Institutional Repositories in JAPAN

2013/3/21@CJM/NCC joint program

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NII Institutional Repositories Program

1. **Funding**
   - CSI-commissioned Program
   - *CSI: Cyber Science Infrastructure*

2. **Interoperability**
   - Portal services

3. **Community**
   - Training support etc.

4. **System**
   - JAIRO Cloud with WEKO
CSI-commissioned Program

  - Area I: Expanding IRs and creating contents
  - Area II: Building new services through collaboration among IRs

- **3rd Period (FY2010-2012)**
  - Area I: Content creation for new IRs
  - Area II: Research and development
  - Area III: Support for community activities

### Number of commissioned organizations/projects

<table>
<thead>
<tr>
<th>Area</th>
<th>1st Period</th>
<th>2nd Period</th>
<th>3rd Period</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2005</td>
<td>2006</td>
<td>2007</td>
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<tr>
<td>I</td>
<td>19</td>
<td>57</td>
<td>70</td>
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<tr>
<td>II</td>
<td>2</td>
<td>22</td>
<td>14</td>
</tr>
<tr>
<td>III</td>
<td>-</td>
<td>-</td>
<td>-</td>
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</tbody>
</table>
System interoperability

- DATA PROVIDERS
- NII (SERVICE PROVIDERS)

IRDB

OAI-PMH

Search

Contents Stats

Quality Control
(Full-text only)

< junii2 >
Community formation

 CSI Conference etc.

Human Resources

Support for the training of new personnel in charge of IRs conducted by DRF (Digital Repository Federation) - CSI Area III

+ Seminar for JAIRO Cloud users

2013/6/6-7@NII

http://www.nii.ac.jp/irp/event/
List of Domestic IRs

NII Institutional Repositories Program

Current IRs

Current IRs in Japan

2. Hokkaido University of Education: Hokkaido University of Education Repository (Japanese)
3. Muroran Institute of Technology: MuroranIT Academic Resource Archive (Japanese)
4. Otaru University of Commerce: Bansai - Otaru University of Commerce Academic Collections
5. Obihiro University of Agriculture and Veterinary Medicine: Obihiro University of Agriculture and Veterinary Medicine Academic Repository (Japanese)
6. Kitami Institute of Technology: KITER - Kitami Institute of Technology Repository (Japanese)
7. Asahikawa Medical College: AWCER - Asahikawa Medical College Repository
8. Housaki University: Housaki University Repository for Academic Resources (Japanese)
9. Iwate University: Iwate University Repository (Japanese)
10. Tohoku University: TOUR - Tohoku University Repository
11. Aizu University: AIR / Aizu University Institutional Repository System
12. Yamagata University: YU Campus Repository
13. Fukushima University: FUKURO - Fukushima University Repository (Japanese)
14. Ibaraki University: IBORKE Repository Ibaraki
15. University of Tsukuba: Tsukuba R (Japanese)
16. National University Corporation Tsukuba University of Technology: NTUT Repository (Japanese)

http://www.nii.ac.jp/irp/en/list/
Regional Shared Repositories

1. YOU-Campus Repository (Yamagata)
2. AKAGI (Academic Knowledge Archives of Gunma Institutes)
3. SUCRA (Saitama United Cyber Repository of Academic Resources)
4. IYOKAN (Institutional Repository : the EHIME area)
5. O-AIR (Okayama Academic Information Repository)
6. Hirosaki Regional Repository
7. NiRR (Niigata Regional Repository)
8. CRFUKUI (Community Repository of Fukui)
9. HARP (Hiroshima Associated Repository Portal)
10. YSHIN (Yamaguchi prefecture area Scholarly Hoop of Integrated Navigator)
11. KARN (Kagoshima Academic Repository Network)
12. ORION (Okinawa Repository Integrated Open-Access Network)
   and more…
Number of organizations with IR

322 org
International Comparison

Japan is in the 4th with 138 IRs

Proportion of Repositories by Country Worldwide

- United States (396 = 18%)
- United Kingdom (210 = 9%)
- Germany (165 = 7%)
- Japan (138 = 6%)
- Spain (97 = 4%)
- Poland (74 = 3%)
- France (71 = 3%)
- Italy (70 = 3%)
- [93 Others (1036 = 46%)]

Total = 2257 repositories

OpenDOAR 01-Feb-2013

Open DOAR: Directory of Open Access Repositories
http://www.opendoar.org/ (2013/02/01)
Number of Contents

1 mil. full-texts

http://irdb.nii.ac.jp/analysis/index_e.php (Last accessed: 2013/02/01)
### Ratio of full-texts

<table>
<thead>
<tr>
<th>Content Types</th>
<th>Number of Records</th>
<th>Ratio of Full-text</th>
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</thead>
<tbody>
<tr>
<td>Journal Article</td>
<td>327,322</td>
<td>55.4%</td>
</tr>
<tr>
<td>Thesis or Dissertation</td>
<td>80,841</td>
<td>58.5%</td>
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<tr>
<td>Departmental Bulletin Paper</td>
<td>639,107</td>
<td>88.3%</td>
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<tr>
<td>Conference Paper</td>
<td>88,700</td>
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<tr>
<td>Presentation</td>
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<tr>
<td>Book</td>
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<tr>
<td>Technical Report</td>
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<td>Research Paper</td>
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<tr>
<td>Article</td>
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<tr>
<td>Preprint</td>
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<td>91.2%</td>
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<tr>
<td>Learning Material</td>
<td>8,433</td>
<td>37.3%</td>
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<tr>
<td>Data or Dataset</td>
<td>52,659</td>
<td>99.5%</td>
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<tr>
<td>Software</td>
<td>31</td>
<td>80.6%</td>
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<tr>
<td>Others</td>
<td>159,456</td>
<td>93.2%</td>
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<tr>
<td>SUM</td>
<td>1,433,459</td>
<td>74.2%</td>
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http://irdb.nii.ac.jp/analysis/index_e.php  (Last accessed: 2013/02/01)
Current Trends

Expanded E-publication platform

- Long-tail Distribution
- Limited Content types
- Sustainable Deposit

Accumulated number of contents vs. IRs ranked by the number of contents

Top 5: 30%
Top 10: 40%

Number of IRs vs. Ratio of Kiyo in each IR

Incremental number of contents vs. time

Kiyo
J Article

Accumulated number of contents

Limited Content types

Sustainable Deposit
Current Trends

Weak Correlations between number of contents and...

Duration of operation

Education/Research activity

University Size

<table>
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<tr>
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<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
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<td>Over 10,000</td>
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IR activities vary from university to university
Reports in English

▪ Phase 1 Report
“New Horizons in Academic and Scholarly Communication”


▪ Phase 2 Report


▪ Phase 3 Report will be released in 2013
Almost all national universities have their own IRs, while the implementation rate of other public/private universities hovers at 20-30%.
What is JAIRO Cloud?

Outline
- Limited resources and less technical knowledge hamper implementation of IR especially in small universities.
- JAIRO Cloud provides a shared instance of IR system on the virtual server hosted by NII since April 2012.

Service Architecture
- NII offers easy-to-navigate IR platform with free-of-charge in initial stage.
- An easy-to-use repository module “WEKO” developed by NII, is used in the service.

Target
- More 200 IRs by the 2017 fiscal year
Service Architecture
“JAIR Cloud” Community

フォーラム（参加制限用）を利用して看護に

・参加権限付与の、ユーザー方法に関するフォーラムです（現在、ログインが必要です）。
・過去のフォーラムやチャットに閲覧の条件がないがご確認ください。
・質問は1件ごとレスを送ってください。

RSSサビタリ该项目一覧

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<td>1</td>
<td>2012/10/23</td>
</tr>
</tbody>
</table>

https://community.repo.nii.ac.jp/
Days from setup to release

Min. 7 days

(Avg. 101 days)
## Participation situation

<table>
<thead>
<tr>
<th>Total</th>
<th>Types of Institutions</th>
<th>Publicly-released</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>National</td>
<td>Public</td>
</tr>
<tr>
<td>91</td>
<td>3</td>
<td>8</td>
</tr>
</tbody>
</table>

As of 2013.2.28 (applications are being accepted anytime)
Mandatory OA for ETDs

Partial amendment of regulation for doctoral degree (2013.4.1-)

Contents: Summary and Full-text (15,000/year)
Media: Univ. IRs / JAIRO Cloud, otherwise NDL
Search: NDL Search, JAIRO etc
Archive: Univ. and NDL (collection of full-texts)
Exceptions: Patent, privacy and so on...

For details, see the next presentation by NDL
ETDs data flow

IR Infrastructure (JAIRO Cloud)

Crawling by NDL (Revised Junii)

Univ.

Full Text

Univ. IR

JAIRO Cloud

Harvesting Metadata

Crawling Full Text

Harvesting Crawl URLs

JAIRO/IRDB

NDL
Near Future

1. Further growth with JAIRO Cloud (Enhanced WEKO)

2. Expanded E-publication platform
   - Kiyo, ETD and more…
   - Not only for Univ. but…

3. Steadily “Planting the Green Seeds”
Thank you!

ir@nii.ac.jp

Library Liaison Team
Scholarly and Academic Information Division
Cyber Science Infrastructure Development Department
National Institute of Informatics

http://www.nii.ac.jp/irp/en/