<table>
<thead>
<tr>
<th><strong>Title</strong></th>
<th>Kyoto University Research Information Repository: KURENAI</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Author(s)</strong></td>
<td>ONISHI, Masato</td>
</tr>
<tr>
<td><strong>Citation</strong></td>
<td>(2010)</td>
</tr>
<tr>
<td><strong>Issue Date</strong></td>
<td>2010-12-03</td>
</tr>
<tr>
<td><strong>URL</strong></td>
<td><a href="http://hdl.handle.net/2433/131960">http://hdl.handle.net/2433/131960</a></td>
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<tr>
<td><strong>Rights</strong></td>
<td>© 2010 Kyoto University Library Network</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Presentation</td>
</tr>
<tr>
<td><strong>Textversion</strong></td>
<td>author</td>
</tr>
</tbody>
</table>

Kyoto University
Kyoto University Research Information Repository: KURENAI

Overview

- Introduction of Kyoto University
- Current status of IRs in Japan
- History of KURENAI
- Special contents
- Collecting contents
- Collaboration with other services
- Public relations
- Usage analytics
Introduction of Kyoto University - History

- 1897 Founded as Kyoto Imperial University.
- 1899 Kyoto Imperial University Library
- 1947 Renamed Kyoto University.
- 2004 Partially privatized as national university corporation.
- 2005 Kyoto University Library Network

Introduction of Kyoto University - Organizations

- Graduate Schools (17)
- Faculties (10)
- Research Institutes (14)
- Centers (27)
- Organizations (6) Library Network (2005-)
- Kyoto University Library

(as of 2010)
Introduction of Kyoto University - Campus

- YOSHIDA (main)
- KATSURA
- INUYAMA (Primate Research Institute)
- UJI
- OTSU (Center for Ecological Research)

YOSHIDA -> KATSURA : 16km
YOSHIDA -> UJI : 18km

University Staff
- Teaching Staff 2,868
- Non-teaching Staff 2,556
- Total 5,424

Students
- Undergraduates 13,473
- Graduates 9,314
- Total 22,787 (as of May 1, 2010)
Development of number of IRs in JAPAN

- Jun. 2010: 183IRs
- Dec. 2006: 28IRs
- Increased 6 times!

Number of full-text items deposited in IRs in Japan

- Oct-2007: 737,643
- April-2007: 33,784

Source Data: NII Institutional Repositories DataBase Content Analysis
Number of items deposited in Japan IRs

NII Institutional Repositories DataBase Contents Analysis
[2010/10/31: Number of records ALL: 1,035,582, Full text 737,643]

<table>
<thead>
<tr>
<th>content types</th>
<th>Number of records</th>
<th>Ratio of full text</th>
</tr>
</thead>
<tbody>
<tr>
<td>Journal Article</td>
<td>240,811</td>
<td>47.2%</td>
</tr>
<tr>
<td>Thesis or Dissertation</td>
<td>49,743</td>
<td>54.4%</td>
</tr>
<tr>
<td>Departmental Bulletin Paper</td>
<td>455,162</td>
<td>86.6%</td>
</tr>
<tr>
<td>Conference Paper</td>
<td>59,206</td>
<td>18.6%</td>
</tr>
<tr>
<td>Presentation</td>
<td>8,801</td>
<td>32.5%</td>
</tr>
<tr>
<td>Book</td>
<td>18,660</td>
<td>47.3%</td>
</tr>
<tr>
<td>Technical Report</td>
<td>6,079</td>
<td>85.1%</td>
</tr>
<tr>
<td>Research Paper</td>
<td>17,396</td>
<td>87.4%</td>
</tr>
<tr>
<td>Article</td>
<td>39,499</td>
<td>82.2%</td>
</tr>
<tr>
<td>Preprint</td>
<td>337</td>
<td>90.5%</td>
</tr>
<tr>
<td>Learning Material</td>
<td>5,225</td>
<td>36.5%</td>
</tr>
<tr>
<td>Data or Dataset</td>
<td>13,587</td>
<td>99.0%</td>
</tr>
<tr>
<td>Software</td>
<td>8</td>
<td>25.0%</td>
</tr>
<tr>
<td>Others</td>
<td>121,068</td>
<td>92.3%</td>
</tr>
<tr>
<td>SUM</td>
<td>1,035,582</td>
<td>71.2%</td>
</tr>
</tbody>
</table>

Source Data: NII Institutional Repositories DataBase Content Analysis

History of KURENAI: 2006-2008

- Selected a repository system "DSpace" [Mar 2006]
- Test launched [Jun 2006]
- Released officially [Oct 2006]
- Presented the first seminar for IR [Dec 2006]
- Developed the operation guidelines [Jan 2007]
- Instituted a procedure for collecting dissertations (engineering) [Apr 2007]
- Provided metadata to NII [Jun 2007]
- Over 10,000 contents [Sept 2007]
- Second seminar for IR [Oct 2007]
- Collaborated with Kyoto University Press [Dec 2007]
- Published the “IPS Cell” paper on KURENAI [Feb 2008]
- Over 20,000 contents [Jul 2008]
- Accessible from CiNii [Oct 2008]
- Published “MANGA Kyoto University” on KURENAI [Oct 2008]
- Published the “Nobel Prize in Physics 2008” paper on KURENAI [Oct 2008]
History of KURENAI: 2009-2010

» 2009-2010

- Over 600,000 full-text downloads in 2008 [Jan 2009]
- Over 30,000 contents [Mar 2009]
- “Ranking Web of World Repositories” the 1st place in Japan, 24th place in the world [Jul 2009]
- Over 40,000 contents [Aug 2009]
- Retrospective digitization of 1,000 doctoral dissertations [Aug 2009]
- The 3rd SPARC Japan Seminar 2009 / DRFtech Kyoto [Sept 2009]
- Started collecting “Press release papers” [Sept 2009]
- Started “KURENAI update!” [Dec 2009]
- Relaunched KURENAI user interface [Jan 2010]
- Registered dissertation abstracts systematically [Jan 2010]
- Over 50,000 contents / Over 800,000 full-text downloads in 2009 [Feb 2010]
- Over 60,000 contents [Mar 2010]
- Over 70,000 contents [May 2010]
Number of full-text items deposited in KURENAI

Source Data: NII Institutional Repositories DataBase Content Analysis

Number of items deposited in KURENAI

NII Institutional Repositories DataBase Contents Analysis [2010/10/31: Number of records ALL: 97,170, Full text 84,368]

<table>
<thead>
<tr>
<th>content types</th>
<th>Number of records</th>
<th>Ratio of full text</th>
</tr>
</thead>
<tbody>
<tr>
<td>Journal Article</td>
<td>12,237</td>
<td>21.6%</td>
</tr>
<tr>
<td>Thesis or Dissertation</td>
<td>3,712</td>
<td>54.8%</td>
</tr>
<tr>
<td>Departmental Bulletin Paper</td>
<td>65,306</td>
<td>98.7%</td>
</tr>
<tr>
<td>Conference Paper</td>
<td>541</td>
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</tr>
<tr>
<td>Presentation</td>
<td>108</td>
<td>100.0%</td>
</tr>
<tr>
<td>Book</td>
<td>110</td>
<td>100.0%</td>
</tr>
<tr>
<td>Technical Report</td>
<td>1</td>
<td>100.0%</td>
</tr>
<tr>
<td>Research Paper</td>
<td>855</td>
<td>99.9%</td>
</tr>
<tr>
<td>Article</td>
<td>3,245</td>
<td>87.3%</td>
</tr>
<tr>
<td>Preprint</td>
<td>1</td>
<td>100.0%</td>
</tr>
<tr>
<td>Learning Material</td>
<td>8</td>
<td>100.0%</td>
</tr>
<tr>
<td>Data or Dataset</td>
<td>2</td>
<td>100.0%</td>
</tr>
<tr>
<td>Software</td>
<td>8</td>
<td>25.0%</td>
</tr>
<tr>
<td>Others</td>
<td>11,036</td>
<td>100.0%</td>
</tr>
<tr>
<td>SUM</td>
<td>97,170</td>
<td>86.8%</td>
</tr>
</tbody>
</table>

Source Data: NII Institutional Repositories DataBase Content Analysis
Special Contents - Collaboration with Publisher

* Collaborate with Kyoto University Press 京都大学学術出版会 in 2008

Special Contents - Famous Articles

* The Nobel Prize in Physics 2008
  > Dr. Toshihide Maskawa 益川敏英 (Professor Emeritus at Kyoto University)
  > Dr. Makoto Kobayashi 小林誠 (Professor Emeritus at the High Energy Research Organization)
  > Their 'Kobayashi-Maskawa Theory' (1973)

* iPS Cell
  > Prof. Shinya Yamanaka 山中伸弥 and his team succeeded, for the first time in the world, in generating iPS cells derived from mouse cells in 2006.
  > The generation of human iPS cells in 2007
Special Contents - MANGA Kyoto University

Kyoto University and Kyoto Seika University MANGA Project
Use MANGA to explain the research done at Kyoto University

http://hdl.handle.net/2433/91242
- Japanese version
- English version
- Chinese version
- Korean version

Collecting contents - Journal Articles

Collaborate with Graduate School of Engineering “Research DB”
1. Extract journal articles by KU authors from Web of Science every year
2. Check the records by laboratories
3. Request for permission
4. Check the publisher’s copyright policies in SHERPA/RoMEO and SCPJ*
5. Get publisher version from EJ, or author’s final version from author

efficiency and comprehensiveness

* SCPJ (Society Copyright Policies in Japan)
http://www.tulips.tsukuba.ac.jp/scpj/
Collecting contents - Journal Articles

- Newly published journal articles by KU researchers
  1. Extract journal articles by KU authors from Scopus every week
  2. Check the publisher’s copyright policies in SHERPA/RoMEO and SCPJ
  3. Request for permission
  4. Get publisher version from EJ, or author’s final version from author

- High-impact papers
  1. Collect papers on press releases in collaboration with university’s publicity office
  2. After deposit, add a link to University website

Quickness and effective promotion

Collecting contents - Departmental Bulletin Papers

1. Library executes an agreement with the editor
2. Digitization
   ▶ Back issue: digitize print journal on library’s budget
   ▶ Current issue: collect electronic files from publisher
3. Copyright
   ▶ comprehensive permission
   ▶ individual permission

KURENAI as digital publisher
E-Journals published by Kyoto University

Click

Over 90 titles
Contemporary and Applied Philosophy

2巻 (2010-2011) Open Journal Systems

目次

Collecting contents - Dissertations

★ Retrospective digitization project in 2007-2009
1. 35,000 doctoral dissertations
2. Authors with contact information: 3,373
3. Request for permission
4. Respondents: 1,300
5. Digitization: 1,000

★ Retrospective digitization project in 2010
- Collaborate with Alumni association of Department of Geosystem Engineering
- project under way
Collecting contents - Dissertations

★ A procedure of comprehensive deposit to KURENAI
  ➢ doctoral dissertations (engineering) [Apr 2007 - ]

Graduate Students
  application
  electronic ver., print ver.

Department
  collecting

Library
  stack
  repository

Collaboration with other services

★ Register "KURENAI" on IRs directories
  ➢ Open Archive Initiative (OAI)
    • 2006-
    • http://www.openarchives.org/
  ➢ NII(National Institute of Informatics) Current IRs in Japan
    • 2006-
    • http://www.nii.ac.jp/irp/en/list/
  ➢ Registry of Open Access Repositories (ROAR)
    • 2006/10-
    • http://roar.eprints.org/781/
  ➢ Directory of Open Access Repositories (OpenDOAR)
    • 2007/06-
    • http://www.opendoaor.org
Collaboration with other services

- Provide metadata to service providers
- Accessible through search engine

![Diagram showing data provider service provider and search engine integration]

**KURENAI**

**JAIRO: Japanese Institutional Repositories Online**

To get the detail of each IRs

Narrow Search by content types

Narrow Search by organizations
CiNii: NII Scholarly and Academic Information Navigator

- National Institute of Informatics
- Universities
- Japan Science and Technology Agency
- National Diet Library
- Related institutions

Metadata integration of bibliographic databases

Identification integration linking


IR cooperates with CiNii
Public relations

* Attend IR events & make brochure, poster

Public relations

* Interview authors
* KURENAI update! (blog)
* Twitter

Usage Analytics - Download Ranking 2009

<table>
<thead>
<tr>
<th>No</th>
<th>Type</th>
<th>Author</th>
<th>Title</th>
<th>Journal Title etc</th>
<th>Downloads</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Book</td>
<td>MANGA Kyoto University</td>
<td>Kyoto University MANGA Project</td>
<td></td>
<td>6,836</td>
</tr>
<tr>
<td>2</td>
<td>Bulletin paper</td>
<td>稲津, 雅弘</td>
<td>産業界の技術動向:ハイブリッド車の現状と今後</td>
<td>産業界の技術動向:ハイブリッド車の現状と今後</td>
<td>2,533</td>
</tr>
<tr>
<td>3</td>
<td>Book</td>
<td>京都大学人文科学研究所</td>
<td>三段時代の出土文学資料選</td>
<td>京都大学人文科学研究所</td>
<td>2,298</td>
</tr>
<tr>
<td>5</td>
<td>Bulletin paper</td>
<td>川原村, 敏幸</td>
<td>ミストCVD法とその酸化亜鉛薄膜成⻑への応用に関する研究</td>
<td>川原村, 敏幸</td>
<td>2,054</td>
</tr>
<tr>
<td>6</td>
<td>Dissertation</td>
<td>京都大学大学院情報工学研究科</td>
<td>ミストCVD法とその酸化亜鉛薄膜成⻑への応用に関する研究</td>
<td>京都大学大学院情報工学研究科</td>
<td>1,819</td>
</tr>
<tr>
<td>7</td>
<td>Book</td>
<td>川原村, 敏幸</td>
<td>「会社人間」の研究:組織コミットメントの理論と実際</td>
<td>京都大学大学院情報工学研究科</td>
<td>1,718</td>
</tr>
<tr>
<td>8</td>
<td>Conference paper</td>
<td>京都大学大学院情報工学研究科</td>
<td>京都大学大学院情報工学研究科</td>
<td>京都大学大学院情報工学研究科</td>
<td>1,533</td>
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<tr>
<td>9</td>
<td>Bulletin paper</td>
<td>川原村, 敏幸</td>
<td>高齢者の体力づくり (第17回健康科学公開講座)</td>
<td>高齢者の体力づくり (第17回健康科学公開講座)</td>
<td>1,525</td>
</tr>
</tbody>
</table>
### Usage Analytics - Countries and regions

#### User's source access countries for all repositories (2009)

<table>
<thead>
<tr>
<th>ARRIDE</th>
<th>CRF</th>
<th>HUSCAP</th>
<th>KURENAI</th>
<th>QIR</th>
<th>Tulips-R</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Japan</td>
<td>Japan</td>
<td>Japan</td>
<td>Japan</td>
<td>Japan</td>
<td>Japan</td>
<td>Japan</td>
</tr>
<tr>
<td>China</td>
<td>India</td>
<td>China</td>
<td>U.S.</td>
<td>China</td>
<td>China</td>
<td>China</td>
</tr>
<tr>
<td>India</td>
<td>China</td>
<td>India</td>
<td>India</td>
<td>India</td>
<td>India</td>
<td>India</td>
</tr>
<tr>
<td>U.K.</td>
<td>Ukraine</td>
<td>Germany</td>
<td>U.K.</td>
<td>Germany</td>
<td>Korea</td>
<td>Germany</td>
</tr>
<tr>
<td>France</td>
<td>Germany</td>
<td>Taiwan</td>
<td>Indonesia</td>
<td>Korea</td>
<td>Taiwan</td>
<td>France</td>
</tr>
<tr>
<td>Malaysia</td>
<td>Iran</td>
<td>Korea</td>
<td>France</td>
<td>France</td>
<td>Germany</td>
<td>Korea</td>
</tr>
<tr>
<td>Thailand</td>
<td>Saudi Arabia</td>
<td>France</td>
<td>Korea</td>
<td>Iran</td>
<td>France</td>
<td>Taiwan</td>
</tr>
<tr>
<td>Philippines</td>
<td>Canada</td>
<td>Canada</td>
<td>Taiwan</td>
<td>Taiwan</td>
<td>Iran</td>
<td>Indonesia</td>
</tr>
</tbody>
</table>


### Usage Analytics - Countries and regions

#### User's source access regions for all repositories (excluding Japan) [2009]

<table>
<thead>
<tr>
<th>Region</th>
<th>ARRIDE</th>
<th>CRF</th>
<th>HUSCAP</th>
<th>KURENAI</th>
<th>QIR</th>
<th>Tulips-R</th>
<th>Total Traffic</th>
<th>Traffic %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asia (without Japan)</td>
<td>9,382</td>
<td>5,591</td>
<td>62,063</td>
<td>158,504</td>
<td>54,873</td>
<td>21,305</td>
<td>311,718</td>
<td>47.2%</td>
</tr>
<tr>
<td>Europe</td>
<td>3,818</td>
<td>3,175</td>
<td>40,815</td>
<td>66,012</td>
<td>28,422</td>
<td>8,583</td>
<td>150,825</td>
<td>22.8%</td>
</tr>
<tr>
<td>North America</td>
<td>3,282</td>
<td>3,550</td>
<td>30,586</td>
<td>58,720</td>
<td>21,968</td>
<td>10,054</td>
<td>128,160</td>
<td>19.4%</td>
</tr>
<tr>
<td>South America</td>
<td>356</td>
<td>540</td>
<td>5,950</td>
<td>7,651</td>
<td>3,324</td>
<td>770</td>
<td>18,591</td>
<td>2.8%</td>
</tr>
<tr>
<td>Africa</td>
<td>934</td>
<td>676</td>
<td>5,387</td>
<td>15,715</td>
<td>5,766</td>
<td>1,543</td>
<td>30,021</td>
<td>4.5%</td>
</tr>
<tr>
<td>Oceania</td>
<td>466</td>
<td>355</td>
<td>3,108</td>
<td>6,179</td>
<td>2,801</td>
<td>642</td>
<td>13,551</td>
<td>2.1%</td>
</tr>
<tr>
<td>Unknown</td>
<td>34</td>
<td>39</td>
<td>4,509</td>
<td>1,769</td>
<td>849</td>
<td>140</td>
<td>7,340</td>
<td>1.1%</td>
</tr>
</tbody>
</table>

### Usage Analytics - Access path

**Non-Japanese users access path to IRs (Average) [2009]**

<table>
<thead>
<tr>
<th>Repository</th>
<th>Direct access</th>
<th>Through metadata page</th>
<th>Through search-engines</th>
<th>Through other pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARRIDE</td>
<td>9.3</td>
<td>3.9</td>
<td>9.0</td>
<td>36.8</td>
</tr>
<tr>
<td>CRF</td>
<td>5.1</td>
<td>0.8</td>
<td>44.6</td>
<td>0.5</td>
</tr>
<tr>
<td>HUSCAP</td>
<td>1.1</td>
<td>1.6</td>
<td>5.5</td>
<td>0.2</td>
</tr>
<tr>
<td>KURENAI</td>
<td>1.8</td>
<td>1.6</td>
<td>8.8</td>
<td>0.3</td>
</tr>
<tr>
<td>QIR</td>
<td>3.4</td>
<td>1.6</td>
<td>22.7</td>
<td>0.4</td>
</tr>
<tr>
<td>Tulips-R</td>
<td>2.1</td>
<td>0.4</td>
<td>10.8</td>
<td>5.5</td>
</tr>
</tbody>
</table>


### Usage Analytics - Discipline

**The relationship between articles’ fields and the number of access: KURENAI [2009]**

<table>
<thead>
<tr>
<th>Field</th>
<th>Non-Japanese Total</th>
<th>Asia</th>
<th>Europe</th>
<th>North America</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arts &amp; Humanities</td>
<td>Avg.</td>
<td>41.0</td>
<td>24.4</td>
<td>7.9</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>Avg.</td>
<td>35.1</td>
<td>7.8</td>
<td>9.6</td>
</tr>
<tr>
<td>Science, Technology and Medicine</td>
<td>Avg.</td>
<td>9.0</td>
<td>4.4</td>
<td>2.1</td>
</tr>
<tr>
<td>Others</td>
<td>Avg.</td>
<td>46.5</td>
<td>22.7</td>
<td>12.2</td>
</tr>
</tbody>
</table>

KURENAI

京大の論文を世界へ発信！
http://repository.kulib.kyoto-u.ac.jp/