KISTI’s Global Services of Korean Scientific Journals

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Tae-Sul Seo
Korea Institute of Science and Technology Information(KISTI)
About KISTI

- **1962**: Establishment of Nat’l S&T Information Center
  - Online DB Opened (TECHNOLINE, 1975)

- **1982**: Korean DB Service Opened (KIROS, 1985)

- **1991**: web DB Service Opened (KINITI-IR, 1998)
  - DB + Search Engine
    - Web DB Service
    - Search Engine Devel. (KRISTAL 1995)

- **1993**: KORDIC
  - DB + Cyber-Infra
    - STI Portal Opened (yesKISTI, 2005)

- **2001**: KISTi
  - DB + Information Analysis Service

**S&T + Business Information Service**

- **2015**: About KISTI
  - 2015 CASE Conference
About KISTI

• Korea Institute of Science and Technology Information
  – A Research Institute under umbrella of MSIP (Ministry of Science, ICT and Future Planning) of Korean Government

  • Collection and management of S&T information and the development of its service system
Agenda

• Background
• History
• Service
• Content
• Usage
• Vision
Global Service Of Korean Scholarly Journals

- Korean Government wants to maximize the impact of national R&D projects.
- Foreign researchers look for Korean journals.
- Journal publishers want to internationalize their journals.
Background

- Emergence of global services
- Increasing number of e-journal using DOI and XML
History

• **Incubation**
  • 2007: Prototype development
  • 2008: Model service development
    • Linked to WWS.org
  • 2009~2010: Model service improvement
    • Landing pages to CrossRef/DOI

• **Development**
  • 2011~2012: Regular service development
    • Split to KS and KSP

• **Maturity**
  • 2013~: Increasing number of journals
    • Indexed by Google
# History

## Annals of KISTI’s DOI Service

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dec. 2007</td>
<td>The first DOI assignment was performed as a sponsoring member</td>
<td></td>
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<tr>
<td></td>
<td>representing scholarly societies in Korea.</td>
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<tr>
<td>Jan. 2008</td>
<td>KoreaScience was opened to be a DOI landing page</td>
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<td></td>
<td>for Korean S&amp;T journals.</td>
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<tr>
<td>Mar. 2008</td>
<td>The first deposition of DOI XML was successfully performed.</td>
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<tr>
<td>Jun. 2009</td>
<td>Cited-by-linking sign-up &amp; Multiple resolution services were started.</td>
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<tr>
<td>May 2010</td>
<td>Sign-up of CrossCheck, a plagiarism screening system</td>
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<tr>
<td>Dec. 2011</td>
<td>143 journals</td>
<td></td>
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<tr>
<td>Dec. 2012</td>
<td>272 journals</td>
<td></td>
</tr>
<tr>
<td>Dec. 2013</td>
<td>347 journals</td>
<td></td>
</tr>
<tr>
<td>Jul. 2015</td>
<td>430 journals</td>
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</table>
Service

1. DB Construction
2. Metadata Deposit
3. DOI
4. DOI:URL
5. URL

Publisher

Landing Page

User

DOI: 10.1006/jmbi.1995.0238

prefix

suffix
Service

DOI XML Deposit Format

Landing Page URL Composition

http://www.koreascience.or.kr/journal/view.jsp?issn=1226-4873&vol=35&no=7&sp=821

KoreaScience URL

Sub-Directory

ISSN

Volume

Number

Start Page
Service : KISTI’s Role

• Activities as CrossRef co-sponsoring member
  – Assigning DOI prefix to Korean publishers
  – Participating in annual CrossRef meeting
  – DOI seminars for recruiting candidate DOI journals in Korea

• DOI-related services
  – DOI XML deposition
  – Operating landing pages (KoreaScience)
  – Resolving conflicts
  – Cited-by Service
  – CrossCheck Service
Service
Content

Top 20 high SCI(E) IF journals

1. Journal of Forest Science
2. BMB Reports
3. Sleep Medicine and Psychophysiology
4. Wind and Structures
5. Journal of the Nuclear Fuel Cycle and Waste Technology (Korean)
6. Bulletin of the Korean Chemical Society
7. Composites Research
8. Smart Structures and Systems
9. Journal of the Korean Association for Spatial Structures
10. Biopolymers and Therapeutics
12. Steel and Composite Structures
13. Environmental Engineering Research
14. Journal of East-West Nursing Research
15. the Plant Pathology Journal
17. Journal of the Society of Naval Architects of Korea
18. Membrane Water Treatment
19. Physical Therapy Rehabilitation Science
20. Bulletin of the Korean Mathematical Society
Usage

CrossRef Cited-by Linking Statistics

The Highest Number of Citation per Article & Average Citation

Total Citation & Number of Article Cited

- 2009.11: 334
- 2010.10: 257
- 2011.10: 9202
- 2012.11: 21104
- 2013: 46987
- 2014: 62456

No. Article Cited

- 2009.11: 5511
- 2010.10: 0.5
- 2011.10: 11564
- 2012.11: 0.5
- 2013: 20395
- 2014: 37886

Highest No. Citation per Article

- 2009.11: 0.5
- 2010.10: 2.34
- 2011.10: 2.5
- 2012.11: 2.5
- 2013: 130961
- 2014: 180

Average Citation

- 2009.11: 0.5
- 2010.10: 2.34
- 2011.10: 2.5
- 2012.11: 2.5
- 2013: 130961
- 2014: 180

2015-08-22

2015 CASE Conference
From Simple Linking To XML Publishing
Achieving a Premium Scholarly Communication System

DOI/PDF Linking Service
Publishing platform
Publishing office
XML full-text Publishing Service

Vision

From Simple Linking To XML Publishing
Achieving a Premium Scholarly Communication System
Thanks.