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The University of Osaka Institutional Knowledge Archive : OUKA

https://ir.library.osaka-u.ac.jp/

The University of Osaka

Access path to Institutional Resources via link resolvers

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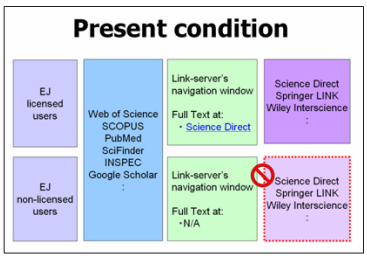
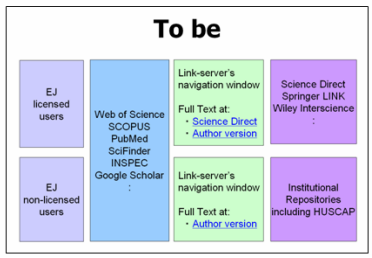
"Until now, institutional repositories have been what I describe as a 'Field of Dreams' technology—libraries have built them in hopes that users and contributors will come," said Eric Hellman, Director, OCLC Openly Informatics, and a collaborator on the AIRway project. "The AIRway Project will help make dreams of linking to these resources a reality, and can help make these repositories more successful. We hope to see the AIRway technology adopted as widely as possible." (OCLC Abstracts, Vol.10, No.11, 2007)

1. Overview





"This article is Available in HUSCAP. (author version)"

2. Partners

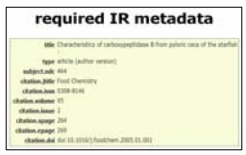
- Institutiolnal repositories
  - HUSCAP (Hokkaido University, JAPAN)
  - Barrel (Otaru University of Commerce, JAPAN)
  - Muroran-IT Academic Resources Archive (Muroran Institute of Technology, JAPAN)
  - Tulips-R (University of Tsukuba, JAPAN)
  - CURATOR (Chiba University, JAPAN)
  - NAGOYA Repository（Nagoya University, JAPAN）
  - KURA (Kanazawa University, JAPAN)
  - MIUSE (Mie University, JAPAN)
  - Kyoto University Research Information Repository (Kyoto University, JAPAN)
  - HIR (Hiroshima University, JAPAN)
  - QIR (Kyushu University, JAPAN)
  - Cranfield QUEprints (Cranfield University, UK)
- Link resolvers
  - 1CATE (Openly Informatics Division, OCLC) (including SwetsWise Linker etc. that use 1CATE as the internal engine)
  - SFX (ExLibris) (Only some of installations in Japan)

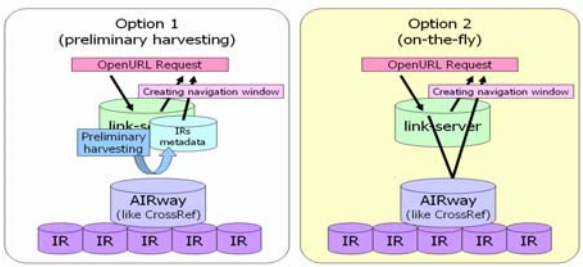
3. Technical issues

- AIRway answers to Open URL 0.1 or 1.0 in ir.xsd

4. Requirements for IRs and link resolvers

- OpenURL complient metadata for institutional repositories
- Preliminary metadata harvesting from AIRway or dynamic access to AIRway for link resolvers





5. References

- Shigeki Sugita, Kunie Horikoshi, Masako Suzuki, Shin Kataoka, E. S. Hellman, Keiji Suzuki. Linking Service to Open Access Repositories, D-Lib Magazine, Vol.13 No.3/4, March/April, 2007 http://dx.doi.org/10.1045/march2007-sugita

ir.xsd

http://eprints.lib.hokudai.ac.jp/ir.xsd

```
<?xml version="1.0" encoding="UTF-8"?>
<xsd:schema
 targetNamespace="http://lib.hokudai.ac.jp/ir"
 xmlns="http://lib.hokudai.ac.jp/ir"
 xmlns:xsd="http://www.w3.org/2001/XMLSchema"
 xmlns:jnl="info:ofi/fmt:xml:xsd:journal">
 <xsd:annotation>
  <xsd:documentation>
        OpenURL resulting records XSD.
        Developed  by: Keiji Suzuki
        Copyright 2006 Hokkaido University Library. All rights reserved.
        ==========================================================
        Change History
          1.0  June 20, 2006  First version is created
        ==========================================================
      </xsd:documentation>
    </xsd:annotation>
 <xsd:import
  namespace="info:ofi/fmt:xml:xsd:journal"
  schemaLocation="http://www.openurl.info/registry/docs/xsd/info:ofi/fmt:xml:xsd:journal" />
 <!-- NOT FOR VERSION 1.0: for future expansion only
 <xsd:import
  namespace="info:ofi/fmt:xml:xsd:book"
  schemaLocation="http://www.openurl.info/registry/docs/xsd/info:ofi/fmt:xml:xsd:book" />
 <xsd:import
  namespace="info:ofi/fmt:xml:xsd:dissertation"
  schemaLocation="http://www.openurl.info/registry/docs/xsd/info:ofi/fmt:xml:xsd:dissertation" />
 -->
 <xsd:element name="result">
  <xsd:complexType>
   <xsd:choice>
    <xsd:element ref="record" minOccurs="1" maxOccurs="unbounded" />
    <xsd:element ref="error" minOccurs="1" maxOccurs="1" />
   </xsd:choice>
   <xsd:attribute name="version" type="xsd:string" fixed="1.0" use="required" />
   <xsd:attribute name="status" use="required">
    <xsd:simpleType>
     <xsd:restriction base="xsd:string">
      <xsd:enumeration value="resolved"/>
      <xsd:enumeration value="unresolved"/>
      <xsd:enumeration value="multiresolved"/>
      <xsd:enumeration value="malformed"/>
     </xsd:restriction>
    </xsd:simpleType>
   </xsd:attribute>
  </xsd:complexType>
 </xsd:element>
 <xsd:element name="record">
  <xsd:complexType>
   <xsd:sequence>
    <xsd:element ref="url" minOccurs="1" maxOccurs="1"/>
    <xsd:element ref="repository" minOccurs="1" maxOccurs="1"/>
    <xsd:element ref="resource_version" minOccurs="1" maxOccurs="1"/>
    <xsd:element ref="identifier" minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element ref="metadata" minOccurs="1" maxOccurs="1"/>
   </xsd:sequence>
   <xsd:attribute name="hitno" use="optional">
    <xsd:simpleType>
     <xsd:restriction base="xsd:positiveInteger"/>
    </xsd:simpleType>
   </xsd:attribute>
  </xsd:complexType>
 </xsd:element>
 <xsd:element name="url" type="xsd:anyURI" />
 <xsd:element name="identifier" type="xsd:string" />
 <xsd:element name="repository" type="xsd:string" />
 <xsd:element name="resource_version" >
    <xsd:simpleType>
     <xsd:restriction base="xsd:string">
      <xsd:enumeration value="author"/>
      <xsd:enumeration value="publisher"/>
     </xsd:restriction>
    </xsd:simpleType>
 </xsd:element>
 <xsd:element name="metadata">
  <xsd:complexType>
   <xsd:choice>
    <xsd:element ref="jnl:journal" minOccurs="1" maxOccurs="1"/>
 <!--   <xsd:element ref="bk:book" minOccurs="0" maxOccurs="1"/>                 -->
 <!--   <xsd:element ref="dis:dissertation" minOccurs="0" maxOccurs="1"/>        -->
   </xsd:choice>
  </xsd:complexType>
 </xsd:element>
 <xsd:element name="error" type="xsd:string" />
</xsd:schema>
```