Peer-review System used in Korean Scientific Journals

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• Peer-review Systems in Korea
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Needs for Peer-review System

- 5,000 new editors per year
- 500 new journals launched per year
- Organise editorial boards
- Launch new specialist journals
- 40 million articles available digitally, back to early 1800s
- 12 million researchers
- 4,500+ institutions
- 180+ countries
- 1 billion+ downloads/year
- 10 million+ printed pages/year
- 3 Million+ article submissions per year
- 3.75 million+ referee reports per year
- 50%+ of submissions rejected
- 2.5 million+ referees
- 1.5 million new articles produced per year
- 180 years of back issues scanned, processed and data-tagged

Source: Philippe MAB Terheggen, How to Publish Your Manuscript From title to references From submission to revision, Wageningen University and Research Center, 26 October 2010
Needs for Peer-review System

Change of Peer-review Tools

- Saving time and cost
- Process Improvement
  - Dash Board Function
  - Manuscript Management
  - Usability & Accessibility
Needs for Peer-review System

Peer Review Process

Author
- Submit a paper
- Revise the paper

Editor
- Basic requirements met?
- Assign reviewers
- Collect reviewers' recommendations
- Make a decision

Reviewer
- Review and give recommendation

Press

Authors
- Editor-in-Chief
- Technical Editor
- Associate/Assistant Editors

Reviewers
## Peer-review Systems in Korea

### Usage

**Peer-review System Users: 74.3%**

<table>
<thead>
<tr>
<th>Suppliers</th>
<th>No.</th>
<th>Suppliers</th>
<th>No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>KISTI</td>
<td>43</td>
<td>Elsevier(EES)</td>
<td>2</td>
</tr>
<tr>
<td>NRF(JAMS)</td>
<td>4</td>
<td>Etc.</td>
<td>3</td>
</tr>
<tr>
<td>MedRangInfoRang</td>
<td>11</td>
<td><strong>Ready-made System</strong></td>
<td>78</td>
</tr>
<tr>
<td>Korea Scholar Info. Inc</td>
<td>4</td>
<td><strong>Self System</strong></td>
<td>116</td>
</tr>
<tr>
<td>ONPCS</td>
<td>2</td>
<td><strong>Sub-total (System)</strong></td>
<td>194</td>
</tr>
<tr>
<td>Aries(Editorial Manager)</td>
<td>5</td>
<td><strong>Sub-total (No System)</strong></td>
<td>67</td>
</tr>
<tr>
<td>Thomson(ScholarOne)</td>
<td>4</td>
<td><strong>Total</strong></td>
<td>261</td>
</tr>
</tbody>
</table>

*Source: KOFST 2009*
## Peer-review Systems in Korea

### Domestic Suppliers

<table>
<thead>
<tr>
<th>Sec.</th>
<th>Supplier(System)</th>
<th>No. User</th>
<th>Language</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public</td>
<td>KISTI</td>
<td>Scientific Journals, 370</td>
<td>Kor/Eng</td>
</tr>
<tr>
<td></td>
<td>NRF(JAMS)</td>
<td>Social Science Journals 400</td>
<td>Kor/Eng</td>
</tr>
<tr>
<td></td>
<td>KOFST(E-Journal)</td>
<td>Member Journals 7</td>
<td>Eng</td>
</tr>
<tr>
<td>Private</td>
<td>MedRangInfoRang</td>
<td>Medical Journals 100</td>
<td>Kor/Eng</td>
</tr>
<tr>
<td></td>
<td>M2COM</td>
<td>Medical Journals 60</td>
<td>Kor/Eng</td>
</tr>
<tr>
<td></td>
<td>NETIEN</td>
<td>Scientific Journals 10</td>
<td>Kor</td>
</tr>
<tr>
<td></td>
<td>ONPCS</td>
<td>Engineering Journals 10</td>
<td>Kor</td>
</tr>
</tbody>
</table>

※ Source: KISTI 2015. 4
## Peer-review Systems in Korea

### Overseas Suppliers

<table>
<thead>
<tr>
<th>Sec.</th>
<th>System</th>
<th>Users</th>
<th>언어</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open Source</td>
<td>OJS</td>
<td>Worldwide 11,500</td>
<td>Eng</td>
</tr>
<tr>
<td></td>
<td>DPubS</td>
<td>n.a.</td>
<td>Eng</td>
</tr>
<tr>
<td>Comercial</td>
<td>ScholarOne</td>
<td>SCI Journals</td>
<td>Eng</td>
</tr>
<tr>
<td></td>
<td>Editorial Manager</td>
<td>Springer Journals and PLoS</td>
<td>Eng</td>
</tr>
<tr>
<td></td>
<td>EES</td>
<td>Elsevier Journals</td>
<td>Eng</td>
</tr>
<tr>
<td></td>
<td>Bench&gt;Press</td>
<td>HighWire Journals</td>
<td>Eng</td>
</tr>
</tbody>
</table>

※ Source: KISTI 2012. 7
Peer-review Systems of KISTI

Functions

- General System
  - 2 ~ 3 Step review flow
  - Easy to change reviewers
  - Easy to make a final decision
  - Alerting system and the management of log history

Integrated Management

- Integrated login process
- Integrated search interface

International Standard

- Benchmarking EES and ScholarOne
- Benchmarking PKP – OCS and EasyChair
- User-friendly user interface

Various Review Process

KISTI’s Peer-review System

2015-08-22
# Peer-review Systems of KISTI

## Functions

<table>
<thead>
<tr>
<th>Key Message</th>
<th>Web pages for Journal Information, e-Submission, View-Full Text</th>
</tr>
</thead>
<tbody>
<tr>
<td>- User roles are categorized into “Author”, “Editor-in-Chief”, “Editor(including Copy Editor), “Reviewer”</td>
<td></td>
</tr>
</tbody>
</table>

## Permission Functions

<table>
<thead>
<tr>
<th>Permission Functions</th>
<th>Author</th>
<th>EIC/Editor</th>
<th>Reviewer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Register</td>
<td>Register</td>
<td>Register</td>
<td>Register</td>
</tr>
<tr>
<td>Submit paper</td>
<td></td>
<td>Call for papers</td>
<td>Accept or refuse review</td>
</tr>
<tr>
<td>Modify and submit the final paper</td>
<td></td>
<td>Select editorial board</td>
<td>Report review result</td>
</tr>
<tr>
<td>Check review process</td>
<td></td>
<td>Re-select editorial board</td>
<td>Check review history</td>
</tr>
<tr>
<td>Check the process of paper submission and review history</td>
<td></td>
<td>Evaluate editorial board</td>
<td></td>
</tr>
<tr>
<td>Correct paper</td>
<td></td>
<td>Make a final decision</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Push review process</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Check review history</td>
<td></td>
</tr>
</tbody>
</table>

3. Strategic Task 1

Peer-review Systems of KISTI
Peer-review Systems of KISTI

Business Process: Peer-review

Author
Submit
ORCID

EIC
Check-in
Assign Editor

Editor
Editor Invites Reviewer
Editor’s Recommendation

Reviewer
Decline
Reviewers Score
Final Decision

Confirm the result
Submit a Revision
Finalizing Manuscript

Peer-review System in Korea
Peer-review Systems of KISTI

Business Process: e-journal

- Journal Administrator
  - View accepted articles
  - Generate vol/no & page
- Copy Editor
  - Correction
- Author
  - Correction
- Printing Company
  - Final Manuscripts
  - Distribute

Paper Journal
Peer-review Systems of KISTI

Author (Submit) Page

Editor (Main) Page

Reviewer (Main) Page
Peer-review Systems of KISTI

Sample User Pages
Thanks.