Institutional Repository in Japan

“Standing on the Shoulders of Digital Giants”
International Symposium on Institutional Repositories, e-Science and the Future of Scholarly Communication
Session 3: The Challenge of Digital Resources for Higher Education

Yoshito Itoh
(Director of the Nagoya Univ. Library)

No university with no institutional repository can bear social accountability
An institutional repository will be “must-have” like a university website today
Outline

1. The present of institutional repositories in Japan
   - Governmental policy on scholarly information infrastructure
   - Activities of university libraries
   - Cyberscience infrastructure

2. Current situation of NAGOYA Repository
   - Place within Nagoya University
   - Collaboration with in-campus organizations
   - Marketing activities and problems
   - Researcher Community
   - Interuniversity collaboration

Policies for scholarly information infrastructure

Mar 2002

Digital research infrastructure WS, Information science and technology panel, Committee of research plan and evaluation, Science Council MEXT

On enhancement of infrastructure for scholarly information (Summary)

- Improvement of dissemination of scholarly information functionality of universities
- Urgent need for mechanism of systematically dissemination scholarly information with a view to directly get university’s research results to the population
Promotion of institutional repositories and scholarly dissemination from universities

Universities as the most resourceful research institutions must put stress on active dissemination of their research results in respect of both enhancing research and education activities and improving scholarly communication and contribution to society.

Future developments for scholarly communication (4) Approaches to open access

Promote institutional repositories in research oriented institutions as new means of scholarly communication shall be encouraged in collaboration with scholarly societies in view of strengthening not only better scholarly dissemination but improved institutional repository.
Governmental policy on scholarly information infrastructure  4

Science and Technology Basic Plan, 3rd Term

Mar 2002  Mar 2006  March 28 2006  Cabinet approval

Improvement of research information Infrastructure

Encourage digital archiving of scholarly journals for disseminating of research information as assets of the country.

Disirably, articles published for the purpose of making research from public funding public must be available online for free after a certain embargo period.

Activities of university libraries  1

- New trends of digital libraries
  - interface among information sources and users with a high additional value
    WG of committee on advanced information libraries, JANUL (May 2003)
  - Enhancement of dissemination of in-campus information via institutional repositories
    - Institutional repositories are to be implemented mainly in university libraries in order to strength the information dissemination function of universities
Activities of university libraries 2

- An implementation of institutional repository software
  - June 2004-March 2005 (NII)
  - Purpose
    Accumulate experiences on implementation and operation of IR via research on existing institutional repositories and experimental operation of IR software
- 6 Partners
  Hokkaido University, Chiba University, Tokyo University, Tokyo Gakugei University, Nagoya University, and Kyushu University

Next generation content infrastructure

Social contribution  Scholarly community  International contribution

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

Assurance
Accumulation of achievements
Digital repositories
Collaboration

Socially relevant contents
Universities
Academic activities
- Book and Journal Articles
- Dissertation
- Educational material
- Software
- Scientific DB
- Cultural asset DB etc.

Academic publishers  Academic societies  web  Media

Joint introduction of library consortium and NII
Digitalization
Harvesting
Commissioned project 2005

- Partners selected on the basis of past achievements and concrete planning concerning institutional repositories
- Partners (19 universities)
  - Hokkaido, Tohoku, Tsukuba, Chiba, Tokyo, TIT, Tokyo Gakugei, Kanazawa, Nagoya, Kyoto, Osaka, okayama, Hiroshima, Yamaguchi, Kyushu, Kumamoto, Nagasaki, Waseda, Keio

Project extended (2006)

- Basic concepts
  - Two goals
    - Nationwide promotion of institutional repositories
    - Innovative research and development
- Two areas of operation
  - Area 1 (Implementation and operation of institutional repositories)
  - Area 2 (Innovative research and development)
- Result of selection process
  - 57 universities are accepted
  - 22 R&D projects approved
Repositories in Japan

- 23 repositories are working (as of December 12)
  - [http://www.nii.ac.jp/irp/info/list.html](http://www.nii.ac.jp/irp/info/list.html)
  - Hokkaido, Tsukuba, Tokyo, Tokyo Gakugei, Chiba, Nagoya, Mie, Kanazawa, Kyoto, Osaka, Kobe, Okayama, Hiroshima, Yamaguchi, Kyushu, Nagasaki, Kumamoto, Keio, Waseda, Kanto Gakuin, Ritsumeikan APU, Okinawa Kokusai, JETRO

Activities in Nagoya University
Current situation of NAGOYA Repository

Contents

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<tr>
<th>Type</th>
<th>Count</th>
<th>Type</th>
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As of Dec 7 2006

Usage: NAGOYA Repository

Visits
(10/1/2006-11/30/2006)

Average 161/day
max: 294 min: 75
Usage: NAGOYA Repository

- Page views
  (10/1/2006-11/30/2006)
  
  Average 596/day
  max: 1,712  min: 142

Usage: NAGOYA Repository

- Geo Map Overlay
  Access from worldwide
Usage: NAGOYA Repository

◆ Referring source
(10/1/2006-11/30/2006)

70% from Google or Yahoo

Source [Medium]
- [51.54% Google]
- [17.77% Yahoo]
- [13.34% Others]
- [6.49% Misc.]
- [7.19% Direct]

Usage: NAGOYA Repository

◆ # of downloads (Feb-Nov 2006)

Total 113,619

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<th>Mar</th>
<th>Apr</th>
<th>May</th>
<th>June</th>
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Usage: NAGOYA Repository

◆ # of downloads
(Feb-Nov 2006)

Nov 2006
26,170

0 5,000 10,000 15,000 20,000 25,000 30,000
Feb-06 Mar-06 Apr-06 May-06 Jun-06 Jul-06 Aug-06 Sep-06 Oct-06 Nov-06

Misc.
Learning material
Bulletin articles
Thesis
Journal articles

Usage: NAGOYA Repository

◆ summary
◆ 160 person, 600 page views / day
◆ 3.8 pages/person on average
◆ Southeast Asia, north America, and Europe as well as Japan
◆ More than 70% come via search engines (Google / Yahoo!)
◆ More than 10K downloads a month
Top-down

Place within Nagoya University

Open to public on Feb 28, 2006

President Hirano of Nagoya University, greeting in symposium (Mar 9, 2006)
Place within Nagoya University

- President’s greetings, Symposium
- Institutional repository at Nagoya University is a university-wide activity to digitally accumulate, preserve, and disseminate scholarly outputs
- For content enhancement, not only collaboration of all departments with the university library, but more importantly, willingness of researchers to make their research outputs publicly accessible

University-wide operation

- University-wide = necessary for perpetual stewardship
- Presidential briefing 2005/11/29
- Board briefing 2005/12/20
Significance for university

- Emphasize the strength of Nagoya U
- Social Accountability

University-wide operation

Place within Nagoya University (a big picture)
Place within University (Executive level)

- **President Board**
  - As a university-wide operation

- **University Library**
  - Library studies

- **CIO** Information Management Headquarters

- **Office of Planning and Evaluation**

- **Collaboration**

- **Tie-up**

- **NAGoya Repository**
Collaboration with in-campus organizations

- University Library Studies
  = System development & Support
  - Eco-Collection database
  - AKF: Academic Knowledge Factory
Collaboration with in-campus organizations

◆ Information Technology Center
  = System development & support

◆ PLUM
◆ Nagoya Univ. ID system
  (Authentication)

Collaboration with in-campus organizations

◆ Center for Information Media Studies
  = Research and development

◆ Nagoya University Open Course Ware
  LOM = Learning Object Metadata
  NIME (National Institute of Multimedia Education) LOM
Collaboration with in-campus organizations

- The Office of Planning and Evaluation
  Nagoya University Profiles of Researchers

Library → Knowledgebase → Profiles of Researchers → Office of Planning and Evaluation → Library

(<Bottom up>)
Marketing activities

- Departmental briefing
  - 574 faculty members have attended
  - (19 meetings since 2006.2.1)
  - 20-30 min before department meeting
  - Explanation by Director of University Library and library staff
    - What is institutional repository?
    - Significance for university, researchers, and scholarly communication
    - Motivation for item registration
  - Q and A

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Marketing activities: Feb-Jul 2006

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<th>学部</th>
<th>開催場所</th>
<th>備考</th>
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<td>経済学部・経済学研究科</td>
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http://ir.nui.nagoya-u.ac.jp/pub/koho/IR_setumeikai.html
Problems

- Researchers understand but few registrations
- Author versions are often lost
- Nervous on different appearances and contents
- Con: faculty evaluation

FAQ

- We do not want to have files publicly available if they are different from published version. Only published versions are research output.
- Redundant PDF copies appear. It is not cost effective.
- Researchers are professionally trained to find primary information. Then repositories are for private sectors, not for university researchers.
- It is not cost effective that each university operates an institutional repository.
- We want to publish our research output as books. We do not want to register them if institutional repositories work against book-form publication.
Researcher community

Initial depositors

- Allow IR deposit of files on personal webpages.
- Mention to NAGOYA Repository on their websites
- Propose e-submission of theses at department meetings

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Thank you for your briefing on institutional repository. The idea impressed me.

Some PDF of my papers are available on the web server of my office.

Please deposit them if there is no problem. I will make links to your repository from my website.
Researcher community

- Mention to NAGOYA Repository on their websites
  - Links with handle from the paper list

  August 18 (Fri.), 2006
  Deposited the following papers with permission of ΔΔ society. Near xxx x xxx x xxx x xxx x Annals of the ... [Red hyperlink: http://hdl.handle.net/2237/****]

  August 16 (Wed.), 2006
  Link from my paper list to Nagoya Repository

  August 11 (Fri.), 2006
  Got a completion notice of Nagoya Repository deposit. They are helpful. They negotiated with OOOO.

Researcher community

- Forming a community of IR-friendly researchers to enhance deposits
- Forming a community of hundreds of researchers to support IR
Significance for researchers

- Researchers can disseminate their own outputs to the world
  - More access, more visibility cited 5.6 times more in physics
  - All outputs of a researchers will become searchable and accessible when more data are accumulated

Significance for researchers

- University stewards digital files for the next generation

- Permanent access

URL: http://hdl.handle.net/2237/4377

NAGOYA Repository  Paper number
Problems

- Copyright permission
  - Too much care of publishers and academic societies
  - Paper list becomes not comprehensive if some are not permitted
  - Time consuming process for permission
  - Contacts to coauthors are sometimes difficult

Problems

- Publishers and academic societies
  Copy-right transfer is common. So publishers and societies are in charge of permission, not authors.

  I published my dissertation as a book this January. It is not polite to the publisher that I deposit the file to IR. I will consider to deposit it 3 years later.

  IEEE holds the copyrights of papers published by IEEE. I believe that authors can personally distribute a copy, but universities cannot, since nobody will buy a paper from IEEE. Please doublecheck.
Copyright policies

- Publishers out of Japan
  - SHERPA
    Publisher copyright policies & self-archiving
    http://www.sherpa.ac.uk/romeo.php
  - Investigation of copyright policies on the websites of publishers and academic societies
  - Hearing if unclear or unable

Copyright policies

- Publishers in Japan
  - JANUL IR support website
    http://www.tulips.tsukuba.ac.jp/ir/
    A quick report on copyright
  - Investigation of copyright policies on the websites of publishers and academic societies
  - Hearing if unclear or unable
    ※intended to enhance clear copyright documentation
Copyright policies

- Publishers
  - investigation results
    - OK for publishers version
      IEEE・AIP・INFOSTA・IPSJ
    - Individual permission・・IEICE
    - Under consideration・・NLP・JSPE…
    - No reply・・Astronomy
    - No permission・・IEE・JSPE

Publishers’ attitudes toward IR

- 75% of publishers and 93% of journals agree self-archiving outside of Japan

※ Most permit author version, while some permit publisher version.

- Domestic journals: under investigation by JANUL
  Many publishers are under considerations
- Self-archiving with author permission only is OK if there is no documented copyright condition (e.g. proceedings of international conferences)
Significance in scholarly communication

- Commercialistic publishers lead scholarly communications

Researchers should play the main role!

High pricing

Problems

- Summary
  - Researchers should sufficiently understand copyright issues
  - Libraries provide and update copyright information
  - Libraries negotiate with publishers on behalf of authors

Objections are better than ignorance
Ongoing content collection

- Dissertations submitted to graduate school of information science
- Deposit request and agreement form are distributed at dissertation orientation
- Electric files of dissertations are forwarded to the university library

Library
Graduate School of Information Science

NAGOYA Repository
Cooperation
Interuniversity collaboration

- CSI operation, area 2: innovative research and development

- Development of link resolver ready system

  Hokkaido (main)
  Tsukuba, Chiba,
  Kyushu, Nagoya

Inter-university collaboration

- Development of link resolver ready system

  **AIRway** (Access path to Institutional Resources via link servers)

  - More access counts to institutional repositories
  - More visibility
  - Metadata standard and system implementation

2006/10/25  AIRway Mailing List

>> AIRway本番用サーバを立ち上げました。
>> [http://airway.lib.hokudai.ac.jp/airway/index.jsp](http://airway.lib.hokudai.ac.jp/airway/index.jsp)
>> 現在、HUSCAPとNAGOYA Repositoryのデータが入っています。
Inter-university collaboration

- Meetings of IR staff in national universities in Tokai area
- Toward collaboration in the area
- Sharing experiences of Nagoya University
  NAGOYA Repository Labs. (website)
  http://info.nul.nagoya-u.ac.jp/pubwiki/

- CSI operation symposium in Tokai area
  1. UPKI 9/22
  2. IR 11/8
  3. UPKI and grid computing 12/15