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<td>Author(s)</td>
<td>ADACHI, Jun (National Institute of Informatics, Japan)</td>
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Osaka University Knowledge Archive: OUKA
NII’s Initiative for Institutional Repository over CSI:
Retrospect of 2006-2007 and Prospect of Phase II

DRF International Conference
Osaka, January 30, 2008

Jun Adachi
National Institute of Informatics
CSI Initiative

- Cyber Science Infrastructure for e-Science

- “Innovative scholarly information infrastructure” that incorporates and utilizes the scientific facilities such as supercomputer at universities and research institutions, scientific software, digital resources and databases, and human resources over super high-speed network.

National Institute of Informatics

Concept of CSI

CSI: Cyber Science Infrastructure

- Development of human resources and framework
- Virtual research organization
- Live collaboration
- Platform to secure and disseminate scholarly and academic information
- Development of a research grid as the basis of distributed computing environment
- Development and practical development of an authentication system in universities
- Establishment of Next-Generation High Speed Network and Academic Information Infrastructure thru cooperation between NII, IT center, university libraries and other organizations

- Set up organization for science network operations and coordination (Feb, 2005)
- Set up organization for scientific resources operations and coordination (Oct, 2005)

Industrial and social contributions

International contributions

Development of research resources /
Dissemination of achievements from universities

National Institute of Informatics NII
Current Major Efforts in CSI

- Next-Generation Science Information Network: SINET3,

- University Public Key Infrastructure: UPKI for sharing information and securing information access in universities,

- Grid Middleware for high performance computing: NAREGI

- Next-Generation Scholarly Information Infrastructure
Next Generation Scholarly Information Infrastructure

Social Contribution

Scholarly Communities (Researchers, academic societies, etc.)

International Contribution

Make Available

CSI (Cyber Science Infrastructure)

Network + materials + joint research

Scholarly materials as common goods

NII

Institutional Repository Portal

NII-REO

NII-ELS

KAKEN

CAT

Springer, OUP, etc. ca.3.4million

Articles from societies or bulletins ca.2.9million

Reports of Grants-in-aid for scientific research ca.0.56million

Catalogs ca.94million

Universities

Institutional repositories

Linkage

Accumulation Of results

Activation

Materials

Books, Journals

Theses and dissertations, bulletins

Research project reports

Courseware

Patents, software

Science and statistical Databases

Cultural heritage

Collecting & Organizing

Jointly by library Consortia and NII

Digitalization

Crawling

Harvesting

Scholarly publishers [e-journal, e-books]

Academic societies [academic journals]

Web [resources in general]

Other [press release, etc]
Collaboration with University Libraries

- NACSIS-CAT/ILL
  - Establishment of union catalog databases and promotion of ILL (interlibrary loan system)
- Promoting dissemination of scholarly journals
  - Digitizing and providing research bulletins of universities
- Supporting institutional repositories
  - Support for the construction and the collaboration

Collaboration with Academic Societies

- Electronic Library Service (NII-ELS)
- International Scholarly Communication Initiative (SPARC Japan)
- Academic Society Home Village

Portal Service

- Scholarly and Academic Information Portal (GeNii)
CSI Initiative for IRs

- **Pilot project (FY2005):** 19 universities
  - To expand pioneering efforts to other universities

- **Full-fledged project (FY2006-2007)**
  - **Goals**
    - To expand nationwide installation of institutional repositories,
    - To boost innovative R&D
  - **Project areas**
    - Area 1 (construction and operation of institutional repositories)
    - Area 2 (innovative R&D)
  - **Competitive selection process**
    - Open call for proposals
Growth of IRs in Japan

Classified by the project participation period
Including non-partners

Pioneers:
- Chiba
- Hokkaido
- Waseda

13 IRs
April 2006

47 IRs
April 2007

71 IRs
End of Dec. 2007

Partners
- From 2004
- From 2005
- From 2006
- From 2007
- Others

Partners From 2004
Partners From 2005
Partners From 2006
Partners From 2007
Others
IRs by country

- IRs in the world: 1050
  - Japan as the fourth

Open DOAR: Directory of Open Access Repositories
Number of contents by resource type

As of November 21 2007
# of IRs 45
Total # of contents 189,912

- Journal articles 35,656
- Theses and dissertations 16,295
- Bulletin articles 104,480
- Conference papers 1,630
- Books 930
- Technical reports 416
- Research reports 5,540
- Preprints 45
- Presentation materials 445
- General articles 3,711
- Learning materials 158
- Data / database 400
- Misc 20,206
- Total 189,912

JuNii+ http://juniiplus.csc.nii.ac.jp/
CSI Initiative (FY2006 - 2007)

- Selection result in 2006
  - Area 1: 57 universities out of 77 (National: 47, Public: 0, Private: 10)
  - Area 2: 22 projects out of 30

- Interim evaluation of the 2006 activities
  - Good practices
    - Area 1: 8 universities
    - Area 2: 6 projects
  - Summary of the interim evaluation (March 2007, in Japanese)

- Selection result in 2007
  - Area 1: 57 universities continued, and additional 13 are selected out of 24 applications (National: 57, Public: 0, Private: 13)
  - Area 2: Reorganization of 2006 projects (from 22 to 14)
### CSI initiative: Area 2 projects (2007)

<table>
<thead>
<tr>
<th>Area 2 projects (2007)</th>
<th>Leader (Collaborators)</th>
</tr>
</thead>
<tbody>
<tr>
<td>○ Activation of IR community (Digital Repository Federation)</td>
<td>Hokkaido University (Chiba University, Kanazawa University)</td>
</tr>
<tr>
<td>○ Access to institutional resources via link resolvers (AIRway)</td>
<td>Hokkaido University (Tsukuba University, Chiba University, Nagoya University, Kyushu University)</td>
</tr>
<tr>
<td>Faculty publication database and institutional repositories</td>
<td>Kanazawa University (Kyushu University, Waseda University)</td>
</tr>
<tr>
<td>○ Sharing copyright policies of academic societies in Japan (SCPJ)</td>
<td>Tsukuba University (Chiba University, Kobe University)</td>
</tr>
<tr>
<td>Development of Tokyo Tech Research Repository (T2R2)</td>
<td>Tokyo Institute of Technology</td>
</tr>
<tr>
<td>○ Integrated search of on-campus academic resources</td>
<td>Kyushu University</td>
</tr>
<tr>
<td>Crosswalk of various metadata</td>
<td>Nagoya University</td>
</tr>
<tr>
<td>○ Evaluation methods of institutional repositories</td>
<td>Chiba University (Mie University)</td>
</tr>
<tr>
<td>Integrated information system of IR, learning, and education</td>
<td>Mie University</td>
</tr>
<tr>
<td>Community creation via co-evolution of researcher and information</td>
<td>Chiba University (Kyushu University)</td>
</tr>
<tr>
<td>E-publication system and institutional repositories</td>
<td>Waseda University (Hiroshima University, Nagasaki University)</td>
</tr>
<tr>
<td>Author authority directory</td>
<td>Nagoya University</td>
</tr>
<tr>
<td>○ XooNIts Library modules</td>
<td>Keio University</td>
</tr>
<tr>
<td>User navigation with topic maps</td>
<td>Hokkaido University</td>
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</table>

Red indicates 2006 good practices
Phase I: Achievements and Lessons

Achievements
- Area 1: Increase of IRs and their contents
- Area 2:
  - Clarification of technical and institutional problems
  - Establishment of librarian community
    - Digital Repository Federation
    - Society Copyright Policy Japan
      » 194 policies as of Jan 2007, 936 as of July 2007

Lessons
- Some projects for system development do not have apparent propagation to other institutions
- How to keep sustainability
Digital Repository Federation


Digital Repository Federation

News! 第3回DRFワークショップ「日本の機関リポジトリの今2007」の参加受付を開始しました。

今年度の次世代コンテンツ基盤構築推進事業の機関2では、北海道大学の「機関リポジトリの活性化」が採択されています。これには千葉大、金沢大が連携大学として参加します。

この「活用化」のテーマでは、参加大学が相互に情報交換・共有し、各大学で利用の活性化が進むことが期待されています。プロジェクト型のシンポジウム活動を通じて、リポジトリの活用のための相互交流的な活動方式や記録管理の取り組みを模索することを目指しています。また、こうした活動により、COI事業終了後もリポジトリを維持・拡大していくための「連携」のモデルを構築したいと考えています。

また、この3大学による「連携」活動に、Digital Repository Federation（略称DRFフェデレーション）という名称を与えて、コンソーシアム活動に「連携」のあり方を考えています。

recent(8)

2007-10-19
Digital Repository Federation
2007-10-10
リンク集
2007-10-01
Documents
2007-09-18
Keywords
MenuBar
2007-09-14
DRF3
2007-09-13
Digital Repository

公開メーリングリスト

機関リポジトリの設立・運営に関する公開メーリングリスト

これからの Picks

- DRF3 第3回DRFワークショップ「日本の機関リポジトリの今2007」（平成19年11月9日（金）回書館総合展示場）参加募集中
Society Copyright Policies in Japan

学協会の著作権ポリシーを調べる

学協会名から検索

(学協会名の一部から検索できます。and/or検索はできません)

雑誌名から検索

(雑誌名、ISSN、ヨミの一部から検索できます。and/or検索はできません)

ポリシーごとの一覧表示

- **Green** …査読前・査読後のどちらでもよい
- **Blue** …査読後の論文のみ認める
- **Yellow** …査読前の論文のみ認める
- **White** …リポジトリへの保存を認めていない
- **Gray** …検討中・調査中・その他

現在、884件のデータが登録されています。そのうちGreenは30件、Blueは152件です。

関連リンク

- NI-FELSコンテンツの機関リポジトリへの提供許諾条件一覧… CNII

Go!
JuNii+: The portal of Japanese IRs

Federated search over all institutional repositories in Japan that are compliant with metadata format junii2

JuNii+ (Beta release: http://juniiplus.csc.nii.ac.jp/)

Search engines:
- Google Scholar
- Google
- OAIster
- Crawl/harvest

Institutional repositories

Fulltext

Harvesting

Journals articles will go to CiNii
Third-party evaluation

Positioning of institutional repositories initiative
- NII’s yet another initiative with high public interests to strengthen scholarly infrastructure for universities after CAT/ILL
- NII is considered suitable organization to lead IR initiative and foster expertise

Questionnaire results
- Recognition of IR
  - Users: 85% recognize (n=163)
  - Librarians: Almost 100% recognize (n=469)

- Progress in introduction of IR (n=469)
  - Already opened: 14.6%
  - Planning to install: 13.1%
  - Interested: 58.2%

Source: User study of cyberscience infrastructure provided by an inter-university research institute---plan and design for the next-generation CSI (final report, in Japanese) September 2007
1. Budget for sustainable activities
   - University administration’s support
2. Nationwide expansion
   - Expansion towards small universities
   - Increase of the number of IRs
   - Shared service for repository
3. Quality control of IRs
   - Usability of IRs (content quality)
   - Review of R&D projects
4. Resource policy of IRs
   - Priority of resource types
5. Support for IR manager community
   - Digital Repository Federation
   - Society Copyright Policy Japan
6. E-science
   - E-science and institutional repositories
Towards FY2008

- **Basic framework**
  - Further strengthen the initiative in Phase II (FY2008-2009)
  - NII will invest digital content in priority resource types, such as dissertation, project reports and technical reports
  - Invite innovative R&D

- **Keys to Phase II**
  - Emphasis on sustainable and self-supported activities
  - Area 1 will focus on priority resource type contents
  - Area 2 will stress projects with wider effects and innovative additional values