  - TPDL: http://www.tpdl2012.org
- **Associations**
  - ASIS&T DL SIG: http://www.asis.org/SIG/dl.html
  - IEEE TCDL: http://www.ieee-tcdl.org
- **NSF**: http://www.dlib.org/dlib/july98/07griffin.html
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NDLTD: www.ndltd.org

• N D Ltd or Noodle TD

• Vision: Every thesis and dissertation in the world is:
  – Devised to take advantage of the most helpful electronic publishing methods
  – Shared globally and easily found
  – Supported by a suite of digital library services to aid authors, researchers, learners, universities
  – Preserved and migrated permanently
ETDs: Library Goals

• Improve library services
  – Better turn-around time
  – Always available

• Reduce work
  – Catalog from e-text
  – Eliminate handling: mailing to commercial contractor, bindery prep, check-out, check-in, reshelving, etc.

• Save space
What are we doing?

• Aiding universities to enhance graduate education, publishing, and Intellectual Property Rights efforts

• Helping improve the availability and content of theses and dissertations

• Educating ALL future scholars so they can publish electronically and effectively use digital libraries (i.e., are Information Literate / Fluent, and can be more expressive)
Welcome to *The Guide for Electronic Theses and Dissertations*. We offer this site as a resource for graduate students who are writing theses or dissertations, for graduate faculty who want to mentor ETD authors, for graduate deans who want to initiate ETD programs, and for IT administrators at universities. *The Guide* is designed specifically for academic researchers and their mentors, yet anyone interested in research and e-publishing will enjoy this resource.

Published by UNESCO, *The Guide* is an international, "living" document, written by ETD (electronic thesis and dissertation) scholars throughout the world (see *About the Authors*). *The Guide* will be updated regularly based on submissions by ETD authors and NDLTD members.

We invite you to contribute essays describing your university's best ETD practices, to suggest ETD Resources, or to nominate ETDs for our *Exemplary ETD Database*.

This site requires Adobe Acrobat Reader.
NDLTD Incorporation

- Networked Digital Library of Theses and Dissertations incorporated May 20, 2003 in Virginia, USA
- Charitable and educational purposes (501 c 3)
- Officers (now)
  - Executive Director (Ed Fox, fox@vt.edu)
  - Secretary (Sharon.reeves@rogers.com)
  - Treasurer (Austin.McLean@proquest.com)
Mission

• The Networked Digital Library of Theses and Dissertations (NDLTD) is an international organization that, through leadership and innovation, promotes the adoption, creation, dissemination, use, and preservation of electronic theses and dissertations (ETDs).

• The NDLTD encourages and supports the efforts of institutions of higher education & their communities to advance and apply electronic publishing & digital libraries (including repositories), thus enabling them to share knowledge more effectively in order to unlock the potential benefits worldwide.
How You Can Participate

• Primarily, a volunteer organization

• Local and regional activities

• NDLTD Committees (including):
  – Awards, Communications,
  – Conferences, Membership
Scirus ETD Search

This search service is provided courtesy of Scirus, based on data harvested from the Union Archive hosted by OCLC.

Basic Search

Query: [Input Field]

Search

Advanced Search

All of the words [Input Field] in [Input Field]

AND

All of the words [Input Field] in [Input Field]

AND

All of the words [Input Field] in [Input Field]

Only show results published between [1980] and [2012]

Only show results in
- All subject areas
- Astronomy
- Earth and Planetary Sciences
- Engineering, Energy and Technology
- Languages and Linguistics
- Life Sciences
- Mathematics
- Neuroscience
- Physics
- Social and Behavioral Sciences

Only search in the following collection
- ETDs
- The Scholarly Web
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Background for Future Work

- Electronic Publishing
- Computer Literacy/Fluency -> Computational Thinking
- Scholarly Communication
- Open Access
- Institutional Repositories
- Open Archives Initiative (OAI)
The World According to OAI

Service Providers
- Discovery
- Current Awareness
- Preservation

Metadata harvesting

Data Providers
Metadata Objects (MDOs)

- MARC
- Dublin Core -> ETD-MS
- RDF
- OAI (Open Archives Initiative):
  PMH, ORE
- Crosswalks, mappings
- Ontologies, Classification systems
OAI – Black Box Perspective
OAI – Repository Perspective

Required: Protocol

Set Structure

URI Scheme

MDO  MDO  MDO  MDO

MDO  MDO  MDO  MDO

DO  DO  DO  DO
Summary

• Acknowledgements
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Why ETD? Short Answer

• For Students:
  – Gain knowledge and skills for the Knowledge Society
  – Richer communication (digital information, multimedia, …)

• For Universities:
  – Easy way to enter the digital library field and benefit thereby (“no brainer” entrée into institutional repositories)

• For the World:
  – Global digital library – large, useful, many services

• General:
  – Save time and money
  – Increased visibility for all associated with research results
Questions?
Discussion?
Recommendations?

Thank You!

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