



# OCLC Research Update

ALA Midwinter (Philadelphia, PA, USA) 2014-01-27



Eric Childress

# OCLC Research

- Leading research group devoted exclusively to exploring the challenges facing libraries & archives
- Advances OCLC's public mission through...



Innovation Lab

## Advanced Development

Experiment with new processes, software, systems

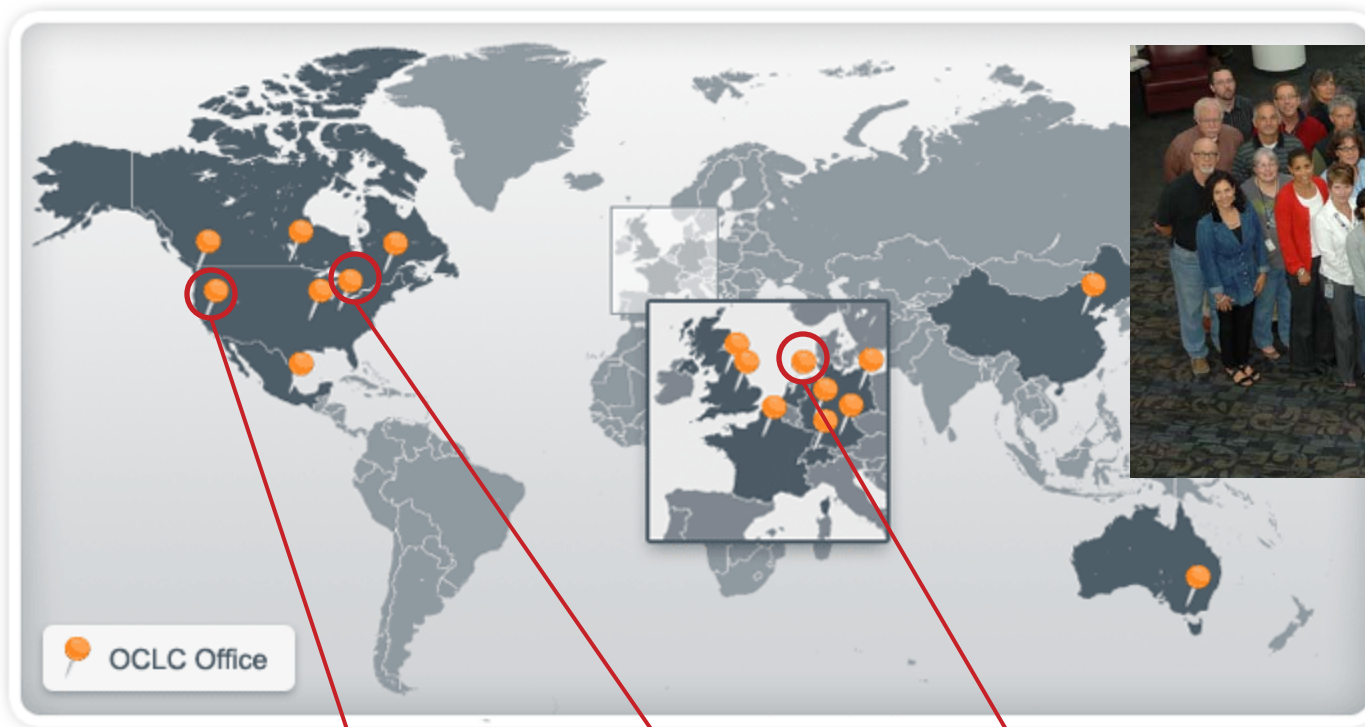
## Community R&D



Identify challenges, evaluate responses, survey, investigate, analyze, report, prototype, data work...

## Member/Partner Engagement



Convene, connect, shape, influence





 San Mateo, California  
 12

 Dublin, Ohio  
 30

 Leiden, Netherlands  
 3

## Search

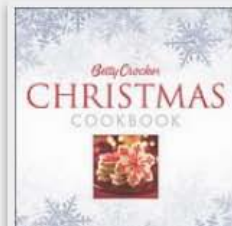
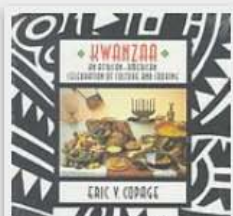
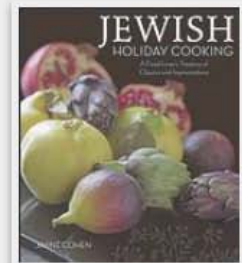
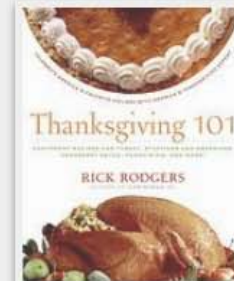
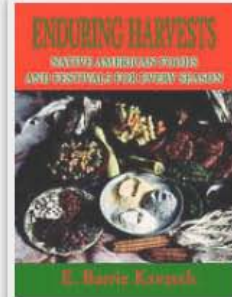
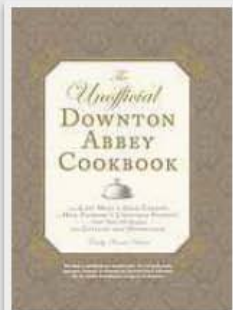
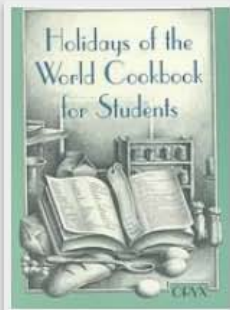
Search Title, Title by Author, ISBN or OCLC #

Search

[ADVANCED SEARCH](#)

### About Cookbook Finder

Cookbook Finder is an experimental, works-based application that provides access to thousands of cookbooks and other works about food and nutrition described in library records. You can search by person, place, topic (e.g., course, ingredient, method and more) and browse related works by author and topic.



## Search

Search Title, Title by Author, ISBN or OCLC #

Search

[ADVANCED SEARCH](#)



### Lidia's Italy in America

by: [Bastianich, Lidia](#)

[4 editions in 1 languages held by 841 libraries](#)

Date: 2011

Book

SUMMARY

"In this companion book to her upcoming public television series, Lidia takes us on a road trip into the heart of Italian American cooking today. As she explores the multifaceted approach to this utterly delectable and distinctive cuisine, we come to see that every kitchen and every Italian community is different. Clues are buried in each dish: the Sicilian-style semolina bread and briny olives in New Orleans muffuletta sandwiches, the Neapolitan crust of New York pizza, and the smoky provola that tops braised chicken breasts in Philadelphia. She talks with creative cooks all over the country—farmers, housewives, butchers, fishermen, and food entrepreneurs—about the ingredients they use, their kitchen secrets, and of course, their favorite recipes: from Rhode Island Clams Casino and Baltimore Crab Cakes to Bronx Eggplant Parmesan and Boston Cream Cakes. And she gives recognition where it is long overdue to the many industrious Italians across the country who have honored the traditions of their homeland in a delicious new style. A loving exploration of a fascinating cuisine—as only Lidia could give us" — Provided by publisher.

## Genres, Characters, Subjects & More

GENRES

[Cookbooks](#)

SUBJECTS

[Italian American families](#) [Cooking, Italian](#) [Cooking](#)

NAMES

[Manuali, Tanya Bastianich](#)

## Related Works

### OTHER WORKS BY BASTIANICH, LIDIA





[Find more works by Bastianich, Lidia](#)

### SIMILAR WORKS TO LIDIA'S ITALY IN AMERICA



# Most used title words





The hangout spot for libraries, archives, and museums

**ABOUT**

HangingTogether is a place where some of the staff at OCLC Research, particularly those of us who support the OCLC Research Library Partnership, can talk about the intersections we see happening between these different types of institutions. We visit partners, go to conferences, and take note of the interesting things we see along the way. Stop in, stay awhile, and hang out.

*We must all hang together, or assuredly we shall all hang separately.* Benjamin Franklin

**CATEGORIES**

- » Architecture and standards (48)
- » Archives and Special Collections (141)
- » Digital Preservation (52)
  - » digitization (16)
  - » ebooks (4)
  - » Europe (32)
  - » Identifiers (4)
- » Infrastructure (12)
- » LAM (Libraries, Archives, Museums) (107)
  - » Libraries (116)
- » Library Management (14)
- » Managing the Collective Collection (100)
- » Measurement and Behaviors (34)
  - » Miscellaneous (260)
- » Modeling new services (99)
  - » MOOCs (7)
  - » Museums (57)
- » OCLC Research Library Partnership (20)
- » Rare Books (6)
- » Renovating Descriptive Practice (102)

« Countries of Publication in WorldCat

**The Most Used English Title Words in WorldCat**

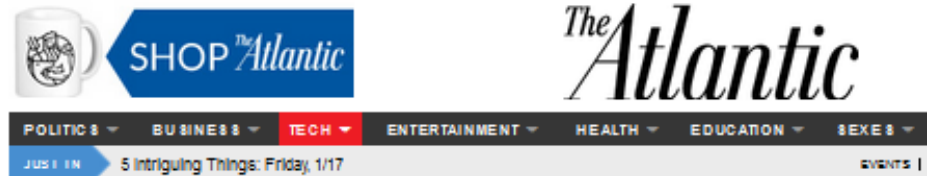
January 3rd, 2014 by Roy

This is another installment in my continuing series of eclectic, peripatetic, and yes, let's just say it: "pathetic" data investigations. The most recent identified the top countries of publication for WorldCat records. For whatever reason, I got it into my head to determine which English words appear the most in the main title of WorldCat items.

Clearly there are at least two ways to go about this: a) a formal, well-designed, highly replicable and ultimately near perfect investigation, or b) a slapdash, fast, seat-of-your pants investigation of questionable merit. When given such a choice, I find the latter completely irresistible. So I took part of my day today and did exactly that.

Since I already had code on our research cluster affectionately named "Gravel" that could extract a specific subfield, I powered it up and sucked out all of the 245 \$a fields from WorldCat. As part of that process, I extracted only unique strings. The sharp ones among you have likely noticed a couple flaws already: 1) I was too lazy to filter based on language, and 2) I was too careless to normalize the title strings.

Flaws have never stopped me before, so I blazed on as if nothing was amiss. Then I threw that monster file onto another computer where I didn't have to worry about interfering with any of the actually useful work that my colleagues were doing on Gravel (you're welcome). There I wrote a special-purpose Perl script to take each title string, split it into individual words, lowercase them, and count up the occurrences. I dabbled in creating a "stop-words" list of useless words like "a" and "an" and "and" and "the" (ad infinitum) but that quickly began looking like a rabbit hole. As I was only really interested in identifying the top 30 or so words I figured my human eyeball would be sufficient to trap those in the end. Likewise with the foreign words.



## In Books, Movies, and Media, the Most Popular Title Word Is 'New'

Don Draper was right: "The most important idea in advertising is *new*."

ROBINSON MEYER | JAN 8 2014, 1:29 PM ET

64

Share

434

Tweet

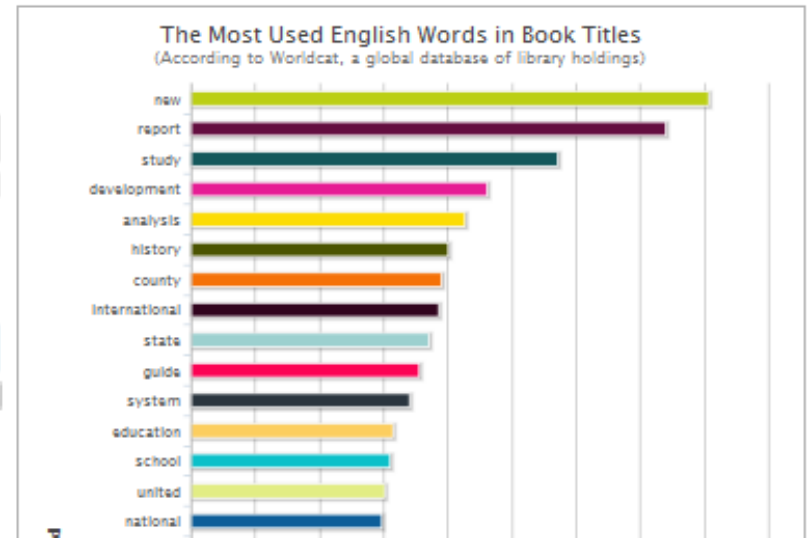
10

+1

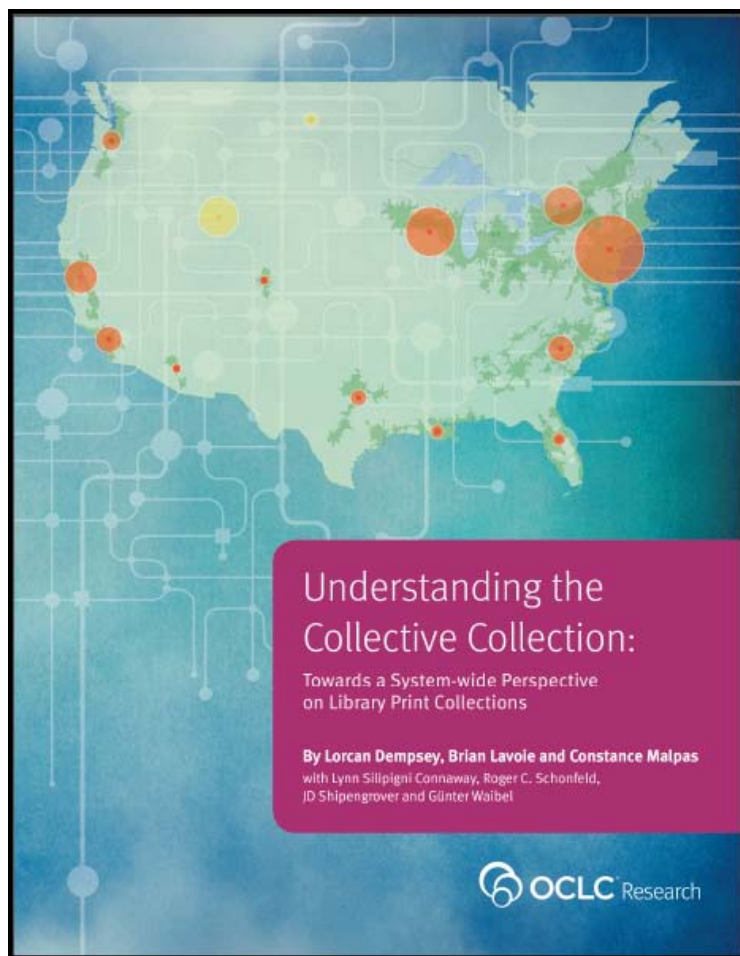
5

Share

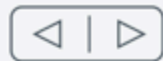
More



# *Understanding the Collective Collection*



- Collection of articles and reports (222 p.)
  - Explores “collective collection” / managing down print / shift to digital
- Available:
  - Online (\$0): <http://www.oclc.org/research/publications/library/2013/2013-09r.html>
  - Order hardcopy (\$32): [OCLC Online Service Center](#)
  - A sample report will be on display at the OCLC booth



http://oclc.org/research.html



[About Us](#) [Contact Us](#)

Activities

Innovation Lab

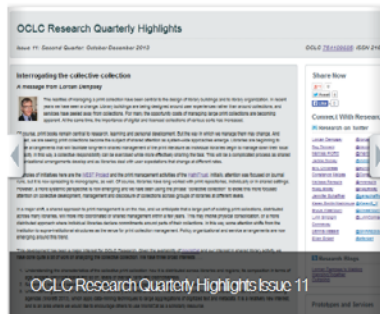
Partnership

People

News & Events

Publications

Opportunities



## News

### [Issue 11 of OCLC Research Quarterly Highlights now available](#)

17 January 2014

This periodic bulletin gathers items from the previous quarter of work in OCLC Research, the OCLC Innovation Lab, and the OCLC Research Library Partnership. Issue 11 covers the period of October-December 2013.

### [Save the date: OCLC Research Library Partnership meeting 10-12 June 2014 in Amsterdam](#)

10 January 2014

Exclusively for OCLC Research Library Partners, this gathering will focus on supporting the academic research process.

### [Lynn Silipigni Connaway appointed to Chair of Excellence program at Universidad Carlos III de Madrid](#)

10 January 2014

This six month appointment will expand OCLC Research's capability for innovation, and further facilitate international collaboration between OCLC Research and library and information science professionals and scholars in Europe.

[More news »](#)

## Publications

### [Understanding the Collective Collection: Towards a System-wide Perspective on Library Print Collections](#)

by Lorcan Dempsey, Brian Lavoie, Constance Malpas, Lynn Silipigni Connaway, Roger C. Schonfeld, JD Shipengrover, and Günter Walzel

## Follow Us



## We Tweet

**OCLC Research**  
Tweets from a list by OCLC

**Merrilee Proffitt** @MerrileeAm 9m  
Minnesota I salute you. "Bundle up and be inspired: Winter cyclists of Minnesota" [buff.ly/LYV73](#)

**Merrilee Proffitt** @MerrileeAm 15m  
And moderated by @SkipPrichard! RT @BryanAlexander: @MerrileeAm I'm looking forward to a rocking panel w/ @audreywatters and @anyaTanya

**Constance Malpas** @ConstanceM 25m  
RT @OCLC: Issue 11 of OCLC Research Quarterly Highlights now available [oclc.org/14q2](#)

**Melissa Renspie** @mrenspie 37m  
Issue 11 of OCLC Research Quarterly Highlights now available [oclc.org/14q2](#)

**Constance Malpas** @ConstanceM 42m  
Colourful city: bringing bygone Dublin back

Twitter Feeds

## Upcoming Events

**JAN 22** 22 January 2014  
[OCLC Research Update in Philadelphia: Working with Special Collections and Wikipedia](#)

At this gathering you can join PACSOL members for an informal update from OCLC Research focusing on libraries, archives and their relationship to Wikipedia.

**JUN 10** 10 June 2014 - 12 June 2014  
[OCLC Research Library Partnership Meeting](#)

Exclusively for OCLC Research Library Partners, this gathering will focus on supporting the academic research process. [Tweet: #orlp](#)

[More events »](#)

## Recent Events

2014 Partnership Meeting:  Amsterdam, Netherlands (10-12 June)

# Presentations



## Scholars' Contributions to VIAF

Karen Smith-Yoshimura  
OCLC Research

OCLC Research Update, Midwinter ALA Philadelphia  
27 January 2014



Karen  
Smith-Yoshimura



## Registering Researchers in Authority Files

Karen Smith-Yoshimura  
OCLC Research


OCLC Research Update, Midwinter ALA Philadelphia  
27 January 2014

ALA Midwinter, January 27, 2014  
OCLC Research Update

## Reordering Ranganathan: Shifting User Behaviors, Shifting Priorities

Lynn Silipigni Connaway, Ph.D.  
Senior Research Scientist  
OCLC  
connawal@oclc.org  
@LynnConnaway

Ixchel M. Faniel, Ph.D.  
Associate Research Scientist  
OCLC  
fanieli@oclc.org



Lynn  
Silipigni  
Connaway



Ixchel  
Faniel



# Scholars' Contributions to VIAF

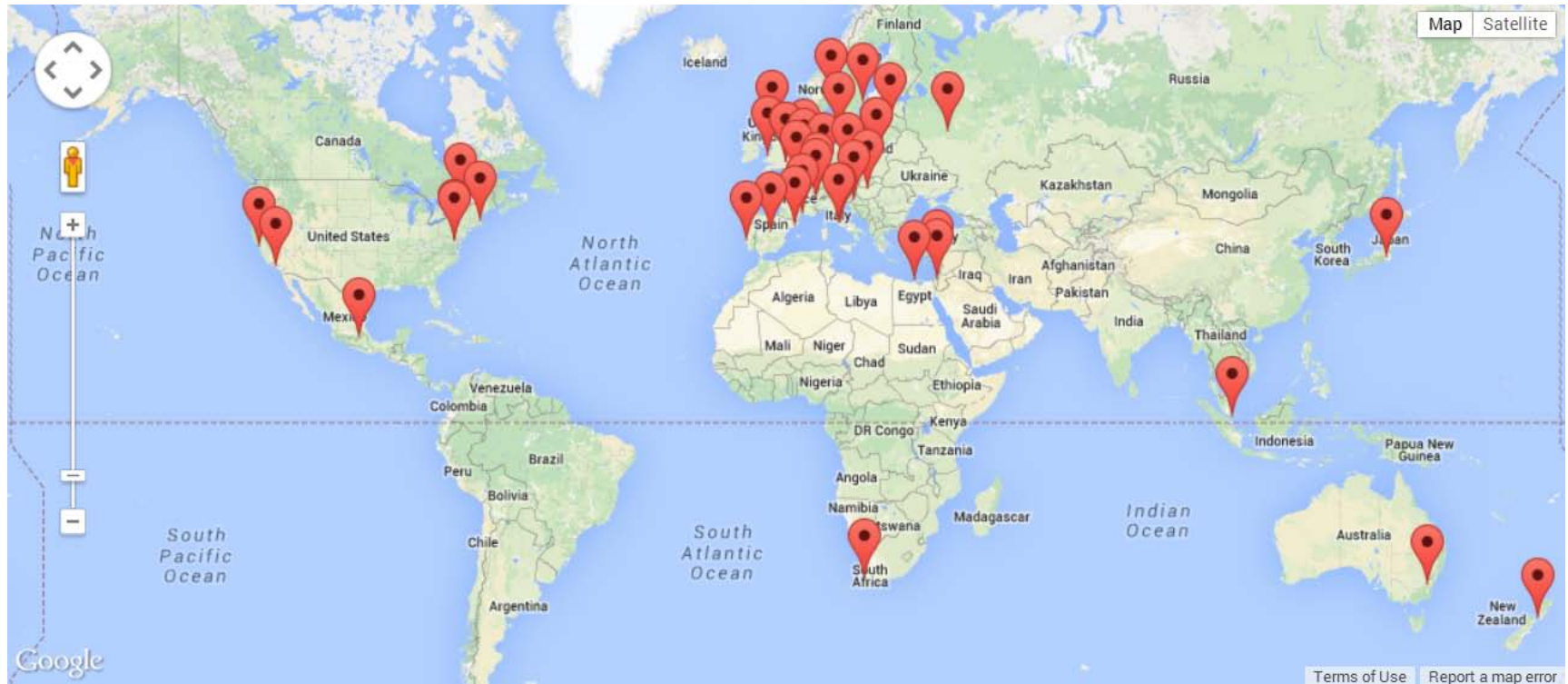
Karen Smith-Yoshimura

OCLC Research

OCLC Research Update, Midwinter ALA Philadelphia  
27 January 2014



# VIAF™ (Virtual International Authority File)





## Themistius

Textgroups: **tlg2001**

Tlg id: tlg2001

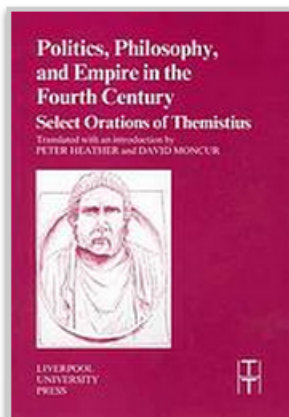
Alt id: lccn n 79127090;tlg2001

Name: Themistius

Alt names: **تامسطيوس**; Themistios; Θεμιστιος; Thémistios; תמיסטיאוס; Temistio; Temístio; Фемистий; Temistio; Themistius, Sophista; Them.

Field of activity: Sophist; Philosopher; Orator; Commentator

Notes: Machine-derived non-Latin script reference project; Non-Latin script references not evaluated; Substitute; Julianus, Apostata, Emperor of Rome. Lettera al filosofo Temistio, 1979 (a.e.) t.p. (Temistio); Colpi, B. Die paideia des Themistios, c1987; TLG Canon of Greek Authors and Works, Third Edition.; Smith's Dictionary of Greek and Roman Biography and Mythology, Vol , 1867, p. 1; ; Brill's New Pauly:


**Themistius**

**Themistius, ca317-ca388**

**Themistius Euphrades Paphlago, 0317?-0388?**

**Themistius, c. 317-c. 388**

**Themistios, ca 317-ca 388**

**Themistius 317-388**

**Themistius (ca 317-388).**

**Themistius, ca 315-ca 390**


VIAF ID: 100219934 (Personal)

Permalink: <http://viaf.org/viaf/100219934>

ISNI-test: [0000 0001 0928 6445](https://isni.org/0000-0001-0928-6445)


### 4xx's: Alternate Name Forms (44)

400 \_\_ ‡a Θεμιστιος



400 \_\_ ‡a Фемистий



## Search

Select Field:

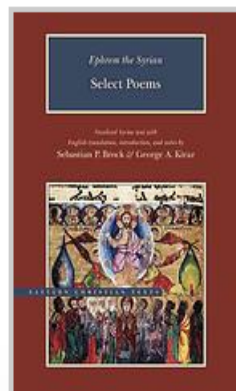
All Headings

Select Index:

All VIAF

Search Terms:

ephraem



ܥܦܪܝܡ



Ephraem, Syrus, ca. 306-ca. 373

Ephraem, Syrus, Saint, 303-373

Efrem (św. ; ca 306-373).

Ephraem Syrus 306-373

Efrén, Santo

Éphrem, saint, 0306?-0373

Efraim Syriem, helgon, 306-373

Ephraem Syrus, s., 303-373

Efrém Syriský, svatý, 306-373

Ephrem the Syrian

VIAF ID: 100177778 (Personal)

Permalink: <http://viaf.org/viaf/100177778>

## ܥܦܪܝܡ (Ephrem)

306-373

Ephrem was a Christian teacher and prolific writer of the 4th century C.E. in Syria and northern Mesopotamia. He is a key author in the Syriac traditions and revered as a saint in a wide variety of Christian churches.

## Names

- ܥܦܪܝܡ (The Syriac Reference Portal ([syriaca.org](http://syriaca.org)))
  - Ephrem (The Syriac Reference Portal ([syriaca.org](http://syriaca.org)))
- Ephrem (Gorgias Encyclopedic Dictionary of the Syriac Heritage, Entry 197)
- St. Ephraim the Syrian (Barsoum (English), Page 229)
  - مار افرام الملقان السرياني (Barsoum (Arabic), Entry 9, page 196)
  - ܥܦܪܝܡ, ܡܪܝܬܐ (Barsoum (Syriac), Page 218)
  - ܡܪܝܬܐ, ܥܦܪܝܡ (Barsoum (Syriac), Page 218)
- ܥܦܪܝܡ (Abdisho (YDQ), Page 69)
  - ܥܦܪܝܡ (Abdisho (YDQ), Page 69)
  - ܥܦܪܝܡ (Abdisho (BO III), Page 61)
- Ephraem, Syrus, Saint, 303-373
- Éphrem, saint
- Der Syrer, Ephraem



# Registering Researchers in Authority Files

Karen Smith-Yoshimura

OCLC Research

OCLC Research Update, Midwinter ALA Philadelphia

27 January 2014

# Scholarly output impacts the reputation and ranking of the institution



We initially use *bibliometric analysis* to look at the top institutions, by publications and citation count for the past ten years...

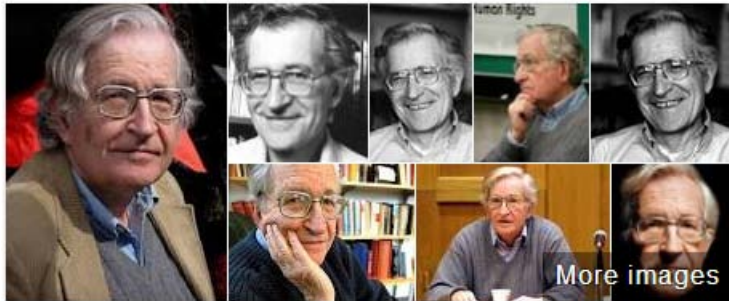


Universities are ranked by several indicators of academic or research performance, including... highly cited researchers...



Citations... are the best understood and most widely accepted measure of research strength.

# A scholar may be published under many forms of names



Noam Chomsky

Linguist

Also published as:

Avram Noam Chomsky

N. Chomsky

# Same name, different people

## Michael Conlon



Mike is Associate Director and Chief Operating Officer of the University of Florida Clinical and Translational Science Institute, and Director of Biomedical Informatics, UF College of Medicine. His responsibilities include development of academic biomedical informatics, expansion and integration of research and clinical information resources and strategic planning for academic health and university research. As principal investigator of the National Institutes of Health VIVO project, Mike led a team of 120 investigators at seven schools in the development, implementation and advancement of VIVO, an open source, semantic web application for research discovery. In his spare time, Mike enjoys his family and friends, Florida Gators football, and Python programming.

Conlon, Michael. 1982. *Continuously adaptive M-estimation in the linear model*. Thesis (Ph. D.)--University of Florida, 1982.

## Michael Conlon

Michael Conlon QC is a practising barrister at Pump Court Tax Chambers, specialising in revenue law. He is President of the VAT Practitioners Group and of the Institute of Indirect Tax, of which he is also a Fellow. He is a Chartered Tax Adviser (Fellow) and a member of numerous other professional and learned bodies. He is a member of the Editorial Boards of *Tax Journal* and *De Voil's Indirect Tax Intelligence*. He is a frequent writer and lecturer on taxation topics.



Volume 33 Number 3

SEPTEMBER 2012  
ISSN: 1324-4272

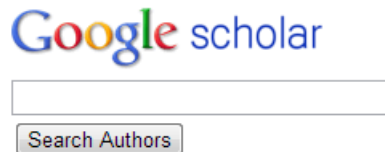
## Human gut microbiota and future prebiotics

Author(s): **Michael Conlon** \*, Anthony Bird and Claus Christophersen  
CSIRO Food Futures National Research Flagship, CSIRO Animal, Food and Health Sciences, Adelaide, SA 5000, Australia  
Dr Michael Conlon, CSIRO Animal, Food and Health Sciences, PO Box 10041, Adelaide BC, SA 5000, Australia

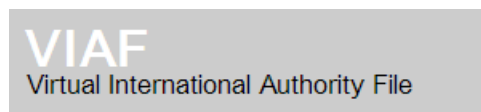
# One researcher may have many profiles or identifiers...

(from an email signature block)

**Profiles:** [Academia](#) / [Google Scholar](#) / [ISNI](#) / [Mendeley](#) / [MicrosoftAcademic](#) / [ORCID](#) / [ResearcherID](#) / [ResearchGate](#) / [Scopus](#) / [Slideshare](#) / [VIAF](#) / [Worldcat](#)



[My Citations](#) - [Help](#)



**Jump To:** [Overview](#) | [Publication Timeline](#) | [Works About](#) | [Works By](#) | [Audience Level](#) | [Related Identities](#) | [Useful Links](#) | [Fast Headings](#)

# Registering Researchers in Authority Files Task Group

How to make it easier for researchers and institutions to more accurately measure their scholarly output?

- Challenges to integrate author identification

- Approaches to reconcile data from multiple sources

- Models, workflows to register and maintain integrated researcher information

# Registering Researchers in Authority Files Task Group Members

Micah Altman, MIT - [ORCID Board member](#)

Michael Conlon, U. Florida – [PI for VIVO](#)

Ana Lupe Cristan, Library of Congress – [LC/NACO trainer](#)

Laura Dawson, Bowker – [ISNI Board member](#)

Joanne Dunham, U. Leicester

Amanda Hill, U. Manchester – [UK Names Project](#)

Daniel Hook, Symplectic Limited

Wolfram Horstmann, U. Oxford

Andrew MacEwan, British Library – [ISNI Board member](#)

Philip Schreur, Stanford – [Program for Cooperative Cataloging](#)

Laura Smart, Caltech – [LC/NACO contributor](#)

Melanie Wacker, Columbia – [LC/NACO contributor](#)

Saskia Woutersen, U. Amsterdam

Thom Hickey, OCLC Research – [VIAF Council, ORCID Board](#)

# Stakeholders & needs

Researcher	Disseminate research
	Compile all output
	Find collaborators
	Ensure network presence correct
Funder	Track research outputs for grants
University administrator	Collate intellectual output of their researchers
Journalist	Retrieve all output of a specific researcher
Librarian	Uniquely identify each author
Identity management system	Associate metadata, output to researcher
	Disambiguate names
	Link researcher's multiple identifiers
	Disseminate identifiers
Aggregator (includes publishers)	Associate metadata, output to researcher
	Collate intellectual output of each researcher
	Disambiguate names
	Link researcher's multiple identifiers
	Track history of researcher's affiliations
	Track & communicate updates

# Some functional requirements

## **Librarian as a stakeholder**

Create consistent and robust metadata

Associate metadata for a researcher's output with the correct identifier

Disambiguate similar results

Merge entities that represent the same researcher and split entities that represent different researchers

# More functional requirements

## **Researcher & university administrator as a stakeholder**

Link multiple identifiers a researcher might have to collate output

Associate metadata with a researcher's identifier that resolves to the researcher's intellectual output.

Verify a researcher/work related to a researcher is represented

Register a researcher who does not yet have a persistent identifier

## **Funder and university administrator as a stakeholder**

Link metadata for a researcher's output to grant funder's data

# Systems profiled (20)

## Authority hubs:

Digital Author Identifier (DAI)

Lattes Platform

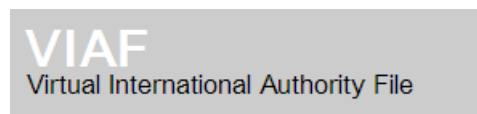
LC/NACO Authority File 

Names Project

Open Researcher and Contributor ID (ORCID)

ResearcherID

Virtual International Authority File (VIAF)



Current Research Information System (CRIS): Symplectic



Identifier hub: International Standard Name Identifier



National research portal: National Academic Research and Collaborations Information System (NARCIS)



# Systems profiled (20)

Online encyclopedia: Wikipedia



Reference management:



Research & collaboration hub:  
nanoHUB



Researcher profile systems:

Community of Scholars

Google Scholar

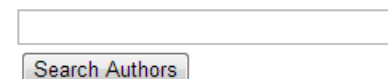
LinkedIn

SciENCv

VIVO



Google scholar



[My Citations - Help](#)

Subject author identifier system: AuthorClaim

Subject repository: arXiv



# Partial overview: Authority & identifier hubs

Digital Author Identifier	Researchers in all Dutch CRIS & library catalogs	66K
Lattes Platform	Brazilian researchers and research institutions	2M people, 4K inst.
ISNI	Data from libraries, open source resource files, commercial aggregators, rights management organizations. Includes performers, artists, producers, publishers	7M total; 720 K researchers
LC/NACO Authority File	Persons, organizations, conferences, place names, works	9M total; ? researchers
ORCID	Individual researchers plus data from CrossRef/Scopus, institutions, publishers	200K
ResearcherID	Researchers in any field, in any country	250K
VIAF	Library authority files for persons, organizations, conferences, place names, works	26M people; ? researchers


# Some overlaps

## VIAF


Virtual International Authority File

Preferred Forms


- 100 1 0 [\\_1a\\_Lynch, Clifford A.](#)
- 100 1 \_ [\\_1a\\_Lynch, Clifford](#)
- 100 1 \_ [\\_1a\\_Lynch, Clifford A.](#)
- 100 1 \_ [\\_1a\\_Lynch, Clifford A.](#)





WIKIPEDIA  
The Free Encyclopedia



Lorcan Dempsey (left) and Clifford Lynch







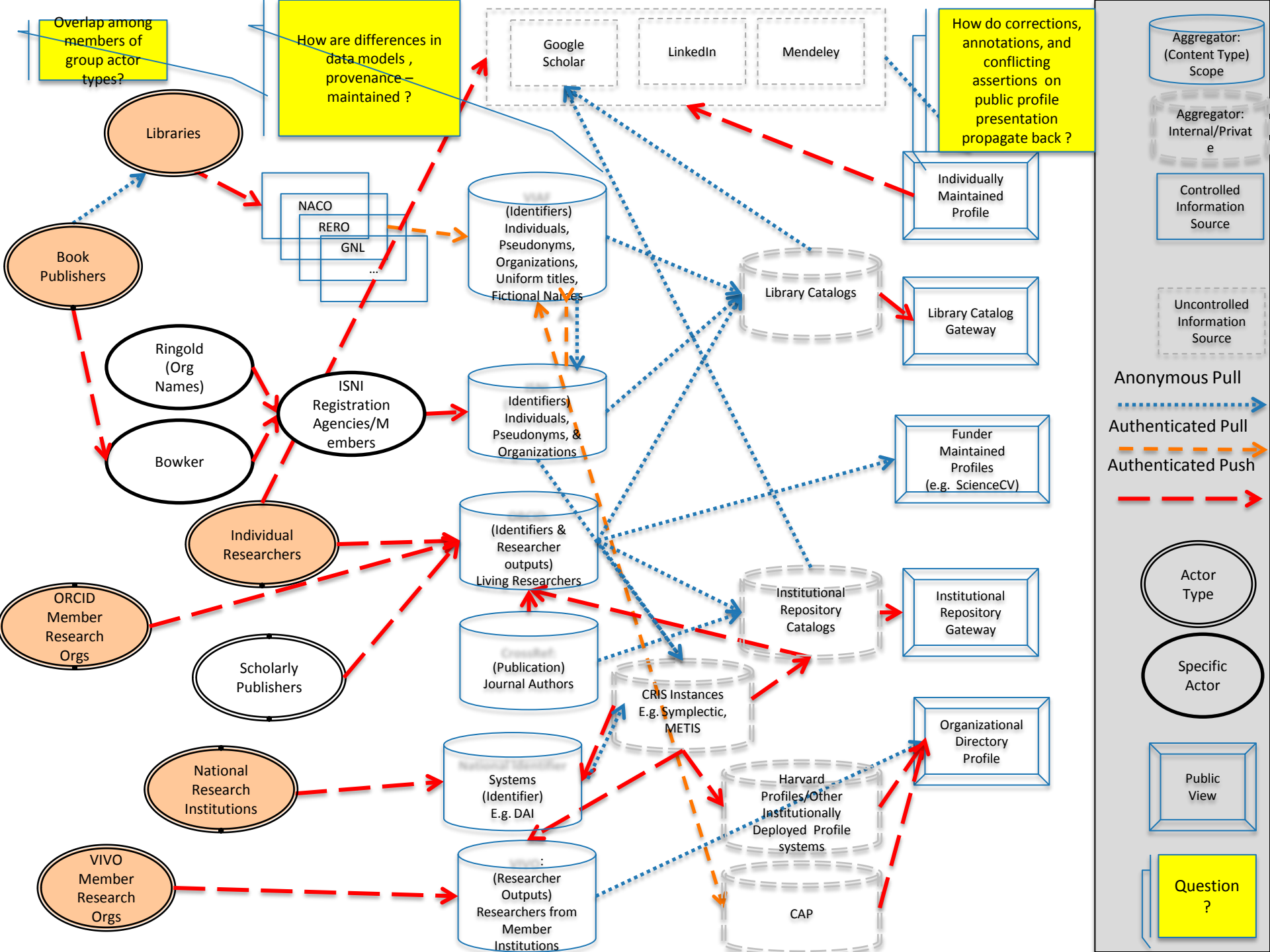
## LIBRARY OF CONGRESS AUTHORITIES

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[Previous](#)
[Next](#)

[MARC Display](#)
[Labelled Display](#)

LC control no.: no2005043559  
 LCCN permallink: <http://lcn.loc.gov/no2005043559>  
 HEADING: Childress, Eric  
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 001 6534052  
 005 20130918175834.0  
 008 050506n| azannaahn |a aaa c  
 010 \_\_ |a no2005043559  
 024 7\_ |a 0000000043605828 |2 isni  
 024 7\_ |a 0000-0002-7442-635X |2 orcid  
 024 7\_ |a 36648407 |2 viaf



# Some possibly emerging trends

Widespread acknowledgement that persistent identifiers for researchers is needed

Registration files rather than authority files for researcher identification

Universities assigning identifiers to researchers



Assigning ORCIDs to authors when submitting electronic dissertations in institutional repositories

Pilot to automatically generate preliminary authority records from publisher files (Harvard U. press, one other)



Assigning ISNI identifiers to their researchers.



Stanford University

Assigning local identifiers to researchers who don't have one.



Using UUIDs (Universally Unique identifiers) to map to other identifiers like ORCID.

# Nascent recommendations

Criteria for stakeholders to select identifier for the context or domain of applicability.

**Researcher:** Obtain persistent identifier before submitting any output.

Disseminate your persistent identifiers on all external communications

**Librarian/university administrator/aggregator:** Assign persistent identifiers to authors at point of submission if don't already have one

Electronic dissertations in institutional repositories

Papers, datasets to research websites

Articles to journal aggregators

# More nascent recommendations

## Hub/aggregator:

Establish maintenance mechanism to:

- Correct information about a researcher

- Merge entities representing same person

- Split entities representing different researchers.

Establish protocols to communicate changes to original source

Create framework to identify privacy & rights issues

Address interoperability of standards for both formats and data elements



# Thank You!

[smithyok@oclc.org](mailto:smithyok@oclc.org)

[@KarenS\\_Y](#)

[viaf.org/viaf/72868513](http://viaf.org/viaf/72868513)

<http://www.oclc.org/research/activities/viaf-scholars.html>

<http://www.oclc.org/research/activities/registering-researchers.html>



# Reordering Ranganathan: Shifting User Behaviors, Shifting Priorities

Lynn Silipigni Connaway, Ph.D.

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@LynnConnaway



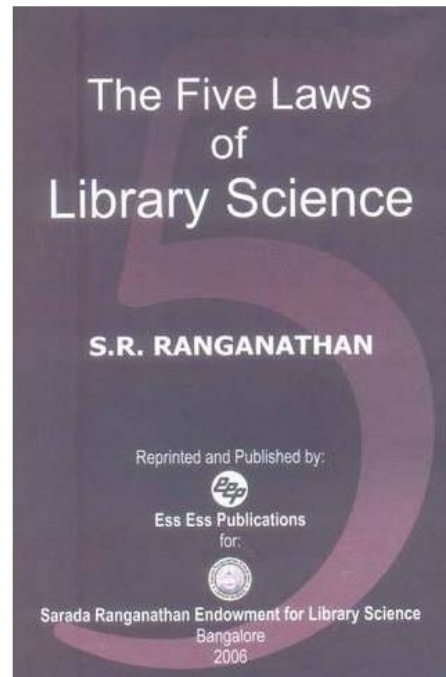
Ixchel M. Faniel, Ph.D.

Associate Research Scientist  
OCLC  
fanieli@oclc.org

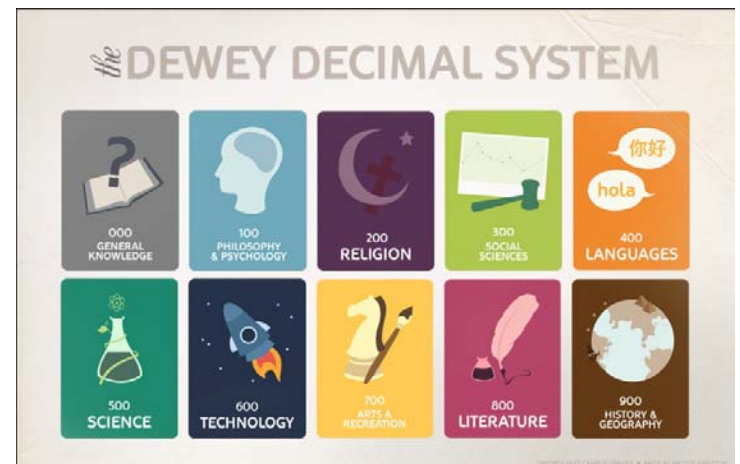




- 1892-1972
- Mathematician and librarian
- Five Laws of Library Science



- 1851-1931
- Librarian and educator
- Dewey Decimal Classification (DDC) System



	Books are for use.	E-books are for reading.	Netflix is for watching.	Blackboard is for studying.
	Every person his or her book.	Every listener her iTunes.	Every artist his Photoshop.	Every student her EasyBib.
	Every book its reader.	Every blog its reader.	Every Google Map its traveler.	Every digital repository its researcher.
	Save the time of the reader.	Save the time of the listener.	Save the time of the traveler.	Save the time of the researcher.
	A library is a growing organism.			



# Three Aspects of Time

- Time as simply time
- Time as a shorthand for convenience
- Time as stand-in for the entire service experience



- Overwhelmed by information
- No tolerance for delays



(Alves 2013; Connaway, Dickey, and Radford 2011; Fast and Campbell 2004; Sweeney 2006)

- Time and resource constraints
- Delayed contributions
  - Time



(Connaway and Dickey 2010b; Faniel 2009)

***Convenience: (1) fitness or suitability for performing an action or fulfilling a requirement; and (2) something (as an appliance, device, service) conducive to comfort or ease***

(Merriam-Webster.com)



Limited hours

Long travel distances

Time intensive

Fast and easy

Cost-effective

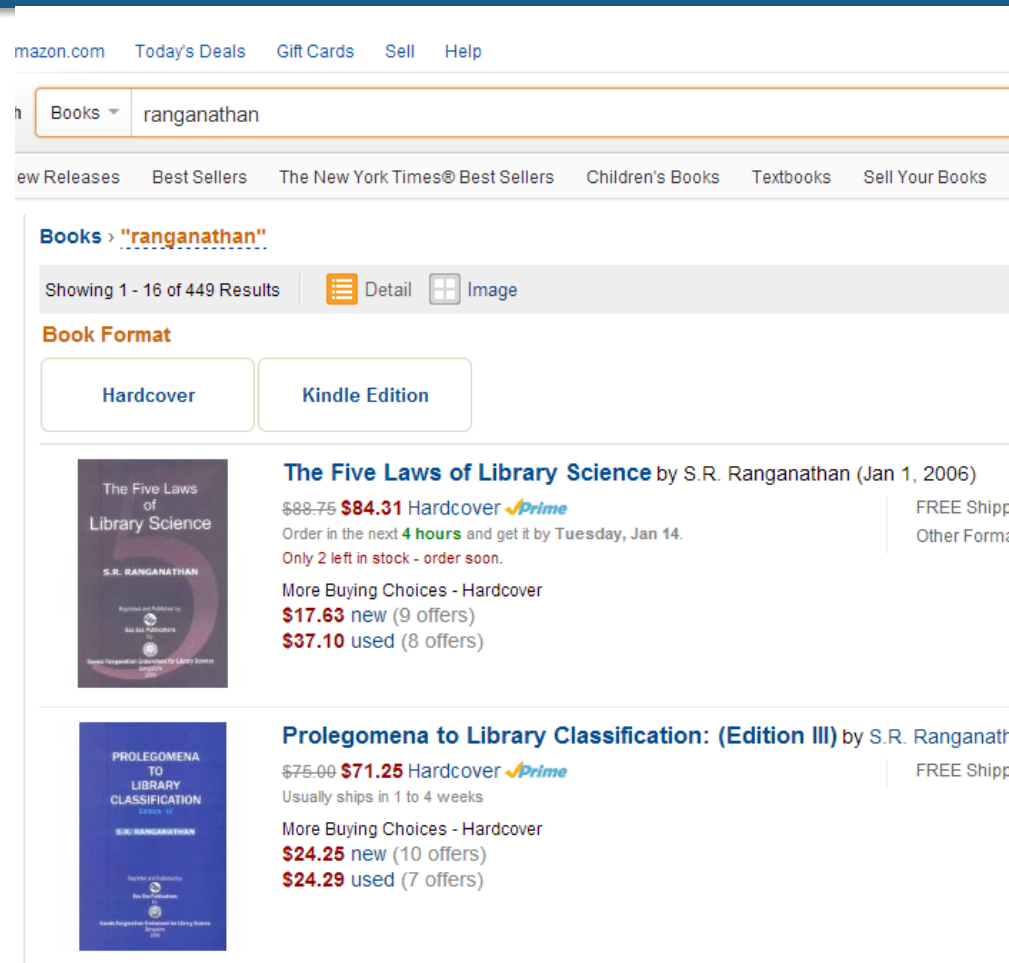
Available



(Connaway, Dickey, and Radford 2011; Connaway 2013b; Connaway, Lanclos, and Hood 2013; Connaway, Lanclos, White, Le Cornu, and Hood 2013; Pullinger 1999; De Rosa 2005)

# Time as User Experience

- Quick and convenient
- Familiar
- Rated, reviewed, and ranked by relevancy



The screenshot shows the Amazon.com website with a search for 'ranganathan' in the Books category. The results show two books by S.R. Ranganathan:

- The Five Laws of Library Science** by S.R. Ranganathan (Jan 1, 2006)
  - Price: ~~\$88.75~~ **\$84.31** Hardcover Prime
  - Order in the next **4 hours** and get it by Tuesday, Jan 14.
  - Only 2 left in stock - order soon.
  - More Buying Choices - Hardcover
    - \$17.63** new (9 offers)
    - \$37.10** used (8 offers)
- Prolegomena to Library Classification: (Edition III)** by S.R. Ranganathan
  - Price: ~~\$75.00~~ **\$71.25** Hardcover Prime
  - Usually ships in 1 to 4 weeks
  - More Buying Choices - Hardcover
    - \$24.25** new (10 offers)
    - \$24.29** used (7 offers)

(Calhoun, Cantrell, Gallagher, and Hawk 2009; Connaway 2013b; Connaway, Dickey, and Radford 2011; Connaway, Lanclos, and Hood 2013; Connaway, Lanclos, White, Le Cornu, and Hood 2013; Connaway and Radford 2011; Connaway, White, Lanclos, and Le Cornu 2013; Dempsey 2012; Head and Eisenberg 2009; Purcell, Rainie, Heaps, Buchanan, Friedrich, Jacklin, Chen, and Zickuhr 2012)





*Save the time of the reader*

=

*Embed library systems and services into users'  
existing workflows*

- Market and promote library services
- Provide a broad range of tools
- Remove the barriers between discovering and accessing information

(Connaway, Dickey, and Radford 2013)



(Connaway and Dickey 2010a)

# Recommendations

- Sense and respond to challenges
- Be bold
- Be inventive
- Take risks



(Faniel 2009)

- Are students using a particular service?
- Is there a way to apply the technology?
- Meet them





*Save the time of the reader*

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- Alves, Julio. 2013. Unintentional knowledge: What we find when we're not looking. *The Chronicle of Higher Education: The Chronicle Review* (June 23), [http://chronicle.com/article/Unintentional-Knowledge/139891/?cid=cr&utm\\_source=cr&utm\\_medium=en](http://chronicle.com/article/Unintentional-Knowledge/139891/?cid=cr&utm_source=cr&utm_medium=en).
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- White, David, Lynn Silipigni Connaway, Donna Lanclos, Alison Le Cornu, and Erin Hood. 2012. *Digital Visitors and Residents: Progress report*. Report submitted to JSC, June 2012. <http://www.jisc.ac.uk/media/documents/projects/visitorsandresidentsinterim%20report.pdf>.

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# Questions

# Reordering Ranganathan: Shifting User Behaviors, Shifting Priorities

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[@LynnConnaway](https://twitter.com/LynnConnaway)

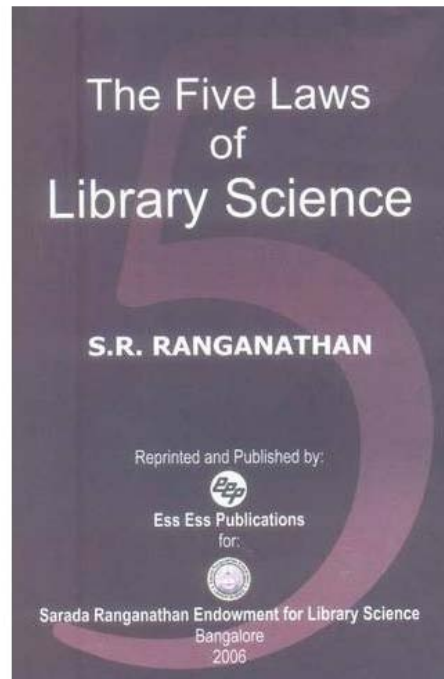
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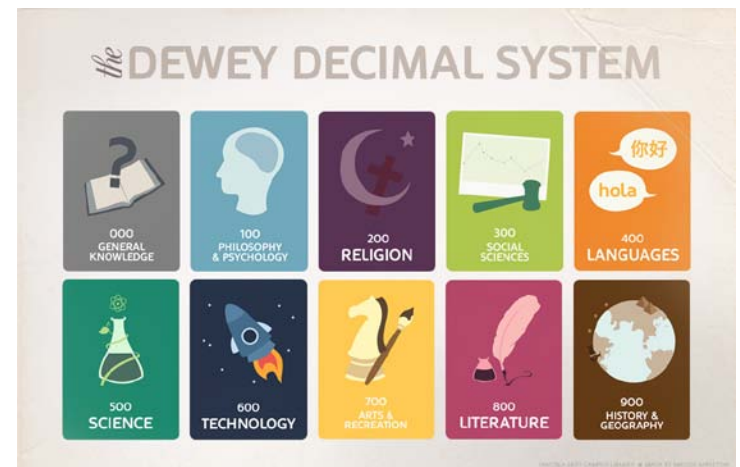
# *Same Laws, New Lens*

## Shiyali Ramamrita Ranganathan Melvil Dewey

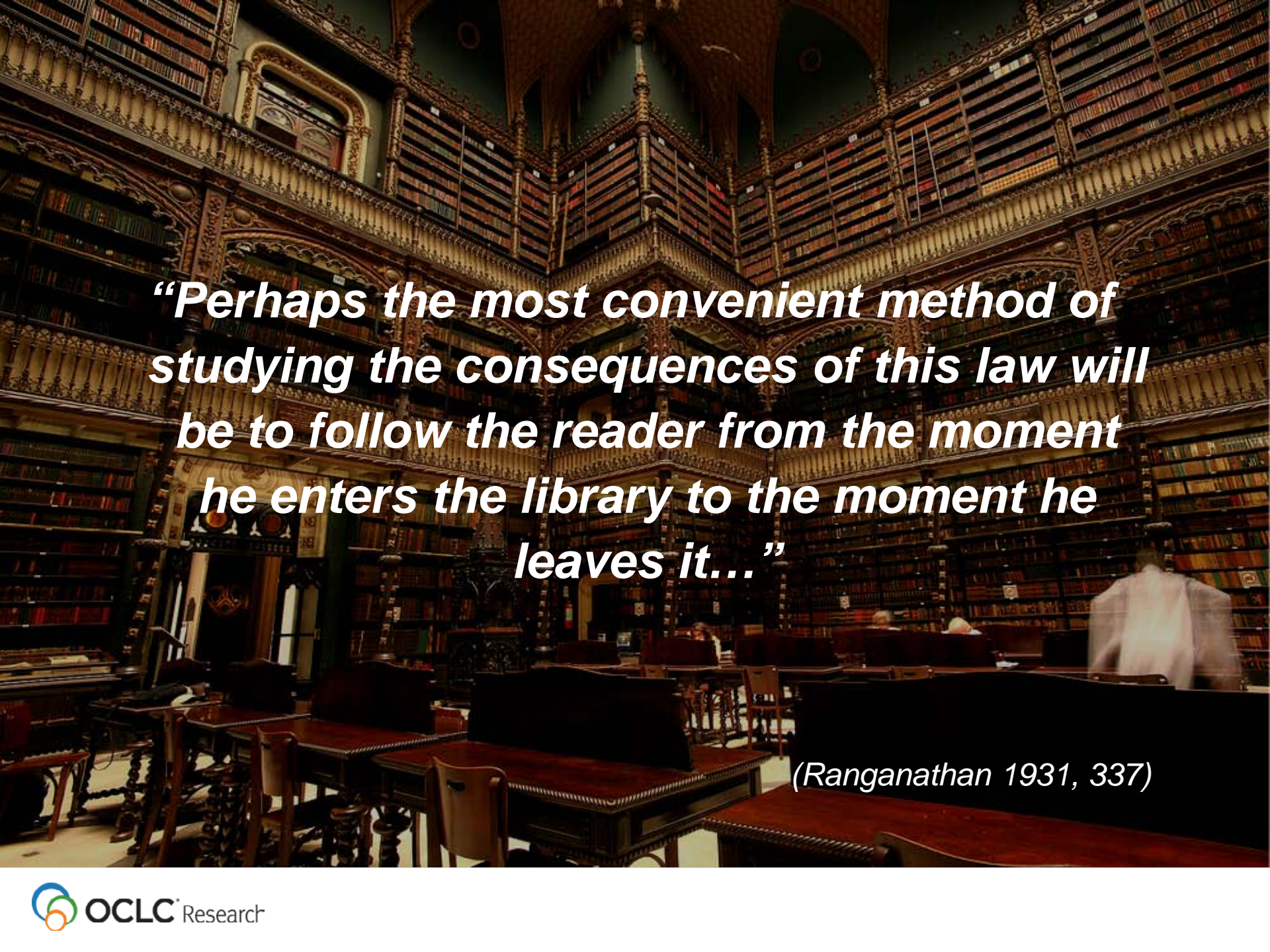
- 1892-1972
- Mathematician and librarian
- Five Laws of Library Science



- 1851-1931
- Librarian and educator
- Dewey Decimal Classification (DDC) system



	Ranganathan's Original Conception	New Conception in the Current Environment		
First Law	Books are for use.	E-books are for reading.	Netflix is for watching.	Blackboard is for studying.
Second Law	Every person his or her book.	Every listener her iTunes.	Every artist his Photoshop.	Every student her EasyBib.
Third Law	Every book its reader.	Every blog its reader.	Every Google Map its traveler.	Every digital repository its researcher.
Fourth Law	Save the time of the reader.	Save the time of the listener.	Save the time of the traveler.	Save the time of the researcher.
Fifth Law	A library is a growing organism.			



***“Perhaps the most convenient method of studying the consequences of this law will be to follow the reader from the moment he enters the library to the moment he leaves it...”***

*(Ranganathan 1931, 337)*

# Three Aspects of Time

- Time as simply time
- Time as a shorthand for convenience
- Time as stand-in for the entire service experience



## Seekers

- Overwhelmed by information
- No tolerance for delays



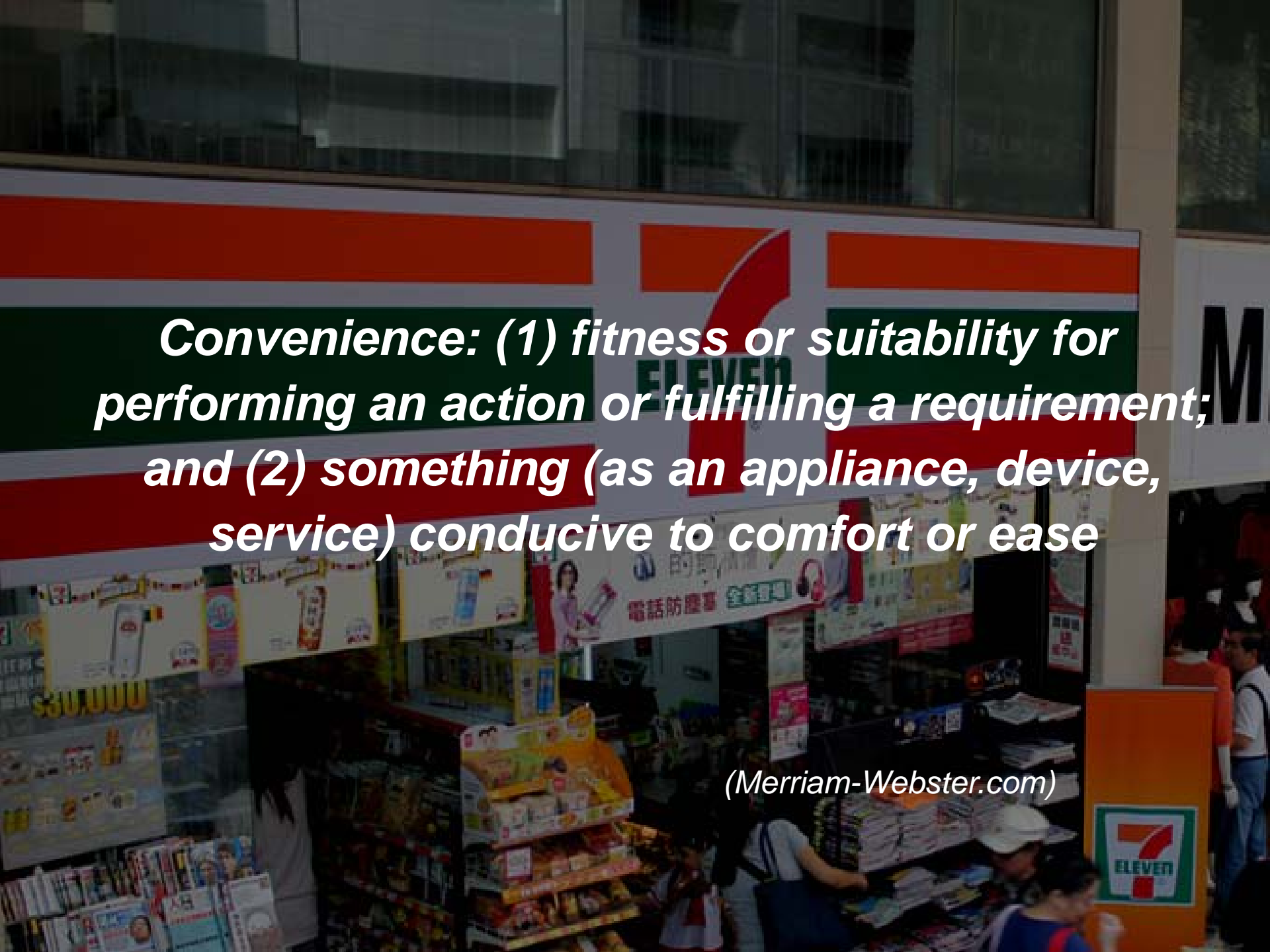
(Alves 2013; Connaway, Dickey, and Radford 2011; Fast and Campbell 2004; Sweeney 2006)

## Contributors

- Time and resource constraints
- Delayed contributions
  - Time



(Connaway and Dickey 2010b; Faniel 2009)

A photograph of a 7-Eleven convenience store. The store has a large red and white striped awning with the 7-Eleven logo. Inside, shelves are stocked with various snacks, including bags of chips and boxes of instant noodles. Customers are visible in the foreground, browsing the shelves. The text is overlaid on the upper half of the image.

***Convenience: (1) fitness or suitability for performing an action or fulfilling a requirement; and (2) something (as an appliance, device, service) conducive to comfort or ease***

*(Merriam-Webster.com)*

## Libraries

- ✓ Limited hours
- ✓ Long travel distances
- ✓ Time intensive

## Search Engines

- ✓ Fast and easy
- ✓ Cost-effective
- ✓ Available



(Connaway, Dickey, and Radford 2011; Connaway 2013b; Connaway, Lanclos, and Hood 2013; Connaway, Lanclos, White, Le Cornu, and Hood 2013; Pullinger 1999; De Rosa 2005)

## Discovery

- Quick and convenient
- Familiar
- Rated, reviewed, and ranked by relevancy



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  - Price: ~~\$75.00~~ **\$71.25** Hardcover Prime
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(Calhoun, Cantrell, Gallagher, and Hawk 2009; Connaway 2013b; Connaway, Dickey, and Radford 2011; Connaway, Lanclos, and Hood 2013; Connaway, Lanclos, White, Le Cornu, and Hood 2013; Connaway and Radford 2011; Connaway, White, Lanclos, and Le Cornu 2013; Dempsey 2012; Head and Eisenberg 2009; Purcell, Rainie, Heaps, Buchanan, Friedrich, Jacklin, Chen, and Zickuhr 2012)

# *Our Interpretation of the Law*



***Save the time of the user***

**=**

***Embed library systems and services into  
users' existing workflows***

## Inform Users

- Market and promote library services
- Provide a broad range of tools
- Remove the barriers between discovering and accessing information

(Connaway, Dickey, and Radford 2013)



Being Seamless = Efficiency

- + Knowledge of external and internal systems
- + Knowledge of user-centered services

(Connaway and Dickey 2010a)

## Be Proactive

- Sense and respond to challenges
- Be bold
- Be inventive
- Take risks



(Faniel 2009)

## Look Upstream

- Are students using a particular service?
- Is there a way to apply the technology?
- Meet them





***Save the time of the reader***

# *Questions and Discussion*

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# Selected Bibliography

- Alves, Julio. 2013. Unintentional knowledge: What we find when we're not looking. *The Chronicle of Higher Education: The Chronicle Review* (June 23), [http://chronicle.com/article/Unintentional-Knowledge/139891/?cid=cr&utm\\_source=cr&utm\\_medium=en](http://chronicle.com/article/Unintentional-Knowledge/139891/?cid=cr&utm_source=cr&utm_medium=en).
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# Scholars' Contributions to VIAF

Karen Smith-Yoshimura

OCLC Research

OCLC Research Update, Midwinter ALA Philadelphia

27 January 2014

# Virtual International Authority File (VIAF)





## Themistius

Textgroups: **tlg2001**

Tlg id: tlg2001

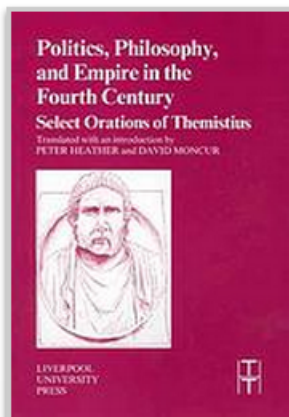
Alt id: lccn n 79127090;tlg2001

Name: Themistius

Alt names: **تامسطيوس**; Themistios; Θεμιστιος; Thémistios; תמיסטיאוס; Temistio; Temístio; Фемистий; Temistio; Themistius, Sophista; Them.

Field of activity: Sophist; Philosopher; Orator; Commentator

Notes: Machine-derived non-Latin script reference project; Non-Latin script references not evaluated; Substitute; Julianus, Apostata, Emperor of Rome. Lettera al filosofo Temistio, 1979 (a.e.) t.p. (Temistio); Colpi, B. Die paideia des Themistios, c1987; TLG Canon of Greek Authors and Works, Third Edition.; Smith's Dictionary of Greek and Roman Biography and Mythology, Vol , 1867, p. 1; ; Brill's New Pauly:


**Themistius**
**Themistius, ca317-ca388**
**Themistius Euphrades Paphlago, 0317?-0388?**
**Themistius, c. 317-c. 388**
**Themistios, ca 317-ca 388**
**Themistius 317-388**
**Themistius (ca 317-388).**
**Themistius, ca 315-ca 390**

VIAF ID: 100219934 (Personal)

Permalink: <http://viaf.org/viaf/100219934>

ISNI-test: [0000 0001 0928 6445](https://isni.org/0000-0001-0928-6445)


### 4xx's: Alternate Name Forms (44)

400 \_\_ ‡a Θεμιστιος

400 \_\_ ‡a Фемистий

## Search

Select Field:

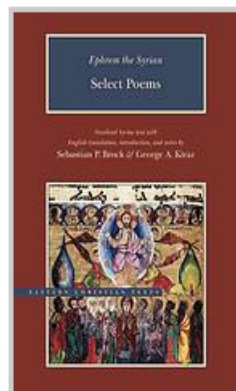
All Headings

Select Index:

All VIAF

Search Terms:

ephraem



ܥܦܪܝܡ



Ephraem, Syrus, ca. 306-ca. 373

Ephraem, Syrus, Saint, 303-373

Efrem (św. ; ca 306-373).

Ephraem Syrus 306-373

Efrén, Santo

Éphrem, saint, 0306?-0373

Efraim Syriem, helgon, 306-373

Ephraem Syrus, s., 303-373

Efrém Syriský, svatý, 306-373

Ephrem the Syrian

VIAF ID: 100177778 (Personal)

Permalink: <http://viaf.org/viaf/100177778>

## ܥܦܪܝܡ (Ephrem)

306-373

Ephrem was a Christian teacher and prolific writer of the 4th century C.E. in Syria and northern Mesopotamia. He is a key author in the Syriac traditions and revered as a saint in a wide variety of Christian churches.

## Names

- ܥܦܪܝܡ (The Syriac Reference Portal ([syriaca.org](http://syriaca.org)))
  - Ephrem (The Syriac Reference Portal ([syriaca.org](http://syriaca.org)))
- Ephrem (Gorgias Encyclopedic Dictionary of the Syriac Heritage, Entry 197)
- St. Ephraim the Syrian (Barsoum (English), Page 229)
  - مار افرام الملقان السرياني (Barsoum (Arabic), Entry 9, page 196)
  - ܥܦܪܝܡ, ܡܪܝܬܐ (Barsoum (Syriac), Page 218)
  - ܡܪܝܬܐ, ܥܦܪܝܡ (Barsoum (Syriac), Page 218)
- ܥܦܪܝܡ (Abdisho (YDQ), Page 69)
  - ܥܦܪܝܡ (Abdisho (YDQ), Page 69)
- ܥܦܪܝܡ (Abdisho (BO III), Page 61)
  - Ephraem, Syrus, Saint, 303-373
  - Éphrem, saint
  - Der Syrer, Ephraem



# Registering Researchers in Authority Files

Karen Smith-Yoshimura

OCLC Research

OCLC Research Update, Midwinter ALA Philadelphia

27 January 2014

# Scholarly output impacts the reputation and ranking of the institution



We initially use *bibliometric analysis* to look at the top institutions, by publications and citation count for the past ten years...

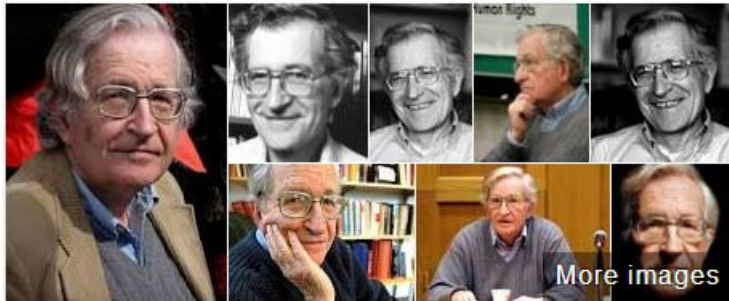


Universities are ranked by several indicators of academic or research performance, including... highly cited researchers...



Citations... are the best understood and most widely accepted measure of research strength.

# A scholar may be published under many forms of names



Noam Chomsky

Linguist

Also published as:

Avram Noam Chomsky

N. Chomsky

# Same name, different people

## Michael Conlon



Mike is Associate Director and Chief Operating Officer of the University of Florida Clinical and Translational Science Institute, and Director of Biomedical Informatics, UF College of Medicine. His responsibilities include development of academic biomedical informatics, expansion and integration of research and clinical information resources and strategic planning for academic health and university research. As principal investigator of the National Institutes of Health VIVO project, Mike led a team of 120 investigators at seven schools in the development, implementation and advancement of VIVO, an open source, semantic web application for research discovery. In his spare time, Mike enjoys his family and friends, Florida Gators football, and Python programming.

Conlon, Michael. 1982. *Continuously adaptive M-estimation in the linear model*. Thesis (Ph. D.)--University of Florida, 1982.

## Michael Conlon



Michael Conlon QC is a practising barrister at Pump Court Tax Chambers, specialising in revenue law. He is President of the VAT Practitioners Group and of the Institute of Indirect Tax, of which he is also a Fellow. He is a Chartered Tax Adviser (Fellow) and a member of numerous other professional and learned bodies. He is a member of the Editorial Boards of *Tax Journal* and *De Voil's Indirect Tax Intelligence*. He is a frequent writer and lecturer on taxation topics.



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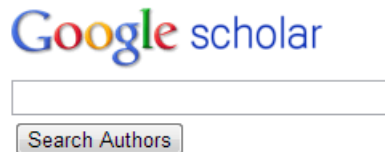
## Human gut microbiota and future prebiotics

Author(s): **Michael Conlon** \*, Anthony Bird and Claus Christophersen  
CSIRO Food Futures National Research Flagship, CSIRO Animal, Food and Health Sciences, Adelaide, SA 5000, Australia  
Dr Michael Conlon, CSIRO Animal, Food and Health Sciences, PO Box 10041, Adelaide BC, SA 5000, Australia

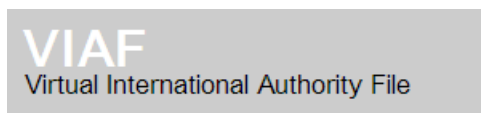
# One researcher may have many profiles or identifiers...

(from an email signature block)

Profiles: [Academia](#) / [Google Scholar](#) / [ISNI](#) / [Mendeley](#) / [MicrosoftAcademic](#) / [ORCID](#) / [ResearcherID](#) / [ResearchGate](#) / [Scopus](#) / [Slideshare](#) / [VIAF](#) / [Worldcat](#)



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# Registering Researchers in Authority Files Task Group

How to make it easier for researchers and institutions to more accurately measure their scholarly output?

- Challenges to integrate author identification

- Approaches to reconcile data from multiple sources

- Models, workflows to register and maintain integrated researcher information

# Registering Researchers in Authority Files Task Group Members

Micah Altman, MIT - [ORCID Board member](#)

Michael Conlon, U. Florida – [PI for VIVO](#)

Ana Lupe Cristan, Library of Congress – [LC/NACO trainer](#)

Laura Dawson, Bowker – [ISNI Board member](#)

Joanne Dunham, U. Leicester

Amanda Hill, U. Manchester – [UK Names Project](#)

Daniel Hook, Symplectic Limited

Wolfram Horstmann, U. Oxford

Andrew MacEwan, British Library – [ISNI Board member](#)

Philip Schreur, Stanford – [Program for Cooperative Cataloging](#)

Laura Smart, Caltech – [LC/NACO contributor](#)

Melanie Wacker, Columbia – [LC/NACO contributor](#)

Saskia Woutersen, U. Amsterdam

Thom Hickey, OCLC Research – [VIAF Council](#), [ORCID Board](#)

# Stakeholders & needs

Researcher	Disseminate research
	Compile all output
	Find collaborators
	Ensure network presence correct
Funder	Track research outputs for grants
University administrator	Collate intellectual output of their researchers
Journalist	Retrieve all output of a specific researcher
Librarian	Uniquely identify each author
Identity management system	Associate metadata, output to researcher
	Disambiguate names
	Link researcher's multiple identifiers
	Disseminate identifiers
Aggregator (includes publishers)	Associate metadata, output to researcher
	Collate intellectual output of each researcher
	Disambiguate names
	Link researcher's multiple identifiers
	Track history of researcher's affiliations
	Track & communicate updates

# Some functional requirements

## Librarian as a stakeholder

Create consistent and robust metadata

Associate metadata for a researcher's output with the correct identifier

Disambiguate similar results

Merge entities that represent the same researcher and split entities that represent different researchers

# More functional requirements

## **Researcher and university administrator as a stakeholder**

Link multiple identifiers a researcher might have to collate output

Associate metadata with a researcher's identifier that resolves to the researcher's intellectual output.

Verify a researcher/work related to a researcher is represented

Register a researcher who does not yet have a persistent identifier

## **Funder and university administrator as a stakeholder**

Link metadata for a researcher's output to grant funder's data

# Systems profiled (20)

## Authority hubs:

Digital Author Identifier (DAI)

Lattes Platform

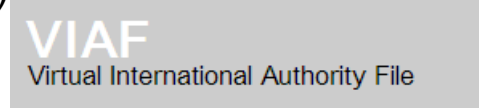
LC/NACO Authority File 

Names Project

Open Researcher and Contributor ID (ORCID)

ResearcherID

Virtual International Authority File (VIAF)



Current Research Information System (CRIS): Symplectic



Identifier hub: International Standard Name Identifier



National research portal: National Academic Research and Collaborations Information System (NARCIS)



# Systems profiled (20)

Online encyclopedia: Wikipedia



Reference management:



Research & collaboration hub: nanoHUB



**Researcher profile systems:**

Community of Scholars

Google Scholar

LinkedIn



SciENCv

VIVO



Google scholar

Search Authors

[My Citations - Help](#)

Subject author identifier system: AuthorClaim

Subject repository: arXiv



# Partial overview: Authority & identifier hubs





Digital Author Identifier	Researchers in all Dutch CRIS & library catalogs	66K
Lattes Platform	Brazilian researchers and research institutions	2M people, 4K inst.
ISNI	Data from libraries, open source resource files, commercial aggregators, rights management organizations. Includes performers, artists, producers, publishers	7M total; 720 K researchers
LC/NACO Authority File	Persons, organizations, conferences, place names, works	9M total; ? researchers
ORCID	Individual researchers plus data from CrossRef/Scopus, institutions, publishers	200K
ResearcherID	Researchers in any field, in any country	250K
VIAF	Library authority files for persons, organizations, conferences, place names, works	26M people; ? researchers


# Some overlaps

## VIAF


Virtual International Authority File

Preferred Forms


-  100 1 0 [1a Lynch, Clifford A.](#)
-  100 1 \_ [1a Lynch, Clifford](#)
-  100 1 \_ [1a Lynch, Clifford A.](#)
-  100 1 \_ [1a Lynch, Clifford A.](#)





WIKIPEDIA  
The Free Encyclopedia



Lorcan Dempsey (left) and Clifford Lynch







## LIBRARY OF CONGRESS AUTHORITIES

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LC control no.: no2005043559

LCCN permalink: <http://lcn.loc.gov/no2005043559>

HEADING: Childress, Eric

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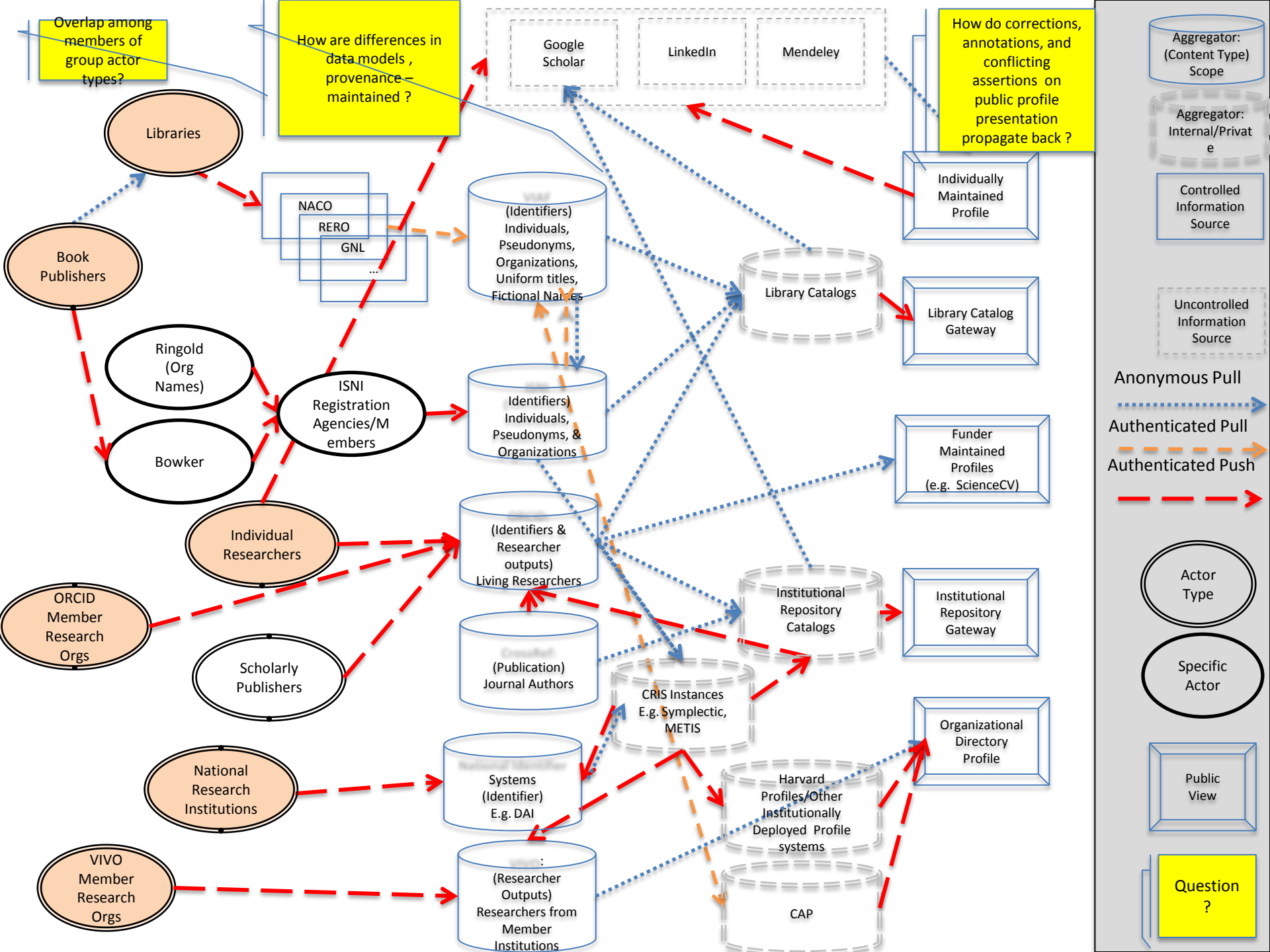
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024 7\_ |a 36648407 |2 viaf



# Some possibly emerging trends

Widespread acknowledgement that persistent identifiers for researchers is needed

Registration files rather than authority files for researcher identification

Universities assigning identifiers to researchers



Assigning ORCIDs to authors when submitting electronic dissertations in institutional repositories

Pilot to automatically generate preliminary authority records from publisher files (Harvard U. press, one other)



Assigning ISNI identifiers to their researchers.



Stanford University

Assigning local identifiers to researchers who don't have one.



Using UUIDs (Universally Unique identifiers) to map to other identifiers like ORCID.

# Nascent recommendations

Criteria for stakeholders to select identifier for the context or domain of applicability.

**Researcher:** Obtain persistent identifier before submitting any output.

Disseminate your persistent identifiers on all external communications

**Librarian/university administrator/aggregator:** Assign persistent identifiers to authors at point of submission if don't already have one

Electronic dissertations in institutional repositories

Papers, datasets to research websites

Articles to journal aggregators

# More nascent recommendations

## Hub/aggregator:

Establish maintenance mechanism to:

- Correct information about a researcher

- Merge entities representing same person

- Split entities representing different researchers.

Establish protocols to communicate changes to original source

Create framework to identify privacy & rights issues

Address interoperability of standards for both formats and data elements



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@KarenS\_Y

[viaf.org/viaf/72868513](https://viaf.org/viaf/72868513)

<http://www.oclc.org/research/activities/viaf-scholars.html>

<http://www.oclc.org/research/activities/registering-researchers.html>





# Thank You!

<http://www.oclc.org/research.html>

