Constructing Bibliographic Relationships through DOI for Asian Studies

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Outline

- About Airiti. Inc
- Airiti DOI
  - Fast Facts
  - Integration Cases
  - Connections with Japanese Communities
- Initiatives for Bibliographic Relationships
  - Two Examples to Show Digital Objects Are Related
- Summary
About Airiti

- Established in 2000
- 2004: 1st E-journal Platform
- 2008: 1st Full-text Database
- 2011: The only DOI Registration Agency in Taiwan
- 2015: The Leading Knowledge Service Provider

= 180
About Airiti

Innovation of Chinese Knowledge Services

Submission System
Peer-Review

Publisher
Publishing

E-Platform
Indexing/Promotion

E-Commerce
Trade Marketing

Thesis & Dissertation Submission System

Universities

Tracking

Evaluation

2015/12/03
Airiti DOI Fast Facts

Scope
- Academic Communities
  - Traditional Chinese
  - International
- Integrated Digital Publishing Services

Domain
- Different Deposit Content Types
- 2014 - 2015
- 164%

Services
- ORCiD
- Metadata Search
- Reference Linking
Integration - Linking References

Abstract

A new species, Scutellaria hsiehii (Lamiaceae), was collected from central part of the island. Scutellaria hsiehii is close to S. playfairii Kudo, but can be distinguished by its slender procumbent stems, long petiole, long ovate leaves with 3-5 serration along the margin and nutlet coat with short grappling-hook tubercles. A taxonomic description, line drawing, pollen morphology in SEM observation, distribution information, and color photographs of the floral characters are provided.

Reference (7)


Linking Data Sets

Linking Different Types of Research Results

- Article
- Course
- Thesis
- Data
Journal Relationships

Managing Journal Title Changes
Connected with Japanese Communities

Start from Humanities and Social Sciences

Japan Link Center

2015/12/03
An Article in Airiti Library

An article published in Taiwan citing Japanese studies
Cross Linking

Using DOI, this cited work can be seamlessly linked to the source article.
Possible Secondary citations

The source article has been cited.

Possible secondary citations of those Japanese references
Possible Secondary Citations

Possible secondary citations of Chinese references listed in an article in Japanese.
DOIs benefit not only IDENTIFICATION but also RELATIONSHIPS
Functional Requirements for Bibliographic Records

- A conceptual entity-relationship model of bibliographic relationships
- Developed by the International Federation of Library Associations and Institutions (IFLA)
- FRBR is built upon relationships between and among entities
Some Examples of Relationships

- **Equivalence relationships**
  - reproductions, reprints

- **Derivative relationships**
  - adaptations, editions, versions, translations

- **Descriptive relationships**
  - critiques, annotated editions

- **Whole-part (or part-whole) relationships**
  - collections, series
## FRBR Comprises Groups of Entities

<table>
<thead>
<tr>
<th>Group 1 (creations)</th>
<th>Work</th>
<th>Expression</th>
<th>Manifestation</th>
<th>Item</th>
</tr>
</thead>
<tbody>
<tr>
<td>Group 2 (creators)</td>
<td>Person</td>
<td>Corporate body</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Group 3 (Subjects)</td>
<td>Concept</td>
<td>Object</td>
<td>Event</td>
<td>Place</td>
</tr>
</tbody>
</table>
Group 1 Entities

- Four levels of bibliographic entities

Diagram:
- Work: The Novel, The Movie
- Manifestation: Paper, PDF, HTML
- Item: Copy 1 Autographed, Copy 2

Family of Works
FRBR-Collocation and Catalog

- All the works associated with a person, etc.
- All the expressions of the same work
- All the manifestations of the same expression
- All items/copies of the same manifestation

Shakespeare

Hamlet
- English
- French
- German
- Swedish

Romeo and Juliet

Library of Congress
Copy 1
Green leather binding

Stockholm 2008
Airiti DOI Initiatives - 2 Examples

- Digital objects are often related to each other
- Using DOIs to advance identification and to retrieval and access bibliographic relationships between entities
- Using DOIs to record different expressions of the same work
Example 1- Derivative Relationships

Dissertations adapt to journal articles
DOI Can Construct Relationships

- For articles adopted from dissertations, establish bibliographic relationships when depositing metadata for DOI
Example 2 - Relationships and Expressions

- **The work:** ノルウェイの森 *Norwegian Wood* by 村上 春樹

  - short story
  - novel
  - movie

  Firefly 螢 in the short stories collection螢・納屋を焼く・その他の短編

  Translations

  Adoptions
DOI Can Relate Different Expressions

- Each expression gets an DOI
- For example

```
Doi:10.1234/ABC
Doi:10.5678/XYZ
```

- Link these different expressions in metadata record
- It can be a cross-RA collaboration
Incorporate the notion of bibliographic relationships defined by Functional Requirements of Bibliographic Records (FRBR)

To render specific correlations between digital objects

To link the same object to different expressions

To connect with international communities
A Bridge to All Communities
Thank you!