DISSEPTIONS AND THESES ON INSTITUTIONAL REPOSITORIES: A CASE IN JAPAN

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Background data: Japan

- 800,000 researchers in Japan (#3 in the world) --- including the His Imperial Majesty Emperor "AKIHITO" news

- 790,510 ISI journal articles 1996-2006 (#2 in the world)

- 744 universities in Japan
- 409 universities have Ph.D. awarding institutions
- 16,000 obtain Ph.D. a year
Current Dissemination of Dissertations in JAPAN
“Publish in Print”

Universities
Submit a hard copy

NDL
National Diet Library
451,843 (1923-March 2005)
dissertations held (1923-)
NDL-OPAC 287,325
bibliographies(1984-)

Send a hard copy

Ministry ordinance 1953, 1975
MEXT
Ministry of Education, Culture, Sports, Science and Technology

Ph.D applicants

metadata

378,269 bibliographies

NDI
National Institute of Informatics
Virtual Unavailability

- Printed full-text dissertations held in
  - The university awarding the degree
  - And the National Diet Library (NDL)

- Unhappy facts
  - Poor accessibility to bound copies
  - Not available in the national union catalogue
  - Only partial photocopy

PUBLISHED
“GRAY LITERATURE”.
HALL of SHAME to opposed to FAME

- Virtually impossible to find and use dissertations
- Orphaned and unsearchable abstracts
- ETD in DL (Digital Library; electronic library) in 1990s did not facilitate usage of dissertations
  - Lack of interoperability
A Fresh Restart

1. NII’s Cyberscience infrastructure (CSI)
   - Next-generation high-speed network, called SINET (Launched on June 1 2007);
   - Research grid initiative called NAREGI;
   - Public key infrastructure and authentication system initiative (PKI);
   - Academic digital contents projects (NII-IRP).

2. Universities launch institutional repositories

3. Dissertations are interested

4. Some dissertations are heavily used
©Next-generation content infrastructure
Enforcement of formulation, assurance, and dissemination of scholarly contents under close connection among NII and universities

Social contribution
Scholarly community
International contribution

Dissemination
CSI (Cyber Science Infrastructure)
Network + Contents + research alliance

NII
Scholarly contents
Universities

Collaboration
Digital repositories

NII-REO
NII-ELS
KAKEN
CAT
Springer, OUP...
Journal articles
Reports of Grant-in-aid research
Book and journal indices
IR portal: Metadata From IRs

Dissemination
Accumulation
Activation

Output of Academic activities
- Book and journal articles
- Dissertation
- Project reports
- Educational material
- Patent
- Software
- Scientific DB
- Cultural asset DB etc

Joint introduction of library consortium and NII
Digitization
Crawling
harvesting

Scholarly publishers
Academic societies
web
Media

secure
44 IR in Japan (70+ in early 2008)
Accumulate more than 281,000 items

The number of IR continues increasing!
28 universities prepared e-theses for IR

4,469 full-text dissertations
  - 1% of all dissertations published in Japan in past

15,566 dissertation abstracts

370 appraisals of dissertations

Metadata is in the process of standardization
  - Japanese dissertations metadata description documented by Hokkaido University based on the ETD-MS

JuNli+ URL: http://juniiplus.csc.nii.ac.jp/
  - Testbed site / Only Japanese
Dissertation wanted

Researcher survey, Hokkaido University
- 73.4% want dissertations by other researchers
- 85.1% willing to have own dissertation read
- 78.3% want e-dissertation
  - 46.5% positive on institutionalization
- 57.6% want to deposit dissertation on IR

Marketing research on electronic dissertation
URI: http://hdl.handle.net/2115/18639
(Jan 2007)

HUACAP: Hokkaido Univ.’s IR
HALL OF FAME

Ando, Taeko

- "On-Chip Tensile Testing and Fatigue Testing Method of Thin-Film Materials"
- in Japanese

Usage on Nagoya Repository

- PDF download: 1079
- Metadata access: 154
- May 2007 only: 123 DL, 13 metadata access

URI: http://hdl.handle.net/2237/6376
Toward ETD availability in the future

- NII, MEXT, NDL, and associations of university libraries began discussion on ETD-related issues
  - Long-term preservation of ETD
  - Possible amendments of degree rules to accept (or even mandate) electronic deposit of dissertations to universities and/or NDL
  - Feasibility of digitization of past dissertations
Future dissemination of dissertations in Japan

Institutional Repositories

E-submit

Metadata

IR

Harvesting

Harvesting

NDL
National Diet Library

long-term preservation

Full text & Metadata

Ph.D applicants

Ministry ordinance

MEXT
Ministry of Education, Culture, Sports, Science and Technology

Metadata

High-quality service

National Institute of Informatics