

創新學術傳播與未來大學 圖書館的定位與因應之道


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綱要

- 學術傳播的定義
 - 從學術記錄的演化
 - 學術傳播的蛻變
 - 大學圖書館的因應
 - 結語
- 

Scholarly Communication 的定義 -- ARL (1/2)

- “the system through which research and other scholarly writings are created, evaluated for quality, disseminated to the scholarly community, and preserved for future use.

<http://www.arl.org/focus-areas/scholarly-communication#.V1ZrgLdflyY>

Scholarly Communication 的定義 (2/2)

- The system includes both formal means of communication, such as publication in peer-reviewed journals, and informal channels, such as electronic listservs.”

<http://www.arl.org/focus-areas/scholarly-communication#.V1ZrgLdf1yY>

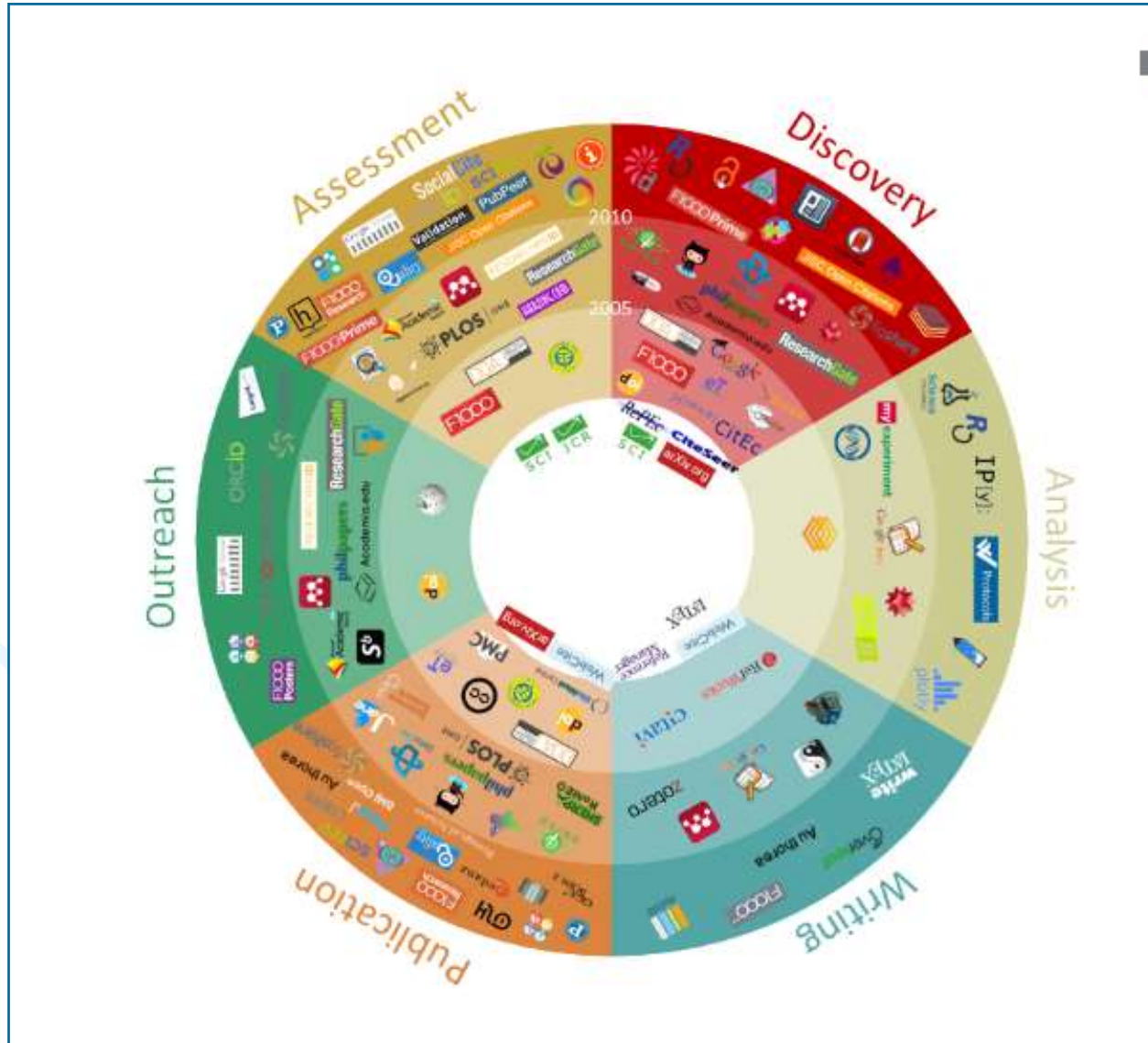
Scholarly Communication 的功能

- Registration
- Certification
- Awareness
- Archiving
- Rewarding

Roosendaal, H., and Geurts, P. 1997. Forces and functions in scientific communication: an analysis of their interplay. Cooperative Research Information Systems in Physics, August 31—September 4 1997, Oldenburg, Germany. <http://www.physik.uni-oldenburg.de/conferences/crisp97/roosendaal.html>

101 INNOVATIONS IN SCHOLARLY COMMUNICATION

<https://innoscholcomm.silk.co/>



Typical workflow examples



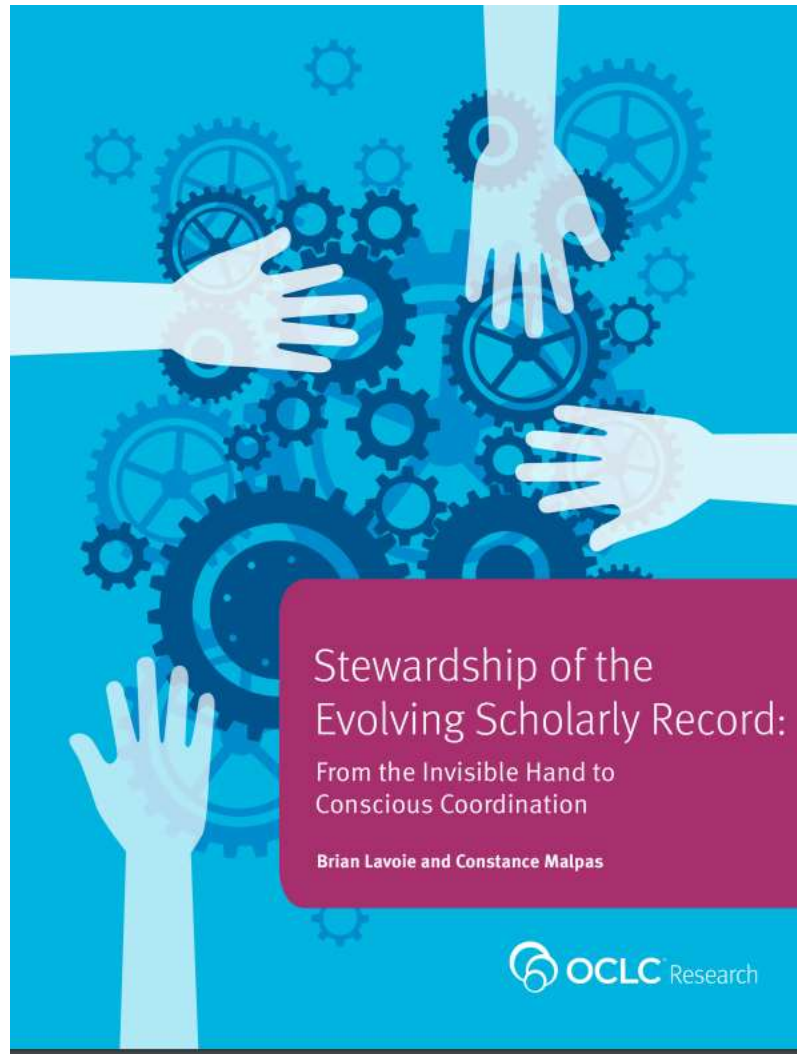


從學術記錄/資源的進化 觀察學術傳播創新發展

<http://www.oclc.org/content/dam/research/publications/library/2014/oclcresearch-evolving-scholarly-record-2014.pdf>



<http://www.oclc.org/content/dam/research/publications/2015/oclcresearch-esr-stewardship-2015.pdf>



Scholarly record: Content & perspective

Date	\$ bn
2012-01-01	16289.6
2012-04-01	16419.2
2012-07-01	16603.7
2012-10-01	16677.3
2013-01-01	16772.7
2013-04-01	16907.9
2013-07-01	17175.9

Faculty: what establishes credentials

Researchers: what is necessary to
validate & build on current literature

Publishers: what is “published”

e-



Library: what is selected
and preserved

```
float gasdev(long *idum) {  
    static int iset = 0;  
    static float gset;  
    float fac, rsq, v1, v2;  
    if (iset == 0) {  
        do {  
            v1 = 2.0*ran1(idum) - 1.0;  
            v2 = 2.0*ran1(idum) - 1.0;  
            rsq = v1*v1 + v2*v2;  
        } while (rsq > 1.0);  
        iset = 1;  
        gset = 1.0/sqrt(rsq);  
    }  
    return gset*v1;
```

The Evolving Scholarly Record : Scope, Stakeholders, and Stewardship
Brian Lavoie, CNI Spring Meeting, April 1, 2014, St. Louis, Missouri
<http://www.oclc.org/research/presentations.htm>

Framing the Scholarly Record ...



The Evolving Scholarly Record : Scope, Stakeholders, and Stewardship
Brian Lavoie, CNI Spring Meeting, April 1, 2014, St. Louis, Missouri
<http://www.oclc.org/research/presentations.htm>

In practice ...



Evolutionary trends ...

- **Formats shifting:**
 - Print-centric to digital, networked
- **Boundaries blurring:**
 - Articles/monographs, but also data, computer models, lab notebooks, blogs, e-mail discussion, e-prints, interactives/executables, visualizations, etc
- **Characteristics changing:**
 - Traditionally: static, formal, outcome-focused
 - Today: dynamic, blend of formal & informal, more focus on process, replicability, “leveragability”
- **Stakeholder roles reconfiguring:**
 - New paths for the scholarly communication “supply chain”

Some remarks ...

- Framework components not new or “suddenly important”
 - But not formalized into scholarly record through systematic collection, referencability, accessibility
- Prior work is foundation of future inquiry
 - Scholarly record itself available as input to new research
- Framework conceptualizes scholarly record evolving into:
 - Greater emphasis on context (process & aftermath), not just outcomes
 - Deeper and more complete record of scholarly inquiry

Scholarly Record 的進化

1. 內容格式：多元，正式與非正式並行
2. 呈現方式：文本、數據、影響力、多媒體、鏈結
3. 出版流程：撰寫、審稿、發行同一平台
4. 動態出版：持續更新版本 **Evolving manuscript**
5. 典藏作業：典藏單位、典藏機制
6. 傳播模式：OA、商業模式、影響
7. 識別方式：DOI、ORCID、Institute ID⁶



1. 内容格式

- Formal

- Research Paper

- Narrative

- Data

- Data journals

- Data paper

- Informal

- Poster

- Slides

- Picture

- Video

- Audio

科學研究典範的改變

Science paradigms (Jim Gray)

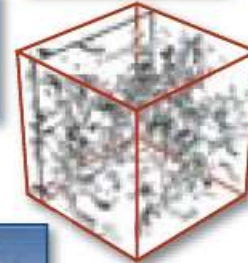
www.oclc.org/content/dam/research/events/dss/ppt/dss_debelder.ppt

Science Paradigms

- Thousand years ago:
science was **empirical**
describing natural phenomena
- Last few hundred years:
theoretical branch
using models, generalizations
- Last few decades:
a **computational** branch
simulating complex phenomena
- Today: **data exploration** (eScience)
unify theory, experiment, and simulation
 - Data captured by instruments
or generated by simulator
 - Processed by software
 - Information/knowledge stored in computer
 - Scientist analyzes database/files
using data management and statistics



$$\left(\frac{\dot{a}}{a}\right)^2 = \frac{4\pi G\rho}{3} - K\frac{c^2}{a^2}$$



1. 內容格式舉例 (1/9)

The Research Ideas and Outcomes (RIO)

<https://www.youtube.com/watch?v=2QKp4Ttpemw>



The Research Ideas and Outcomes (RIO)

<http://riojournal.com/>

- RIO Journal publishes all outputs of the research cycle, including: project proposals, data, methods, workflows, software, project reports and research articles together on a single collaborative platform, with the most transparent, open and public peer-review process.

http://rio.pensoft.net/articles.php?id=7547&instance_id=2478272

The screenshot shows a web browser window displaying the RIO journal website. The URL in the address bar is http://rio.pensoft.net/articles.php?id=7547&instance_id=2478272. The page features a navigation bar with the RIO logo and links for 'About', 'Browse Articles', 'About Pensoft', 'Books', 'E-Books', 'Blog', and 'Journals'. The main content area is titled 'Publishing the research process' and is circled in blue. Below the title, the authors are listed as Daniel Mietchen, Ross Mounce, and Lyubomir Penev. The abstract section follows, describing the journal's mission. A right-hand sidebar contains a table of contents with links to various sections of the article.

Publishing the research process

✦ Daniel Mietchen, Ross Mounce, Lyubomir Penev

Abstract

Research Ideas and Outcomes (or RIO for short) is a new journal designed to communicate the nature of research as a process to engage with. RIO covers all areas of scholarly inquiry and links research ideas to their implementation through multiple steps that can be highlighted and scrutinized individually and transparently. Built on top of a collaborative online platform that handles every step from authoring through review and dissemination, RIO provides researchers with a rich set of publishing services to choose from, at competitive yet sustainable speed and pricing. It maps research activities to the societal challenges they help to address, and it facilitates the reuse of its materials in educational contexts through open licensing.

Reinventing the research journal

We are conscious that journals are just one way to organize scholarly publications and that the entire scholarly literature – formally spread across tens of thousands of journals – could be considered as just one journal (Gordon and Poulain 2008) if it weren't for paywalls, reuse restrictions and a still significant body of research not available online. We also agree that the era of journals as we have known them for decades and centuries – e.g. as slow, expensive, static, limited in space and scope – is coming to an end (Krumholz 2015).

Contents	Article info	Citation	Metrics	Reviews
Article title				
Acknowledgements				
References				
Abstract				
Reinventing the research journal				
Publishing the research results is not enough				
The scope of RIO				
Multi-step peer review				
Highlighting societal impact				
Obstacles to publishing research workflows				
Conclusions				

1. 內容格式舉例：Data Journal

<http://proj.badc.rl.ac.uk/preparde/blog/DataJournalsList>

- Geoscience Data Journal
 - <http://www.geosciencedata.com>
- Earth System Science Data
 - <http://earth-system-science-data.net/>
- Ecological Archives - Data Papers
 - http://esapubs.org/archive/archive_D.htm
- Journal of Chemical and Engineering Data
 - <http://pubs.acs.org/journal/jceaax>
- GigaScience?
 - <http://www.gigasciencejournal.com/>

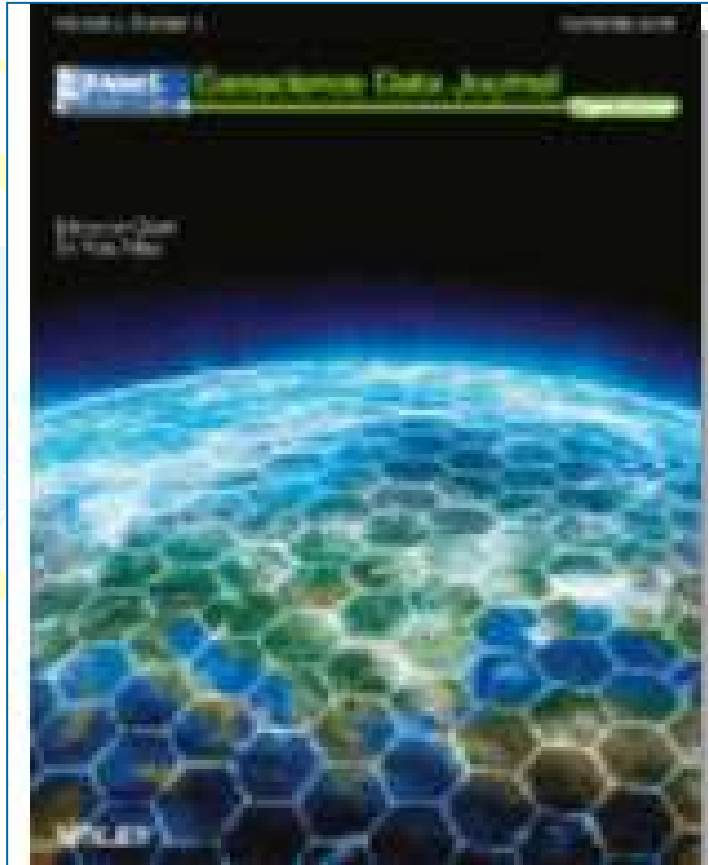
1.內容格式舉例： Hindawi publishing

<http://www.datasets.com/>

- Dataset Papers in Agriculture
- Dataset Papers in Biology
- Dataset Papers in Chemistry
- Dataset Papers in Ecology
- Dataset Papers in Geosciences
- Dataset Papers in Materials Science
- Dataset Papers in Medicine
- Dataset Papers in Nanotechnology
- Dataset Papers in Neuroscience
- Dataset Papers in Pharmacology
- Dataset Papers in Physics

1. 內容格式舉例：Geoscience Data Journal

[http://onlinelibrary.wiley.com/journal/10.1002/\(ISSN\)2049-6060](http://onlinelibrary.wiley.com/journal/10.1002/(ISSN)2049-6060)



- Publishes short data papers cross-linked to, and citing, datasets that have been deposited in approved data centres.
- A data paper describes a dataset, giving details of its collection, processing, software, file formats etc, without the requirement of novel analyses or ground breaking conclusions. It allows the reader to understand the when, how and why data was collected and what the data-product is.

Geoscience Data Journal

[http://onlinelibrary.wiley.com/journal/10.1002/\(ISSN\)2049-6060](http://onlinelibrary.wiley.com/journal/10.1002/(ISSN)2049-6060)

Current approved data centres or epositories include:

- 3TU.Datacentrum
- British Atmospheric Data Centre (BADC)
- British Oceanographic Data Centre (BODC)
- CISL Research Data Archive
- CSIRO Data Access Portal
- Environmental Information Data Centre (EIDC)
- Figshare
- IEDA:EarthChem
- IEDA:MGDS
- National Center for Atmospheric Research (NCAR), USA
- Earth Observing Lab (EOL), observational and supporting data from atmospheric science field experiments and arctic research
- Research Data Archive (RDA), reference datasets for weather and climate research

....

1. 內容格式舉例－人社

<http://dansdatajournal.nl/>



- **Data papers** are scholarly publications of medium length containing a non-technical description of a data set and putting the data in a research context. Each paper gets a persistent identifier providing publication credits to the author.

人社 Data Journal 舉例

<http://dansdatajournal.nl/>

Research Data Journal

for the Humanities and Social Sciences

Published by Brill in collaboration with Data Archiving and Networked Services (DANS), Netherlands

[Home](#) [Sections](#) [For Authors](#) [About](#)

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- [Wonen en werken in de Late IJzertijd in Spijkenisse](#)
- [Correspondence of Swammerdam \(1664-1679\)](#)
- [E.J. de Jager, Reis van de Razzia: een oral history project over de razzia van Rotterdam](#)
- [O. Gelderblom, Merchants from the Southern Netherlands \(1578-1630\)](#)

Volume 1:1 (2016)

Editorial

- [L. Breure, A Data Journal as Enhanced Publication.](#)

I. Social and Economic History Data

- [O. Gelderblom, Merchants from the Southern Netherlands and the rise of the Amsterdam staplemarket \(1578-1630\).](#)

II. Language and Literature Data

- [Correspondence of Swammerdam \(1664-1679\)](#) [Circulation of Knowledge Project].
Overlay data paper – *depositor*: E. Jorink

III. Audio-visual Data

2. 呈現方式

- 文本、影像、聲音
- 資料 (data)
- 方式
- 程式
- 影響力
- 鏈結
 - 內容主題、後設資料

2. 呈現方式舉例

<http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0148257>



OPEN ACCESS PEER REVIEWED

RESEARCH ARTICLE

Open Access Meets Discoverability: Citations to Articles Posted to Academia.edu

Yuri Niyazov, Carl Vogel, Richard Price  Ben Lund, David Judd, Adnan Akil, Michael Mortonson, Josh Schwartzman, Max Shron

Published: February 17, 2016 • <http://dx.doi.org/10.1371/journal.pone.0148257>

Article	Authors	Metrics	Comments	Related Content
				

Abstract

Introduction
Background
Materials and Methods
Results
Discussion
Author Contributions

Abstract

Using matching and regression analyses, we measure the difference in citations between articles posted to Academia.edu and other articles from similar journals, controlling for field, impact factor, and other variables. Based on a sample size of 31,216 papers, we find that a paper in a median impact factor journal uploaded to Academia.edu receives 16% more citations after one year than a similar article not available online, 51% more citations after three years, and 69% after five years. We also found that articles also posted to Academia.edu had 58% more citations than articles only posted to other online venues, such as personal and

54 Saves	0 Citations
0 Views	127 Shares

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Subject Areas

- Open access
- Regression analysis
- Linear regression an...
- Medicine and health ...

<http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0148257>

Open Access Meets Discoverability: Citations to Articles Posted to Academia.edu
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Abstract
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Reader Comments (1)
Media Coverage (0)
Figures

Citation: Niyazov Y, Vogel C, Price R, Lund B, Judd D, Akil A, et al. (2016) Open Access Meets Discoverability: Citations to Articles Posted to Academia.edu. PLoS ONE 11(2): e0148257. doi:10.1371/journal.pone.0148257

Editor: Pablo Dorta-González, Universidad de Las Palmas de Gran Canaria, SPAIN

Received: August 31, 2015; **Accepted:** January 15, 2016; **Published:** February 17, 2016

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Data Availability: Data from the "Open Access Meets Discoverability" paper are available at <https://github.com/polynumeral/academia-citations>.

Funding: Academia.edu paid its employees, contractors and an external consultancy (Polynumeral) to perform this study. Authors Yuri Niyazov, Richard Price, Ben Lund, David Judd, Adnan Akil, Michael Mortonson and Josh Schwartzman are employed by Academia.edu. Authors Carl Vogel and Max Shron are employed by Polynumeral. Academia.edu provided support in the form of salaries for authors YN, RP, BL, DJ, AA, MM and JS, but did not have any additional role in the study design, data collection and analysis, decision to publish, or preparation of the manuscript. The specific roles of these authors are articulated in the "author contributions" section. Polynumeral provided support in the form of salaries for authors CV and MS, but did not have any additional role in the study design, data collection and analysis, decision to publish, or preparation of the manuscript. The specific roles of these authors are articulated in the "author contributions" section.

Competing interests: The authors of this manuscript have read the journal's policy and have the following competing interests: Academia.edu paid its employees, contractors and an external consultancy (Polynumeral) to perform this study. Authors Yuri Niyazov, Richard Price, Ben Lund, David Judd, Adnan Akil, Michael Mortonson and Josh Schwartzman are employed by Academia.edu. Authors Carl Vogel and Max Shron are

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19 Mar 2016
Yer Weddell @YerWeddell

- 
- Data Availability: Data from the "Open Access Meets Discoverability" paper are available at <https://github.com/polynumeral/academia-citations>.

<http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0148257>

The screenshot shows a web browser displaying a PLOS ONE article. The article title is "Open Access Meets Discoverability: Citations to Articles Posted to Academia.edu" by Yuri Niyazov, Carl Vogel, Richard Price, Ben Lund, David Judd, Adnan Akil, Michael Mortenson, Josh Schwartzman, and Max Shron. The article is divided into sections: Abstract, Introduction, Background, Materials and Methods, Results, Discussion, Author Contributions, and References. The "Materials and Methods" section is circled in blue. The text in this section describes the data sources and the analysis methodology. The "On-Academia and Off-Academia Articles" section describes the samples used in the study. The "On-Academia Sample" section describes the selection criteria for the articles included in the analysis.

Open Access Meets Discoverability: Citations to Articles Posted to Academia.edu
Yuri Niyazov, Carl Vogel, Richard Price, Ben Lund, David Judd, Adnan Akil, Michael Mortenson, Josh Schwartzman, Max Shron

5. **Self-selection by article availability.** A user may be more likely to post a paper to the site if they have already made it available through other venues, such as their personal website or institutional or subject-specific repositories. In this case, a citation advantage estimated for Academia.edu papers might be measuring in part or whole, a general open access effect from the articles' availability at these other venues.

Background

Many of these factors cannot be observed directly or completely, and their aggregate effect on citation advantage estimates is difficult to predict. We have collected data and employed matching and regression strategies to mitigate each of the above potential biases, and continue to find a substantive citation advantage to articles posted to Academia.edu.

Materials and Methods

We rely on data from several sources: (1) articles the Academia.edu website, (2) citation counts and free-access status from Google Scholar, (3) journal rankings from SCIMago/Scopus, and (4) journal research fields from the Australian Research Council. All data and code used in the analysis are available for download at <https://github.com/polynumerical/academia-citations>.

On-Academia and Off-Academia Articles

Our analysis is a comparison of citations between articles posted to Academia.edu to articles not posted. We refer to these two samples as the "On-Academia" sample and the "Off-Academia" sample. Articles comprising each sample were selected in the following way:

On-Academia Sample: The articles in our analysis were uploaded to the Academia.edu between 2009 and 2012, inclusive. We chose to start at 2009 because this was the first full year that the site was active. We stopped at 2012 so that all articles in the sample are at least two-years old and have had time to accumulate citations. We restrict our sample to articles that were posted to the site in the same year they were published. We refer to this as the "P = U" (Published = Uploaded) restriction. This ensures that all of the articles are exposed to any citation advantage effect starting from their publication. It also mitigates bias from authors



- **Materials and Methods**

- We rely on data from several sources: (1) articles the Academia.edu website, (2) citation counts and free-access status from Google Scholar, (3) journal rankings from SCIMago/Scopus, and (4) journal research fields from the Australian Research Council. All data and code used in the analysis are available for download at <https://github.com/polynumeral/academia-citations>.

<http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0148257>

Open Access Meets Discoverability: Citations to Articles Posted to Academia.edu
 Yuri Niyazov, Carl Vogel, Richard Price, Ben Lund, David Judd, Adnan Akil, Michael Mortonson, Josh Schwartzman, Max Shron

from the paper's canonical title. (For example, a user may add "supplement" or "PLoS" to the title.) This sort of discrepancy was a common reason for a failure to match. We do not believe that failure to match a paper is related to its citations, and therefore these exclusions should not bias our results.

Abstract
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 Media Coverage (0)
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Year	Open Access	Excluded
2004	0,000	722
2005	0,708	388
2006	0,000	0,000
2007	0,000	0,000
2008	0,000	0,000
Total	0,708	0,000

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Table 1. Sample size of papers, by cohort.
<http://dx.doi.org/10.1371/journal.pone.0148257.t001>

Articles in the sample come from 5,725 different journals, but there is a concentrated representation of journals. Table 2 lists the ten journals with the highest number of articles in our sample. The most-represented journal, Analytical Chemistry comprises 4.6% of the sample, and the top ten journals comprise 12%.

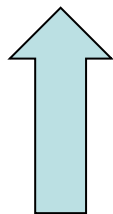
Journal	# Articles	% Total
Analytical Chemistry	1,422	4.6%
Biological and Pharmaceutical Sciences	820	7.8%
Analytical Methods: technology, methods and applications	618	5.9%
Analytical Chemistry	592	5.6%
Biotechnology: Chemistry	500	4.8%
Applied Mechanics and Materials	380	3.6%
PLoS One	334	3.2%
Applied Physics Letters	318	3.0%
PLoS Proceedings	294	2.8%
Mathematics and Statistics	280	2.7%

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Table 1. Sample size of papers, by cohort.

Year	Off-Academia	On-Academia
2009	4,600	149
2010	5,768	490
2011	6,989	2,236
2012	8,368	2,616
Total	25,725	5,491

doi:10.1371/journal.pone.0148257.t001



<http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0148257>

Open Access Meets Discoverability: Citations to Articles Posted to Academia.edu
Yuri Niyazov, Carl Vogel, Richard Price, Ben Lund, David Judd, Adnan Akil, Michael Mortonson, Josh Schwartzman, Max Shron

PLOS

Author Contributions

Conceived and designed the experiments: YN CV RP. Performed the experiments: YN CV DJ MS. Analyzed the data: YN CV. Wrote the paper: CV BL RP YN. Performed first version of experiment: AA JS. Wrote software for analysis: DJ YN CV. Performed Internal Audit of Final Experiment: MM.

References

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[View Article](#) • [PubMed/NCBI](#) • [Google Scholar](#)
2. Gargouri Y, Hajjem C, Larivière V, Gingras Y, Carr L, Brody T, et al. Self-Selected or Mandated, Open Access Increases Citation Impact for Higher Quality Research. PLoS ONE. 2010 10;5(10):e13636. doi: 10.1371/journal.pone.0013636. pmid:20976155
[View Article](#) • [PubMed/NCBI](#) • [Google Scholar](#)
3. Davis PM, Lewenstein BV, Simon DH, Booth JG, Connolly MJL. Open access publishing, article downloads, and citations: randomised controlled trial. BMJ. 2008;337. doi: 10.1136/bmj.a568.
[View Article](#) • [PubMed/NCBI](#) • [Google Scholar](#)
4. Davis PM. Open access, readership, citations: a randomized controlled trial of scientific journal publishing. The FASEB Journal. 2011;25(7):2129–2134. doi: 10.1096/fj.11-183988. pmid:21450907

Abstract
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Yael Neuman, Carl Vogel, Richard Price, Ben Lund, David Jubb, Adrian All, Michael Mortenson, Josh Schwartzman, Max West

viewed 1

Cited 0
No related citations found
Search for citations in Google Scholar

Saved 0

Discussed 0

Information on PLOS Article-Level Metrics
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Subject Areas

- Open access
- Regression analysis
- Linear regression an...
- Medicine and health...
- Taxonomy
- Survey research
- Analytical chemistry
- Chemical biology

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OUR MISSION.

Metric	Count
Viewed	1
Cited	0
Saved	0
Discussed	0
Twitter	61
Facebook	66
Comments	1

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<http://www.earth-syst-sci-data.net/8/235/2016/essd-8-235-2016-metrics.html>

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http://www.earth-syst-sci-data.net/8/235/2016/
doi:10.5194/essd-8-235-2016
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Volume 8, issue 1

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03 Jun 2016

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André Valente et al.

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HTML	PDF	XML	Total	BibTeX	EndNote
303	224	3	530	4	4

Views and downloads (calculated since 19 Jan 2016)

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HTML	86	0	86
PDF	0	46	46
XML	0	3	3
Total	132	49	181
HTML	105	0	105
PDF	0	82	82
XML	0	0	0
Total	187	82	269
HTML	85	0	85
PDF	0	0	0
XML	0	0	0
Total	85	0	85
HTML	84	0	84
PDF	0	0	0
XML	0	0	0
Total	84	0	84

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- IPP 5.733
- SJR 4.096
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General Article Biodiversity Data Journal 4: e8080 (25 May 2016)
doi: 10.3897/BDJ.4.e8080

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Contents Article info Citation Metrics Comment

Figs Tabs Taxa Refs

Challenges with using names to link digital biodiversity information

David Patterson, Dmitry Mozzherin, David Peter Shorthouse, Anne Thessen

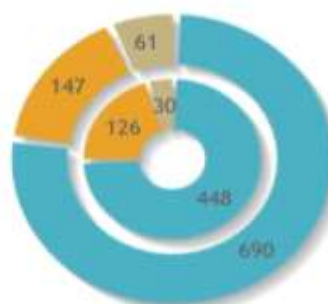
Abstract

The need for a names-based cyber-infrastructure for digital biology is based on the argument that scientific names serve as a standardized metadata system that has been used consistently and near universally for 250 years. As we move towards data-centric biology, name-strings can be called on to discover, index, manage, and analyze accessible digital biodiversity information from multiple sources. Known impediments to the use of scientific names as metadata include synonyms, homonyms, mis-spellings, and the use of other strings as identifiers. We here compare the name-strings in GenBank, Catalogue of Life (CoL), and the Dryad Digital Repository (DRYAD) to assess the effectiveness of the current names-management toolkit developed by Global Names to achieve interoperability among

Article views

Unique views: 604 | Total views: 898

HTML PDF XML



Format	Total Views	Unique Views
HTML	690	448
PDF	147	126
XML	61	30

Sub-Article-Level Metrics

Figures

Total views Unique views Total downloads Unique downloads

論文的影響力- BDJ

http://biodiversitydatajournal.com/articles.php?id=995&display_type=list&element_type=11

The screenshot shows the Biodiversity Data Journal website. The main article title is "Beyond dead trees: integrating the scientific process in the Biodiversity Data Journal". The authors listed are Vincent Smith, Teodor Georgiev, Pavel Stoev, Jordan Biserkov, Jeremy Miller, Laurence Livermore, Edward Baker, Daniel Mitchen, Thomas L.P. Couvreur, Gregory Mueller, Torsten Dikow, Kristofer M. Helgen, Jifi Frank, Donat Agosti, David Roberts, and Lyubomir Penev. The article is categorized as "Editorial" and has a DOI of 10.3897/BDJ.1.e995. The publication date is 16 Sep 2013. The article is available in PDF and XML formats. The authors' information is displayed on the right side of the page, including their names, affiliations, and contact information. A blue arrow points to the author information for Vincent Smith.

Biodiversity Data Journal | About | Browse Articles | About Pensoft | Books | E-Books | Blog | Journals | Register

Editorial | Biodiversity Data Journal 1: e995 (16 Sep 2013) | doi: 10.3897/BDJ.1.e995

PDF | XML | Twitter | Facebook | + | RSS | Email

Contents | Article info | Citation | Metrics | Comment

Figs | Refs

Biodiversity Data Journal 1: e995
doi: 10.3897/BDJ.1.e995

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Beyond dead trees: integrating the scientific process in the Biodiversity Data Journal

▼ Vincent Smith, Teodor Georgiev, Pavel Stoev, Jordan Biserkov, Jeremy Miller, Laurence Livermore, Edward Baker, Daniel Mitchen, Thomas L.P. Couvreur, Gregory Mueller, Torsten Dikow, Kristofer M. Helgen, Jifi Frank, Donat Agosti, David Roberts, Lyubomir Penev

Introduction

Driven by changes to policies of governments and funding agencies, Open Access to content and data is quickly becoming the prevailing model in academic publishing. Open Access benefits scientists with greater dissemination and citation of their work, and provides society as a whole with access to the latest research. Open Access is, however, only one facet of scholarly communication. Core scientific statements or assertions are intertwined and hidden in the scholarly

3. 出版流程進化之例- BDJ

<http://bdj.pensoft.net/>

The screenshot displays the Biodiversity Data Journal (BDJ) website. At the top left is the logo with the text "A peer-reviewed open-access journal Biodiversity Data Journal Making your data count! ISSN 1319-2088 (online)". A search bar with "Author" and "Title" filters and a "Start a manuscript" button are at the top right. A sidebar on the left lists "Journal Features" such as "Focus and Scope", "Globally unique innovations", "Criteria for publication", "Peer review", "For authors", "Data publication", "Policies", "Frequently Asked Questions (FAQ)", "Article Processing Charges", "Web services", "Contacts", and "Editorial Team". Below this are buttons for "Most Visited Papers", "Most Active Editors", "Most Active Reviewers", and "Most Productive Authors". Social media icons for Facebook, Twitter, Google+, and RSS are present. A "tweets by @BioDataJournal" section shows a tweet from @BioDataJournal: "(2) Simply 'Cite reference' & select from the Reference List. Unfit".

The main content area features a large banner with the title "Resolving the publishing bottleneck for biodiversity" and the quote "Science is a combination of gathering facts and making theories; neither can progress on its own. In the histo...". Below the banner are two columns of benefits:

- Making "small" data big**
 - No lower/upper limit of manuscript size
 - Publish all kinds of biodiversity related data
 - Reduced page charges affordable by all
- More than just data journal**
 - Integrated text and data publishing
 - Completely online revisions and editing
 - Community ownership of data

BDJ採用 Arpha 出版平台

<http://arphahub.com/>



The banner features a blue sky background with a mountain range. The Arpha logo is centered at the top. Below it, the words 'Authoring', 'Reviewing', 'Publishing', 'Hosting', and 'Archiving' are arranged horizontally. The slogan 'All in one place, for the first time!' is centered below the words. A paragraph of text is at the bottom, and a small date stamp is in the bottom right corner.

arpha

Authoring Reviewing Publishing Hosting Archiving

All in one place, for the first time!

ARPHA is the first end-to-end, narrative- and data-integrated publishing solution that supports the full life cycle of a manuscript, from authoring to reviewing, publishing and dissemination. ARPHA provides accomplished and streamlined production workflows that can be customized according to the journal's needs.

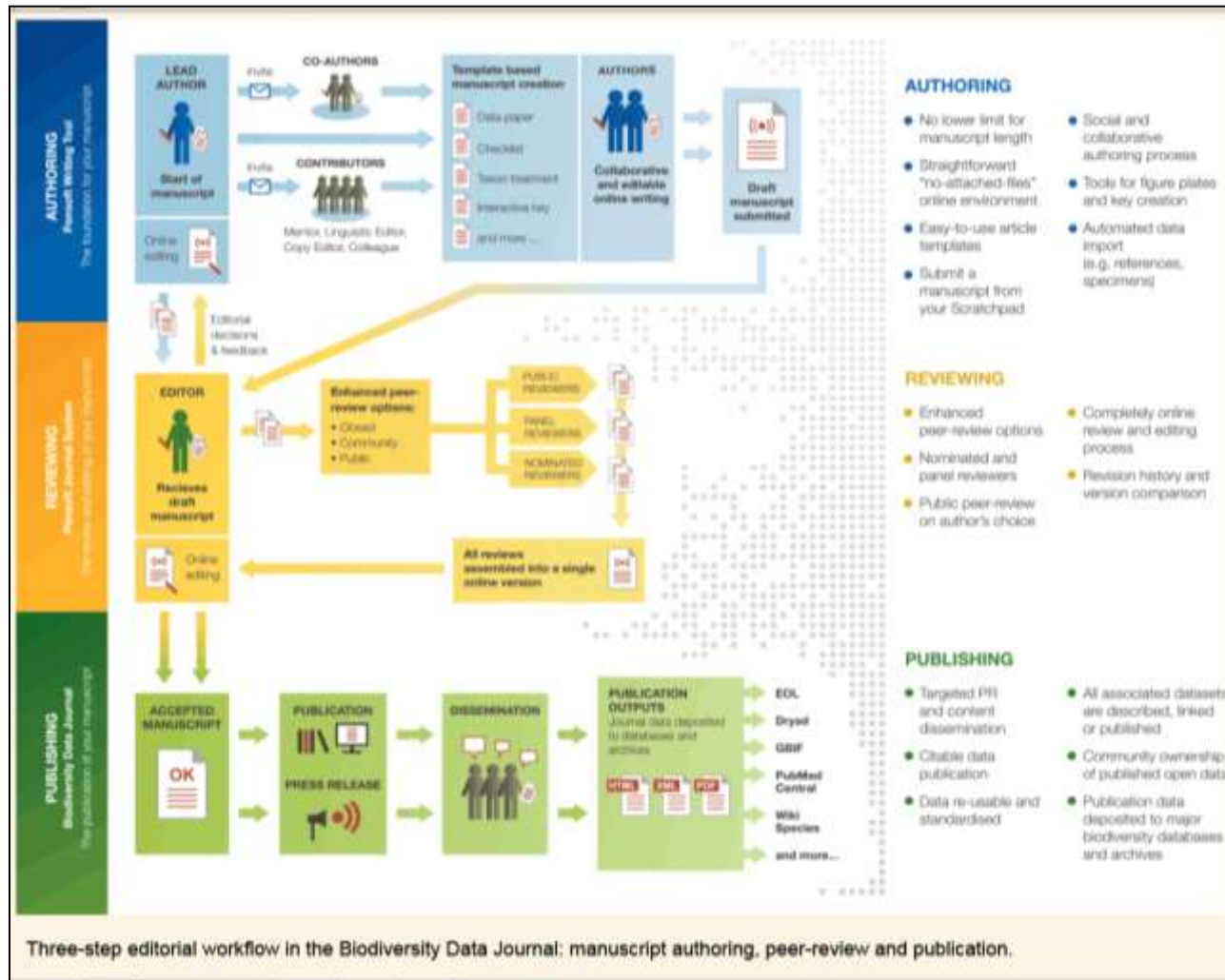
2016年6月6日
星期四

<http://arphahub.com/>

- ARPHA is the first end-to-end, narrative- and data-integrated publishing solution that supports the full life cycle of a manuscript, from authoring to reviewing, publishing and dissemination. ARPHA provides accomplished and streamlined production workflows that can be customized according to the journal's needs.

Three-step editorial workflow in the Biodiversity Data Journal: manuscript authoring, peer-review and publication.

http://alpha.pensoft.net/display_zoomed_figure.php?fig_id=347384



4. 動態出版 – Evolving Manuscript

<https://royalsociety.org/~media/events/2015/04/FSSC1/FS-SC-Report.pdf>

The future of
scholarly scientific
communication

Conference 2015



2015

The NMC Horizon Report

also presents the exciting concept of an "evolving manuscript," which is an ongoing paper rather than a published paper that is frozen at a particular moment. Such manuscripts would allow for the evolution of scholarship to be presented and captured over time. There are still inherent challenges regarding how to preserve such a dynamic record. That said, such manuscripts could be presented in discrete and tangible packages that allow for easier collection and preservation

<http://www.niso.org/publications/rp/RP-8-2008.pdf>



NISO-RP-8-2008

**Journal Article Versions (JAV):
Recommendations of the
NISO/ALPSP JAV
Technical Working Group**

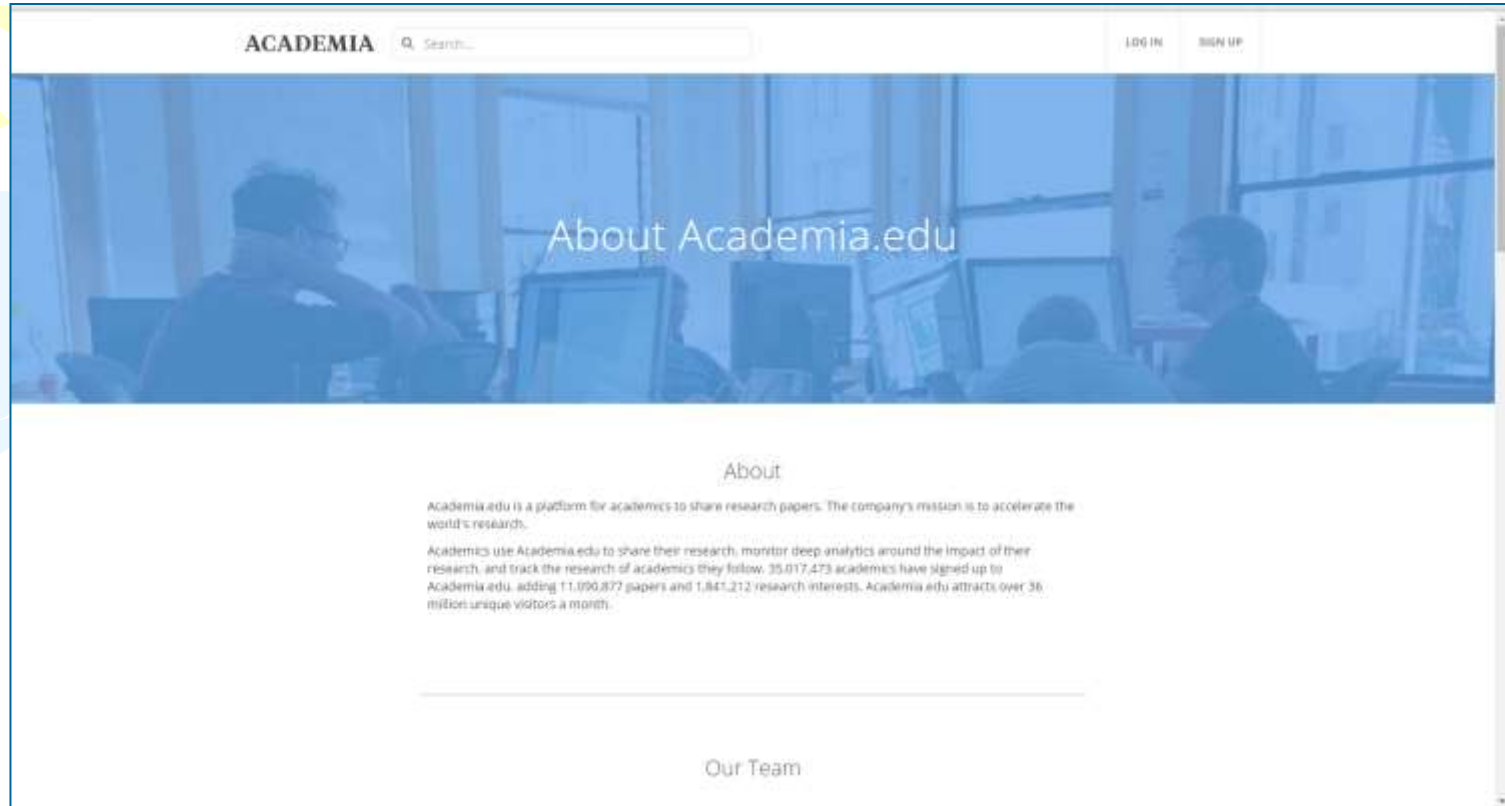
April 2008

5. 典藏作業

- 單位擴增
 - 出版單位
 - 圖書館
 - 研究機構
 - 企業機構
 - 個人
 - 第三者 (Third party)
 - Portico, Clockss , Lockss
 - 聯合典藏
- 機制改變
 - 圖書資訊專業人員
 - 著者參與
 - 系統互操
 - Jisc publication Router

Academia.edu (1/3)



<https://www.academia.edu/about>





Academia.edu (2/3)

<https://www.academia.edu/about>

- Academia.edu is a platform for academics to share research papers. The company's mission is to accelerate the world's research.
- 
- 



Academia.edu (3/3)

<https://www.academia.edu/about>

- Academics use Academia.edu to share their research, monitor deep analytics around the impact of their research, and track the research of academics they follow.
- 38,539,016 signed up
- 12,980,662 papers
- 1,879,716 research interests.
- over 36 million unique visitors a month.
(2016-06-12)

https://www.academia.edu/12297791/Open_Access_Meets_Discoverability_Citations_to_Articles_Posted_to_Academia.edu

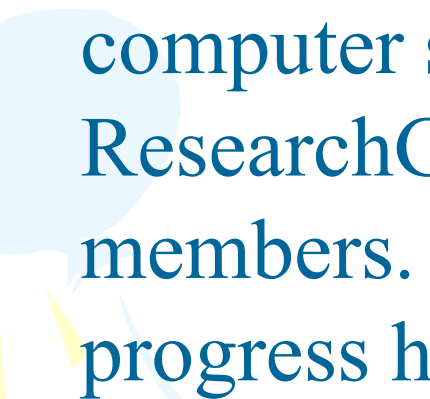

The screenshot shows the Academia.edu website interface. At the top, there is a search bar and navigation links for 'LOG IN' and 'SIGN UP'. A notification banner states: 'We're trying Google Ads to subsidize server costs. If you are logged in, you won't see ads. Hover to learn more.' Below this is a feedback message: 'Thanks for the feedback! Back. We'll review this ad to improve your experience in the future. Help us show you better ads by updating your ads settings.' The main content area features a PDF thumbnail on the left with the title 'Open Access Meets Discoverability: Citations to Articles Posted to Academia.edu' and '41 Pages'. To the right, the article title is repeated. Below the title, there is a metadata row with the following data: 'AUTHORS: Richard Price + 8', 'RECOMMENDED' (with icons), 'PAPER RANK: 3.2', 'FILES: 1 of 2', and 'VIEWS: 465,359'. The 'VIEWS' value is circled in blue. Below the metadata, there are social media sharing buttons for Google+, Facebook, and Email, and a 'READ PAPER' button.

AUTHORS	RECOMMENDED	PAPER RANK	FILES	VIEWS
Richard Price + 8	[Icons]	3.2	1 of 2	465,359



ResearchGate (1/3)

<https://www.researchgate.net/about>

- Founded in 2008 by physicians Dr. Ijad Madisch and Dr. Sören Hofmayer, and computer scientist Horst Fickenscher, ResearchGate today has more than 9 million members. We strive to help them make progress happen faster.
- 
- 



ResearchGate (2/3)

<https://www.researchgate.net/about>

- Mission

To connect researchers and make it easy for them to share and access scientific output, knowledge, and expertise.

On ResearchGate they find what they need to advance their research.



ResearchGate (3/3)

<https://www.researchgate.net/about>

- The New York Times
 - For a common purpose of advancing scientific research.
 - Cracking Open the Scientific Process.
- Reuters
 - ResearchGate allows researchers around the world to collaborate more easily.
- Science
 - Pioneers

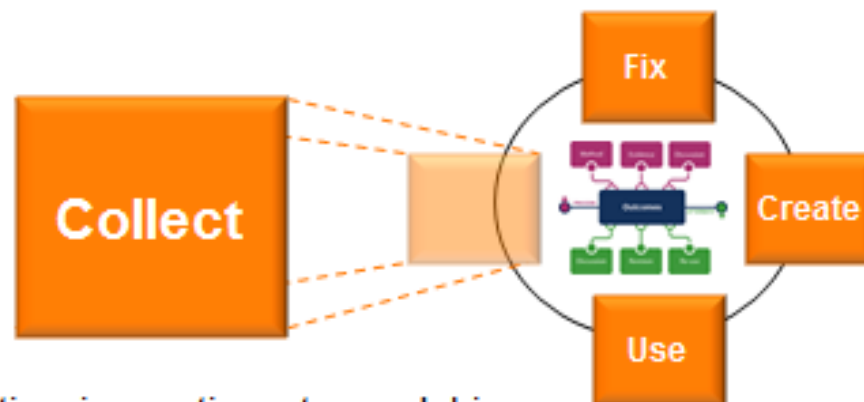


出版者與典藏單位互操 Jisc Publication Router

<https://pubrouter.jisc.ac.uk/>

- Publications Router gathers information from content providers such as publishers and passes it on to institutions to help them capture their research articles onto their systems, such as their repositories or CRISs.

Stewardship of the scholarly record



Key characteristics impacting stewardship ...

- Increasing volume of content
- Increasing diversity/complexity of content
- Increasing distribution of custodial responsibility

→ **“local copies” of scholarly record becoming increasingly partial**



6. 傳播模式

- 朝向 OA 發展
 - Open Access 2020
- 多面向擴展
 - Open Access Article
 - Open Access Book
 - Open Access Textbook
 - Open Data
 - Open evaluation
 - Open Metrics
- 費用問題
 - subscription fee
 - APC
 - Springer Compact
 - Central Charge
- 品質憂慮
 - Predatory Open Access Journal
 - Beall's List
 - megajournal

The Competitiveness Council meeting in Brussels, May 2016.



The Competitiveness Council meeting in Brussels this week.

EU Competitiveness Council



In dramatic statement, European leaders call for ‘immediate’ open access to all scientific papers by 2020, By Martin Enserink, May. 27, 2016 .

<http://www.sciencemag.org/news/2016/05/dramatic-statement-european-leaders-call-immediate-open-access-all-scientific-papers>

- In what European science chief Carlos Moedas calls a "life-changing" move, E.U. member states today agreed on an ambitious new open-access (OA) target. All scientific papers should be freely available by 2020, the Competitiveness Council—a gathering of ministers of science, innovation, trade, and industry—concluded after a 2-day meeting in Brussels

亞洲響應 Open Access 2020 的單位

<http://oa2020.org/mission/>

韓國

- National Library of Korea 2016-03-24
- Seoul National University Library (SNU Library) 2016-03-21
- KISTI (Korea Institute of Science and Technology Information) 2016-03-21
- CODE 2016-03-21

印度

- Open Access India 2016-05-20

Traditional

Born OA



Disruptive



<http://www.hindawi.com/about/>

Hindawi Publishing Corporation

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- Browse Journals
- Open Access Memberships
- Publication Ethics
- Resources and Tools
- Spotlight Articles
- Subscription Information

OPEN ACCESS

Login to the Manuscript Tracking System

About Us

Hindawi Publishing Corporation is a commercial publisher of peer-reviewed journals covering a wide range of academic disciplines. Founded in 1997, Hindawi currently employs more than 700 employees and publishes 400+ open access, peer-reviewed journals.

Hindawi's journals maintain the highest standards of peer review, with more than 30,000 internationally-recognized *Editors* serving on the Editorial Boards of Hindawi's journals. Many of the journals that Hindawi publishes are included in the leading abstracting and indexing databases, including the Science Citation Index, Scopus, PubMed, INSPEC, Mathematical Reviews, and Chemical Abstracts.

Hindawi is a member of several industry organizations including the Association of Learned and Professional Society Publishers (ALPSP), the International Association of Scientific, Technical and Medical Publishers (STM), the Open Access Scholarly Publishers Association (OASPA), the Committee on Publication Ethics (COPE), the International Digital Publishing Forum (IDPF), the National Information Standards Organization (NISO), the Publishers International Linking Association (CrossRef), the Open Researcher and Contributor ID (ORCID), and Counting Online Usage of Networked Electronic Resources (COUNTER).

All of Hindawi's content is archived in Portico, which provides permanent archiving for electronic scholarly journals, as well as via the LOCKSS initiative. In December 2006, Hindawi was certified with the ISO 9001:2000 quality management system by TÜV Rheinland, and updated with the ISO 9001:2008 in April 2010.

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Fax: +1-215-893-4392

Logos: STM, ALPSP, OASPA, IDPF, ORCID, NISO, COPE, LOCKSS, PORTICO, Crossref, COUNTER

Open Book

<http://www.knowledgeunlatched.org/>

The screenshot shows the homepage of Knowledge Unlatched. At the top, the organization's name "Knowledge Unlatched" is displayed in a large green font, accompanied by its logo on the right. Below the header is a navigation menu with links for "The Books", "About Round 2", "Pilot", "About KU", "Who Benefits?", "Partners", "Media", and "Contact". Social media icons for Twitter, Facebook, and LinkedIn are also present.

The main content area features a large blue banner on the left that reads "Winner: 2014 IFLA / BRILL Open Access Award". This banner includes the logos for IFLA and Brill. To the right of the banner are four smaller promotional tiles: "Charter Members" with a building icon, "the books" with an open book icon, "Libraries pledge now!" with a mouse cursor icon, and "KU in 60 seconds" with a play button icon.

Below the banner, a paragraph of text states: "Knowledge Unlatched is helping stakeholders to work together for a sustainable open future for specialist scholarly books. Our vision is a healthy market that includes free access for end users."

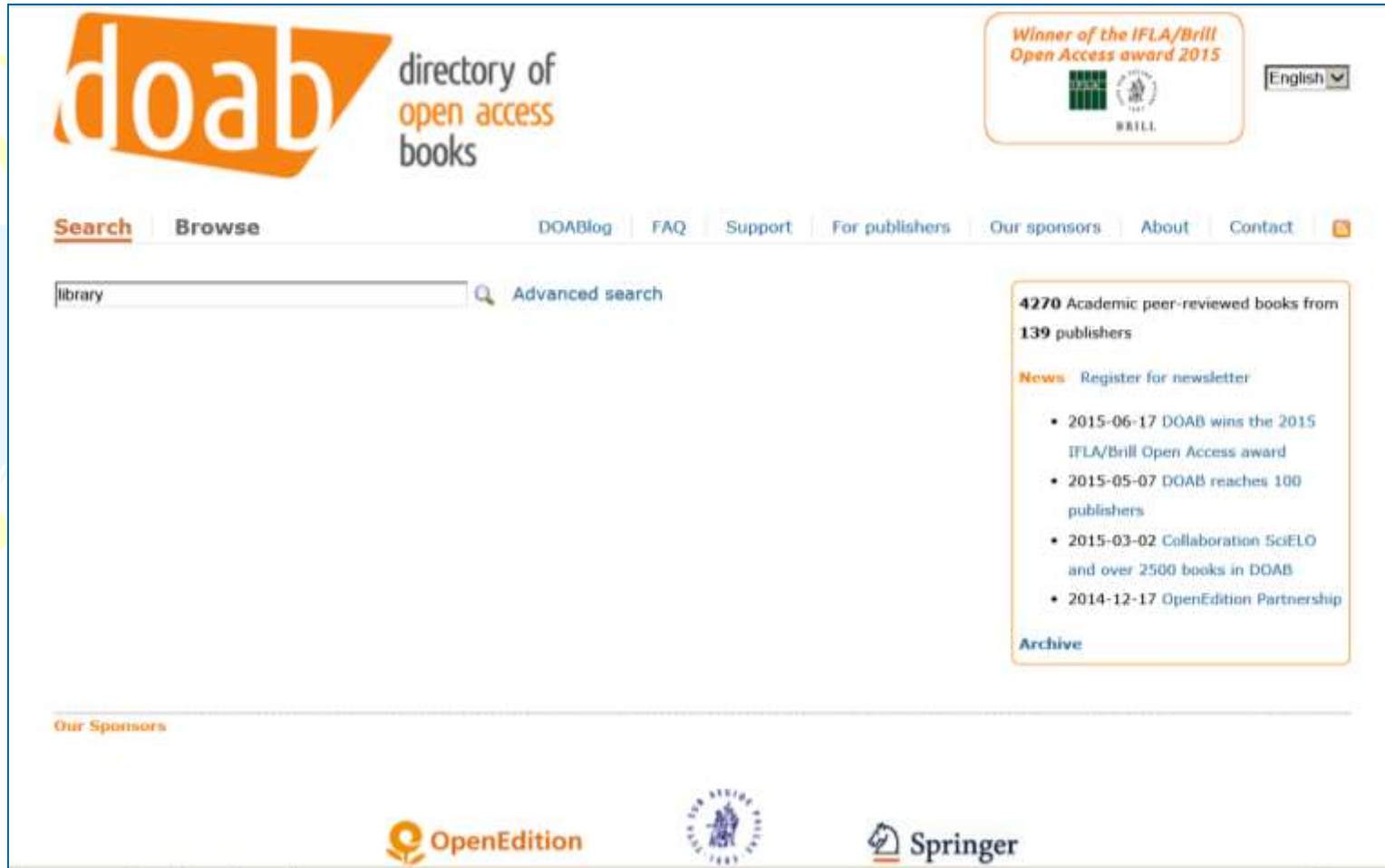


Knowledge Unlatched

<http://www.knowledgeunlatched.org/>

- KU is helping stakeholders to work together for a **sustainable** open future for specialist scholarly books. Our vision is a healthy market that includes free access for end users.

<http://www.doabooks.org/>



The screenshot shows the homepage of the Directory of Open Access Books (DOAB). The main logo features the word "doab" in a stylized orange font, followed by "directory of open access books" in a smaller, black font. In the top right corner, there is a badge that reads "Winner of the IFLA/Brill Open Access award 2015" with logos for IFLA and Brill. A language dropdown menu is set to "English". Below the logo, there are navigation links for "Search" (underlined), "Browse", "DOABlog", "FAQ", "Support", "For publishers", "Our sponsors", "About", and "Contact". A search bar contains the text "library" and a magnifying glass icon, with a link to "Advanced search". On the right side, a box displays statistics: "4270 Academic peer-reviewed books from 139 publishers". Below this, a "News" section includes a link to "Register for newsletter" and a list of recent events: "2015-06-17 DOAB wins the 2015 IFLA/Brill Open Access award", "2015-05-07 DOAB reaches 100 publishers", "2015-03-02 Collaboration SciELO and over 2500 books in DOAB", and "2014-12-17 OpenEdition Partnership". An "Archive" link is also present. At the bottom, there is a section for "Our Sponsors" with logos for OpenEdition, the University of Leoben, and Springer.

<http://open.umn.edu/opentextbooks/>

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<https://research.cehd.umn.edu/otn/>

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TOGETHER, WE ARE TRANSFORMING HIGHER EDUCATION

The Open Textbook Network (OTN) promotes access, affordability, and student success through the use of open textbooks.

We believe in the power of open education to transform higher education. Open textbooks not only contribute to student academic success, but also offer faculty the chance to reclaim their courses based on their expertise.

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<http://www.liber32015.org.uk/wp-content/uploads/2015/0/Springer-Compact.pdf>

Springer Compact – The Business Model

Publishing Fee pays for all types of peer-reviewed OA articles by corresponding authors of affiliated institutes in hybrid journals

Additional Fee pays the costs for accessing (incl archival rights) all SpringerLink journals



Springer Compact offers our partners significantly more value

OA 期刊品質問題

<https://scholarlyoa.com/2016/01/05/bealls-list-of-predatory-publishers-2016/>

The screenshot displays the website 'Scholarly Open Access' with the subtitle 'Critical analysis of scholarly open-access publishing'. The navigation menu includes 'Home', 'About the Author', 'Disclaimer', 'LIST OF PUBLISHERS', and 'LIST OF STANDALONE JOURNALS'. The main content area is titled 'Beall's List of Predatory Publishers 2016' and features a large graphic with the text 'BEALL'S LIST of PREDATORY Open access PUBLISHERS' and the year '2016'. To the right of the graphic is a search bar with a 'Search' button. Below the search bar are sections for 'RECENT POSTS' and 'ARCHIVES'. The 'RECENT POSTS' section lists several articles, and the 'ARCHIVES' section includes a 'Select Month' dropdown menu.

Scholarly Open Access
Critical analysis of scholarly open-access publishing

Home About the Author Disclaimer LIST OF PUBLISHERS LIST OF STANDALONE JOURNALS

Other pages

Beall's List of Predatory Publishers 2016

BEALL'S LIST of PREDATORY Open access PUBLISHERS
2016

Search

RECENT POSTS

- Two More Unneeded, Open-Access Publishers Recently Appeared
- Three New Low-Quality Open-Access Publishers
- The Weaknesses of Journal Whitelists
- Company Offers Academic Ghostwriting Service
- More Questionable Articles from MDPI

ARCHIVES

Select Month

Jeffrey Beall : 揭發OA 期刊黑名單

<https://scholarlyoa.com/about/>

Scholarly Open Access

Critical analysis of scholarly open-access publishing

Home About the Author Disclaimer LIST OF PUBLISHERS LIST OF STANDALONE JOURNALS

Other pages

About the Author

Jeffrey Beall

I work as a librarian at Auraria Library, University of Colorado Denver, in Denver, Colorado.

An academic librarian for over 25 years, I have published extensively in the areas of metadata, full-text searching, and information retrieval.

My interest in scholarly open-access publishing began in 2009 when I reviewed the publisher [Bentham Open](#) in *The Charleston Advisor*, a journal that reviews electronic resources



Jeffrey Beall

RECENT POSTS

- Two More Unneeded, Open-Access Publishers Recently Appeared
- Three New Low-Quality Open-Access Publishers
- The Weaknesses of Journal Whitelists
- Company Offers Academic Ghostwriting Service
- More Questionable Articles from MDPI

ARCHIVES

Select Month

<http://www.nature.com/news/open-access-index-delists-thousands-of-journals-1.19871>

The screenshot shows the Nature website interface. At the top, the 'nature' logo is displayed with the tagline 'International weekly journal of science'. Navigation links include Home, News & Comment, Research, Careers & Jobs, Current Issue, Archive, Audio & Video, and For Authors. The main article title is 'Open-access index delists thousands of journals' by Monya Baker, dated 09 May 2016. A sub-headline reads: 'Many publications did not reapply after leading directory tightened its quality criteria.' The article text states that a leading index of open-access journals is set to shrink by more than one-quarter after delisting around 3,300 titles. A section titled 'COURSE CORRECTION' includes a line graph showing the number of journals (in thousands) over time, peaking at approximately 11.5 thousand before a sharp decline. The graph is accompanied by text explaining that the Directory of Open Access Journals (DOAJ) has delisted thousands of publications to improve quality. A sidebar on the right features a 'Muzzled' section with an image of a flask and a 'LEADING-EDGE TECHNOLOGY' section. A list of recent articles is also visible.

nature International weekly journal of science

Home | News & Comment | Research | Careers & Jobs | Current Issue | Archive | Audio & Video | For Authors

News & Comment | News | 2016 | May | Article

NATURE | NEWS

Open-access index delists thousands of journals

Many publications did not reapply after leading directory tightened its quality criteria.

Monya Baker

09 May 2016

[Rights & Permissions](#)

A leading index of open-access journals is set to shrink by more than one-quarter after delisting around 3,300 titles as part of an effort to exclude questionable and inactive publishers.

The Directory of Open Access Journals (DOAJ), which at the beginning of the year listed more than 11,000 open-access academic journals, announced two years ago that it would be tightening its standards for inclusion. It asked every journal in its index to provide more details about their operations so it could ensure that they adhere to basic publishing standards.

COURSE CORRECTION
The Directory of Open Access Journals has delisted thousands of publications in an effort to improve the quality of its index.

Time	Number of journals (thousands)
Start	1.5
Mid	4.0
Peak	11.5
End	8.0

The crackdown came after the index was criticized for including 'predatory publishers' — journals that profess to publish articles openly, often after charging fees, but that are either outright scams or do not provide expected services such as a minimal standard of peer review or archiving.

The DOAJ is now striking off journals that did not submit the necessary paperwork in time, says Lars Bjørnshauge, the directory's managing director. He says that he is "absolutely sure" that the majority of the journals that did not reapply are not publications with poor ethics, rather, he thinks, they are small outfits that are unfamiliar with

Muzzled

Nine years of censorship
Canadian scientists are now allowed to speak out about their work — and the government policy that had restricted communications.

LEADING-EDGE TECHNOLOGY
Quality excellence in analog mixed signal, power & embedded Control.

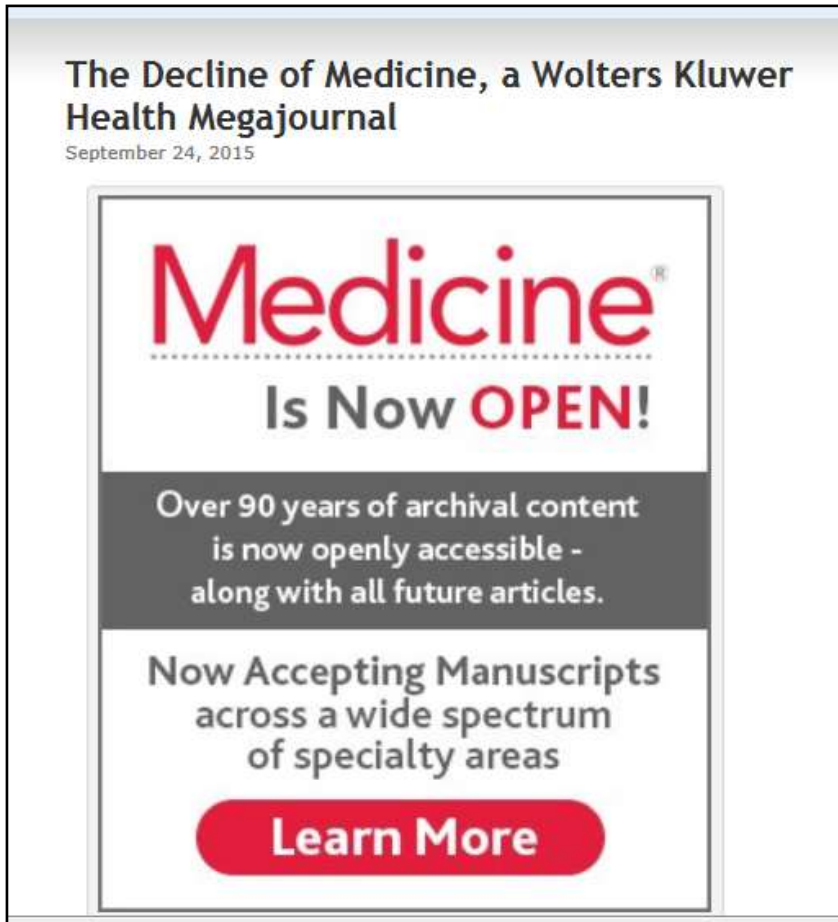
Recent | Read | Commented

1. **History: A chemist's contradictions**
Nature | 11 May 2016
2. **Biodiversity: England's green and well-known land**
Nature | 11 May 2016
3. **Gene variants linked to success at school prove divisive**
Nature | 11 May 2016

Newsletter

The Decline of Medicine, a Wolters Kluwer Health Megajournal

<https://scholarlyoa.com/2015/09/24/the-decline-of-medicine-a-wolters-kluwer-health-megajournal/#more-5993>



The Decline of Medicine, a Wolters Kluwer Health Megajournal
September 24, 2015

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is now openly accessible -
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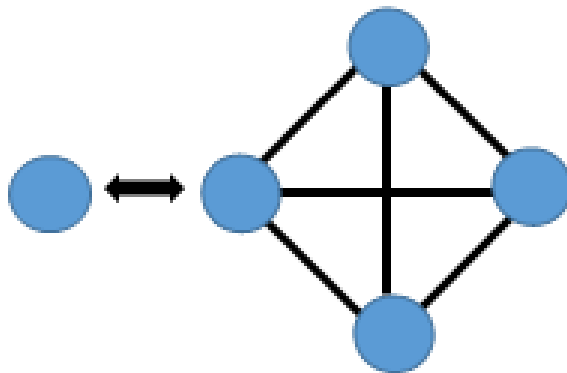
- In 2013, published 6 issues.
- In mid-2014, when the switch to APC,
- The journal began publishing weekly issues.
- Each issue has 20 to 40 articles, and the author fee is \$1,400.
- If about 30 articles are published per issue, that translates into \$2,184,000 in income for the year (30 articles x 52 issues x \$1,400),

學術傳播蛻變下大學圖書館 因應之道

- 營運的策略
 - OCLC 的觀點
 - 各校的應變
- 大學圖書館的角色

The Evolving Scholarly Record : Scope, Stakeholders, and Stewardship
Brian Lavoie, CNI Spring Meeting, April 1, 2014, St. Louis, Missouri
<http://www.oclc.org/research/presentations.htm>

Conscious coordination



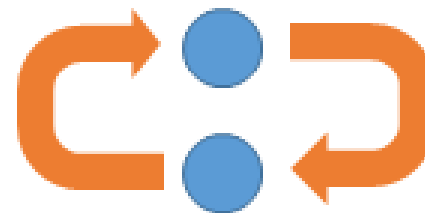
System-wide awareness



Explicit commitments



Division of labor

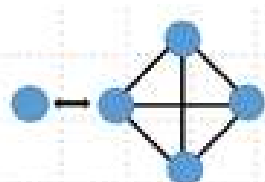


Reciprocal access

The Evolving Scholarly Record : Scope, Stakeholders, and Stewardship

Brian Lavoie, CNI Spring Meeting, April 1, 2014, St. Louis, Missouri
<http://www.oclc.org/research/presentations.htm>

Examples



System-wide awareness



Explicit commitments

marc 583

PAPR | PRINT ARCHIVES
PRESERVATION REQUESTS



Division of labor



Reciprocal access



Use of print collections

Pittsburgh study
1979

40% of collection never circulates

If a book isn't borrowed during first 6 years, only 2% chance it will ever be used

Cornell study
2010

55% of books purchased since 1990 never borrowed

65% of books purchased in 2001 hadn't been borrowed

13
%

Average circulation from open shelf collections

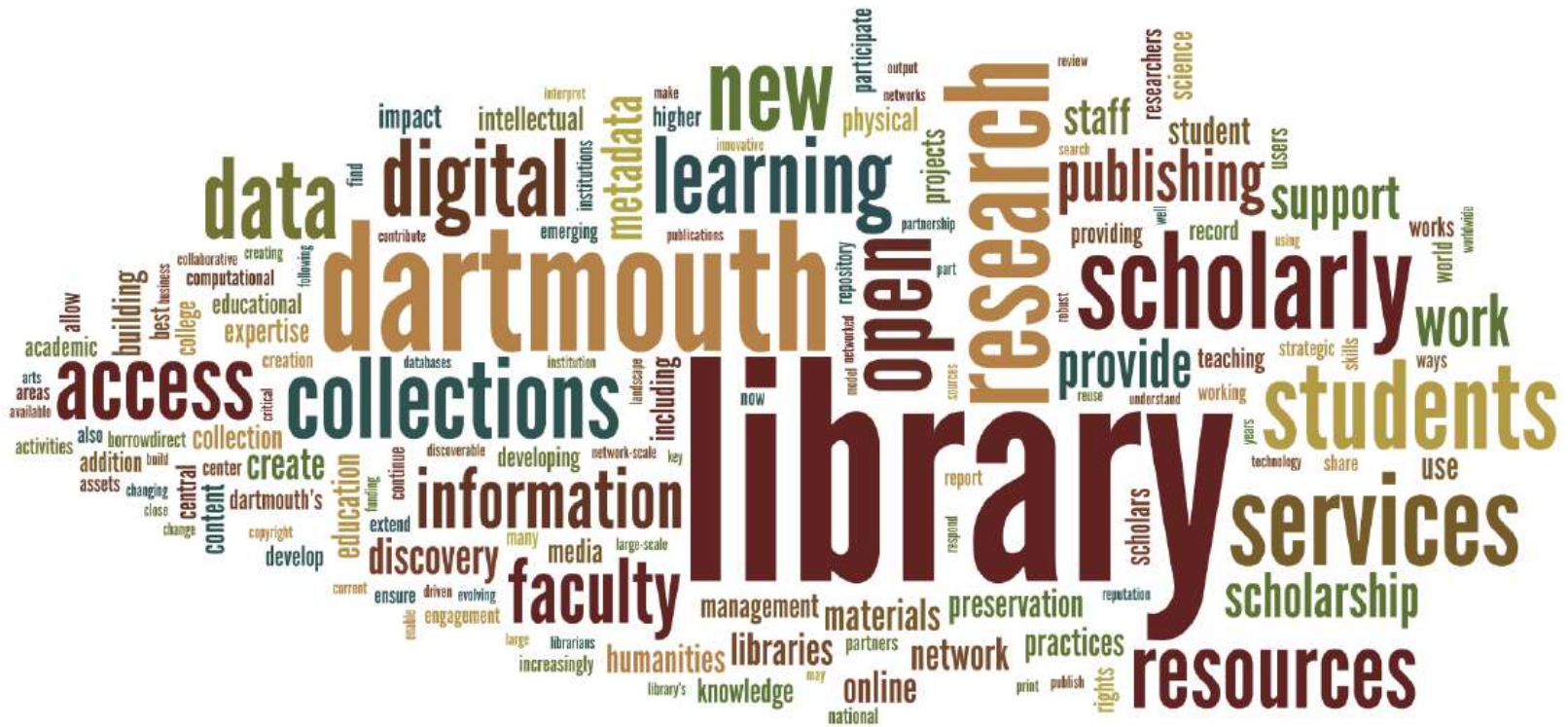
1%

Average circulation from high density collections

0%

Average circulation from off-site storage

Dartmouth College Library : Strategic Thinking 2015--2020



Dartmouth College Library : Strategic Thinking 2015--2020

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Sustaining the scholarly record

- Open Access
- Digital Publishing
- Student Publishing
- Digital Preservation
- New Scholarly Discourse

New Scholarly Discourse

(1/2)

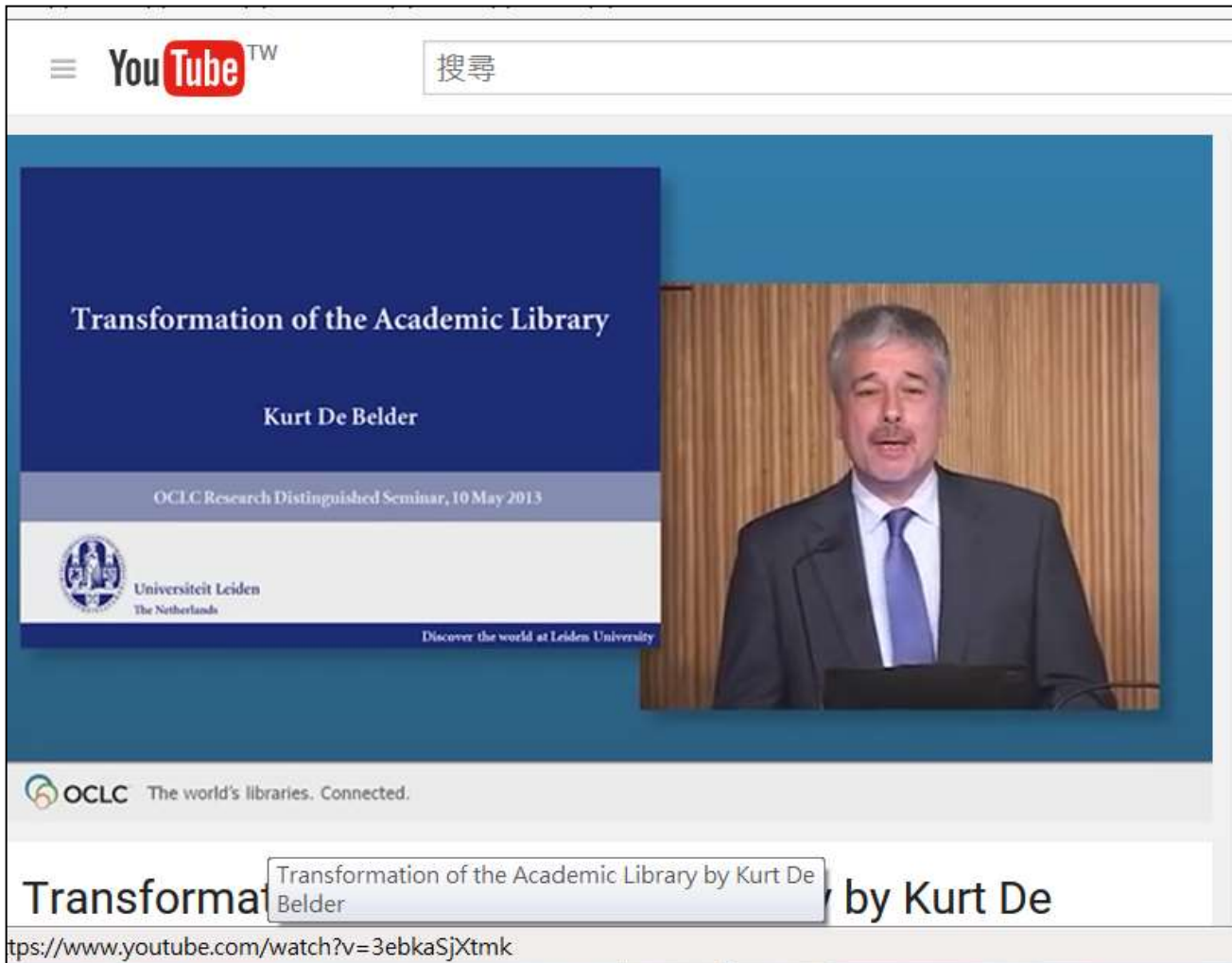
- OCLC Research's The Evolving Scholarly Record identifies an “aftermath” phase of materials that authors may wish to link to or store with their works, including online discussion, comments, and annotations, and conference presentations. The Library would like to contribute to the management of these new components of the scholarly record.

New Scholarly Discourse

(2/2)

- The 2010 final report from the National Science Federation's Blue Ribbon Taskforce on Sustainable Digital Preservation and Access recommended exactly this, saying that "Libraries, scholars, and professional societies should develop selection criteria for emerging genres in scholarly discourse."

<https://www.youtube.com/watch?v=JNLN72Y-fUI>



The image shows a YouTube video player interface. At the top left is the YouTube logo with a search bar containing the Chinese characters "搜尋". The main content area features a presentation slide on the left and a video thumbnail on the right. The slide has a dark blue background with the title "Transformation of the Academic Library" in white, followed by the speaker's name "Kurt De Belder". Below this, it says "OCLC Research Distinguished Seminar, 10 May 2013" and includes the logo of Universiteit Leiden with the text "The Netherlands" and "Discover the world at Leiden University". The video thumbnail shows a man in a suit speaking at a podium. Below the video player is the OCLC logo and the text "The world's libraries. Connected.". At the bottom, there is a search bar with the text "Transformation of the Academic Library by Kurt De Belder" and the video title "Transformation of the Academic Library by Kurt De Belder". The URL "https://www.youtube.com/watch?v=3ebkaSjXtmk" is visible at the very bottom.

YouTube™ 搜尋

Transformation of the Academic Library

Kurt De Belder

OCLC Research Distinguished Seminar, 10 May 2013

Universiteit Leiden
The Netherlands

Discover the world at Leiden University

OCLC The world's libraries. Connected.

Transformation of the Academic Library by Kurt De Belder

Transformation of the Academic Library by Kurt De Belder

<https://www.youtube.com/watch?v=3ebkaSjXtmk>



Leiden University Libraries – Strategic plan 2011-2015: Partner in Knowledge

<http://media.leidenuniv.nl/legacy/meerjarenbeleidsplan-ubl-2011-2015.pdf>

Discover the world at Leiden University

Partner in Knowledge (1)

- Library to become expert centre digital information for research and teaching.
- New areas of expertise in **research support**:
 - Virtual Research Environments (production)
 - Data management & curation (pilots)
 - Text & data mining (exploring project)
 - Copyright (production)
 - GIS (exploring project)
 - Publication support (exploring project)
 - [further areas to be identified through in-depth focus group discussions with researchers]

Partner in Knowledge (2)

- New developments in **teaching support**
 - VRE' s for education (pilots)
 - Thesis repository (BA/MA) (production)
 - Digital info skills in curriculum (production)
 - Support for OpenCourseWare (pilots)
 - Support for MOOCS (pilots)
 - Library Learning Centres (space) (production)

Partner in Knowledge (3)

- Important for Leiden University Libraries:
 - One organisation in 2010
 - Strategic plan developed with library staff
 - Changes in function profiles (e.g. subject specialists)
 - Within appointments time explicitly allocated for development of new expertise
 - Focus on working in projects
 - Sufficient funding for staff training and development

Partner in Knowledge (4)

- Approach
 - Increased emphasis on expertise approach instead of subject approach.
 - Balance between own expertise and mediation.
 - Collaboration is central: with faculty & researchers, research groups, teaching & research units, academic affairs, computing centre, CWTS and external partners such as SURF, national data archives (DANS & 3TU.Datacentre), Microsoft Research.
 - Bottom up but accompanied by strategic discussion at leadership level of university.

http://davidlankes.org/?page_id=7071

The **MISSION** of **LIBRARIANS**
is to **IMPROVE SOCIETY**
through **FACILITATING**
KNOWLEDGE CREATION in
their **COMMUNITIES**



<http://quartz.syr.edu/rdlankes/Presentations/2014/Wisc-Lankes.pdf>

**Bad Libraries Build Collections,
Good Libraries Build Services,
Great Libraries Build Communities**



R. David Lankes,
The New Librarianship Field Guide, MIT Press, 2016.

Academic libraries and librarians

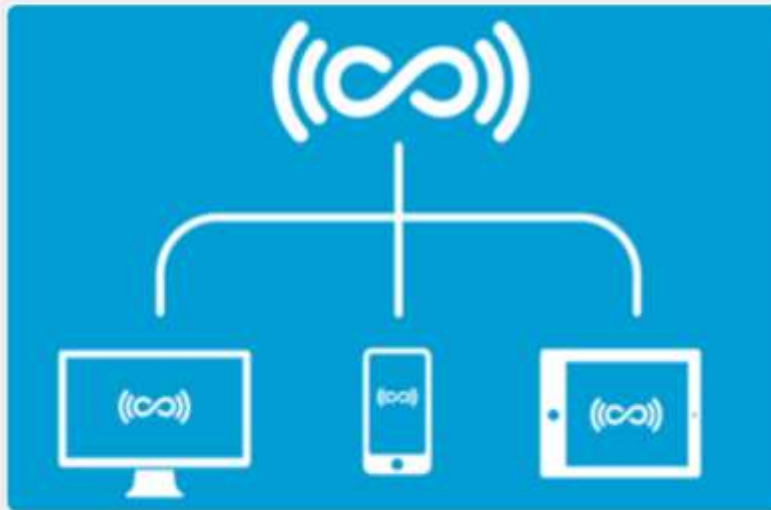
- should create an active research agenda
- work shoulder to shoulder with students
- incubate new forms of instruction
- transform the university press into a community publisher that also produces apps and courseware
- help departments make informed tenure and promotion decisions.

“Where Libraries Go From Here” By Carl Straumsheim , *Inside Higher ED*, June 8, 2016
https://www.insidehighered.com/news/2016/06/08/qa-author-book-how-librarians-can-better-serve-higher-education?utm_source=Inside+Higher+Ed&utm_campaign=ba0d4e3053-DNU20160608&utm_medium=email&utm_term=0_1fcbc04421-ba0d4e3053-199153489#.V1jE0e61x3Q.twitter

<http://www.oclc.org/en-US/member-stories/share.html>

SHARE

Embed your library in the research process



"Librarians need to be more involved in the process of scholarship, not just collecting its output."

Judy Ruttenberg

Program Director for Transforming Research Libraries, Association of Research Libraries



Herbert Van de Sompel
OCLC ESR, Evanston, IL, March 23 2015



結語

- 正式與非正式傳播管道融合
- 人文與科技趨向一致
- 情境導向的呈現方式：**Context, silo**
- 新的傳播工具、平臺
- 營運的策略日新月異
- 館員的角色必須重新定位
 - － 融入研究、教學的流程
 - － 發揮對所屬機構的影響力
- 創新帶來正、負影響



謝謝聆聽
敬請指教!