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The institutional repository of NTUA: challenges, concerns, pilot implementation and perspectives

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The DL: challenge, vision

• Our *Digital Library* (DL) – DSpace installation
  – Unique Greek content digitized collection
  – Evolving *Institutional Repository* (IR)
    • Starting with ETDs
    • Goal: the bulk of grey literature

• The challenge: IR development
  – Currently, pilot implementation and evaluation

• NTUA Central Library vision
  – To provide open access to grey literature
  – To promote scientific research
ETD depositing and writing specifications

• The NTUA Senate’s decision (February 24, 2006) gives the Central Library
  – The right to collect and deposit the ETDs and
  – The privilege – responsibility to define the necessary specifications, standards and procedures for writing, e-submission, storage, deposit and access of ETDs

• We adhere to the existing ETD templates that each faculty has established but…

• We intent to propose and implement a flexible, integrated and unique template, based on the ETD guide (UNESCO)
ETD e-submission

• Innovative procedure for Greek Universities
  – i.e. Aristotle University of Thessaloniki, Aegean University
    have already implemented e-submission
  – NTUA follows closely

• Primary goal – to establish new routines for the
  academic-scientific community regarding ETDs, e-submission
  and self-archiving
  – Waiting for the community’s reaction…

• Implemented steps for e-submission
  – Web-based e-submission form including online help in
    Greek and English
Prior to ETD e-submission…

- Detailed instructions for
  - Metadata entry, storage and accessibility
  - Intellectual property rights
  - Access points and policies
  - ETD e-submission form
    - Copyright and policy statement
    - Metadata
    - ETD file upload

- Additionally, instructions for submitting the printed ETD and its electronic version (CD/DVD) to the Central Library for archiving and backup reasons
Web-based form

- Acts as a *proxy* between *DSpace* and the end-user
- The *user* (student) enters the metadata according to the necessary specifications, constrains, etc.
- The web-based form *fields* filled by the user are:
  - Selection of access policy by filling the copyright and access policy statement
  - Title, alternative title, author, supervisor, committees, keywords (*un-controlled*), release date, acceptance date, etc. (metadata)
- The form’s fields are similar to *Dublin Core* fields used in the DSpace system for ETDs
Web-based form: online help, technical characteristics

• Detailed online help (Greek, English) for
  – Metadata entry
  – Term definition
  – Access policies
  – Intellectual property rights

• Technical characteristics
  – JAVA technology
  – Postgres SQL Database
  – SUN Solaris Operating System
  – Apache Tomcat Web container
Web-based form screenshot (development)
Metadata: entry, storage, accessibility, format

- User (student) enters the metadata to the proxy
- Librarians check, validate and import the metadata to the DSpace system and OPAC
- Two access points (DSpace, OPAC) for interoperability and integration reasons
  - DSpace is the primary access point
  - OPAC (uses ALEPH) acts as a backup in UNIMARC format
- Metadata format in DSpace – Dublin Core qualified (application profile)
Access policies

User (student) selects the desired access policy:

- **WWW access**
  - No restrictions, available to all

- **NTUA access** – restricted to NTUA community
  - On and off-campus, based on IP filtering
  - After **three** years automatically reverts to **WWW access**

- **No access** (i.e. patent pending, intellectual property uncertainties)
  - After **one** year, reverts to **NTUA access** and finally to **WWW access**
XML access policies – documentation

• The policies are expressed in XML
  – ETDFree-policy.xml → WWW access
  – ETDLocked-policy.xml → NTUA access
  – ETDRestricted-policy.xml → No access
• User may view the policies through the metadata
  – dc.rights field
• The appropriate documentation on
  – Intellectual property and access policies
  – Metadata fields – format
  – User’s help

is available at the proxy and at http://dspace.lib.ntua.gr
Access policy workflow

1. Submit ETD
2. Is Restricted?
   - Yes: No Access
   - No: >3 years?
3. >3 years?
   - No: NTUA Access
   - Yes: Free Access
Current steps

• Formal promotion of ETDs and e-submission procedure
  – i.e. official letters, newsletters, mailing lists, web posting
• Pilot testing period (approximately six months) of IR for 2 faculties
• Evaluation, improvements
• Full functionality and coverage
  – 9 faculties
  – 42 depts.
  – 13,000 students, 4,000 post-graduate
Future plans

- Personalization
- Integration of DL collections and services
- Integrated-federated searching feature to all heterogeneous resources (*DL, IR, OPAC, etc.*)
- Full-text searching capability
- Automated metadata batch importing to DSpace
- Submission of *code* and *GUI* modifications to the DSpace development community
- Participation in the *NDLTD Union Catalogue* and *movement*
- *New content*, i.e. papers, technical reports
Contact info and short CVs

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