

Meaningful Metrics & More

Session 5E: Books, Metrics and Research Evaluation

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#SSP2018
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metrics: authors, publishers, libraries, etc.

Metrics for books & book chapters

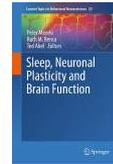
QUANTITATIVE

- Citations
- Downloads
- Readers
- # mentions in policy documents
- # mentions in news outlets
- # Wikipedia entries
- Attention on social media

QUALITATIVE

- Reviews
- (not machine operable)
 - Context of mentions in policy documents
 - Context of mentions in news outlets
 - Context of attention on social media



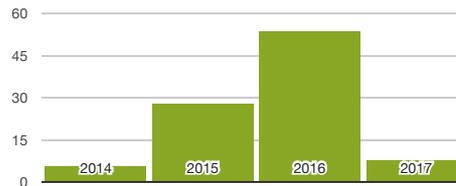


SLEEP, NEURONAL PLASTICITY AND BRAIN FUNCTION - 2015

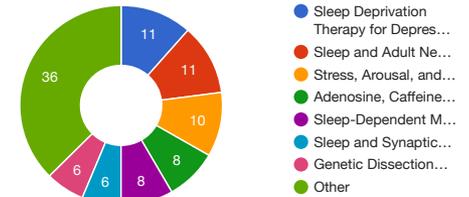
EDITORS Peter Meerlo · Ruth M. Benca · Ted Abel
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DOI 10.1007/978-3-662-46878-4
LOC SUBJECTS Medicine · Neurology · Neurosciences · Psychiatry · Animal behavior

CROSSREF CITATIONS BY YEAR

CROSSREF CITATIONS BY YEAR



CROSSREF CITATIONS BY CHAPTER



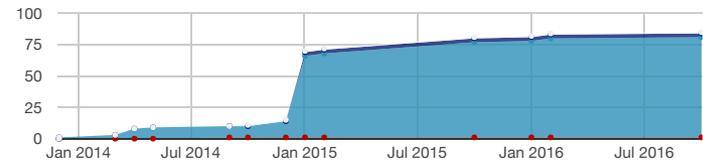
ONLINE MENTIONS (ALTMETRIC)

ONLINE MENTION SUMMARY



Data sourced from [Altmetrics](#)

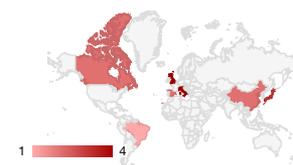
MENTIONS OVER TIME



MENDELEY READERSHIP

MENDELEY READERSHIP BY COUNTRY

This book has 275 Mendeley readers (combined total for all chapters).



MENDELEY READERSHIP BY DISCIPLINE

Discipline	Nº	%	Professional status	Nº	%
Agricultural and Biological Sciences	95	35%	Student > Ph. D. Student	73	27%
Psychology	71	26%	Researcher	71	26%
Medicine and Dentistry	44	16%	Student > Master	46	17%
Neuroscience	31	11%	Professor	19	7%
Philosophy	7	3%	Student > Bachelor	19	7%
Other	27	10%	Other	47	17%

PUBLISHER DOWNLOADS

SPRINGERLINK DOWNLOAD SUMMARY

The combined chapter downloads for this book are 38,703.

2013	2014	2015	2016
72	1,393	18,007	19,231

REVIEWS

REVIEWS

Reviewed by: [Michael Easton](#), [Doody's Book Reviews](#), November, 2015

Quantifying the Impact of My Publications: Book Metrics

This libguide provides guidance on metrics and reports that can be used to quantify performance and impact based on publication data.

[Home](#)[Levels of Impact](#)[Article Metrics](#)[Citations](#)[Book Metrics](#)[What is the h index?](#)[Establishing Your Author Name and Presence](#)[Enhancing Your Impact](#)[Tracking Your Work](#)[Telling Your Story](#)[Resources](#)

Examples of Book and Book Chapter Metrics

- How many libraries hold the book in their collections? Use [WorldCat](#) to find the number of libraries that hold the book in their collections.
- Is the book noted on any Best Seller lists?
- Is the book used as a textbook?
- Are there any book reviews?
- Are there any discussions about the book in the Amazon Customer Discussion forum?
- Is the book available in an e-reader format as well as print?
- Has the book been publicly recommended on Google+?
- Has the book been tweeted on Twitter?
- Is the book noted on a publisher's best-seller list?
- What are the sales figures for the book?
- Has the book been included in bibliographies?
- Has the book or book chapter been cited in subsequent publications?
- Has the author been invited to present on the topic related to the book or book chapter?
- Has the author been invited to book signings?
- Are there subsequent editions to the book?
- Are there any translations of the book?
- Has your book been awarded any prizes such as the PROSE Award or noted by an organization as having made a significant contribution to a field?

Books and Book Chapters

Locating evidence of performance and/or impact for books and book chapters is more difficult than traditional journal articles. Some recommended resources include:

- [Amazon](#)
- [WorldCat](#)
- [Google Books](#)
- [Scopus](#)
- Databases that include books such as Thomson Reuters' [Book Citation Index](#)
- Your publisher or managing editor

Books and Book Chapters Indexed in Scopus

In 2013 Scopus began [indexing](#) select books and book chapters and as of January 2018, there are over 150,000 book titles indexed in Scopus. Book coverage includes monographs, edited volumes and major reference works and graduate level textbooks. Among the features of Scopus is that authors of books and book chapters can obtain citation counts for their works. See the [Elsevier Content guide](#) for more information on book coverage in Scopus and to obtain a list of books

Cathy Sarli, Becker Library

Metrics for books, book chapters, authors, etc.

Expanding the conversation

QUANTITATIVE

- Citations
- Downloads
- Readers
- # mentions in policy documents
- # mentions in news outlets
- # Wikipedia entries
- Attention on social media*
- Library holdings
- Sales figures
- # book signings
- Subsequent editions to the book
- # translations
- # awards

Machine-operable metadata
and content

QUALITATIVE

- Reviews
- Mentions in policy documents (context)
- Mentions in news outlets (context)
- Attention on social media (context)
- On best sellers lists
- Used as a textbook, OER
- Online discussions
- Format: e-reader format + print
- Included in bibliographies
- Author presentations, invited lectures
- Noted by an organization as having made a significant contribution to a field
- Advance praise, endorsements, dedication, acknowledgements, epigraphs
- Ancillary products
- Open access, open scholarship



OPEN ACCESS PEER-REVIEWED

RESEARCH ARTICLE

Academic information on Twitter: A user survey

Ehsan Mohammadi, Mike Thelwall, Mary Kwasny, Kristi L. Holmes

Published: May 17, 2018 • <https://doi.org/10.1371/journal.pone.0197265>

0 Save	0 Citation
1,420 View	57 Share

Article	Authors	Metrics	Comments
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Abstract

Although counts of tweets citing academic papers are used as an informal indicator of interest, little is known about who tweets academic papers and who uses Twitter to find scholarly information. Without knowing this, it is difficult to draw useful conclusions from a publication being frequently tweeted. This study surveyed 1,912 users that have tweeted journal articles to ask about their scholarly-related Twitter uses. Almost half of the respondents (45%) did not work in academia, despite the sample probably being biased towards academics. Twitter was used most by people with a social science or humanities background. People tend to leverage social ties on Twitter to find information rather than searching for relevant tweets. Twitter is used in academia to acquire and share real-time information and to develop connections with others. Motivations for using Twitter vary by discipline, occupation, and employment sector, but not much by gender. These factors also influence the sharing of different types of academic information. This study provides evidence that Twitter plays a significant role in the discovery of scholarly information and cross-disciplinary knowledge spreading. Most importantly, the large numbers of non-academic users support the claims of those using tweet counts as evidence for the non-academic impacts of scholarly research.

- ✓ 45% OUTSIDE OF ACADEMIA
- ✓ SOCIAL SCIENCE / HUMANITIES BACKGROUND
- ✓ PEOPLE LEVERAGE SOCIAL TIES
- ✓ USED TO ACQUIRE AND SHARE REAL-TIME INFORMATION AND TO DEVELOP CONNECTIONS
- ✓ MOTIVATIONS VARY BY DISCIPLINE, OCCUPATION, AND EMPLOYMENT SECTOR, BUT NOT MUCH BY GENDER
- ✓ TWITTER PLAYS A SIGNIFICANT ROLE IN THE DISCOVERY OF SCHOLARLY INFORMATION AND CROSS-DISCIPLINARY KNOWLEDGE SPREADING

Most importantly, the large numbers of non-academic users support the claims of those using tweet counts as evidence for the non-academic impacts of scholarly research.

Attention metrics matter!



Local perspectives

More than books and dust



Making the call...

used in curriculum

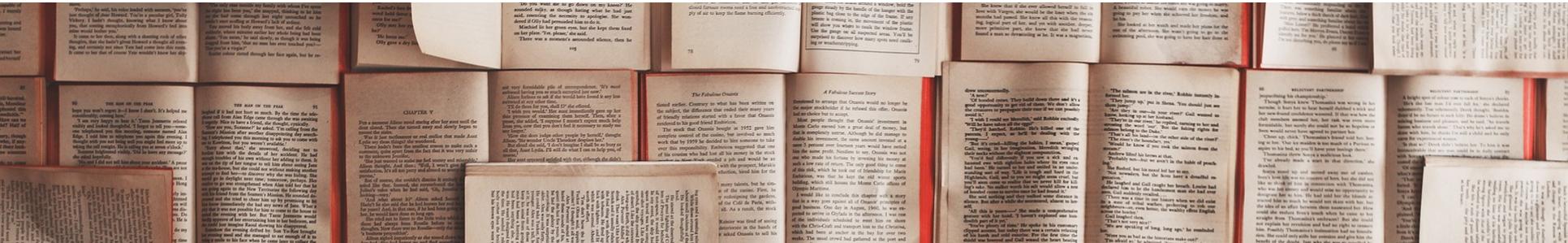
available formats/
ease of use

supports campus
priority areas

license structure/
persistent access

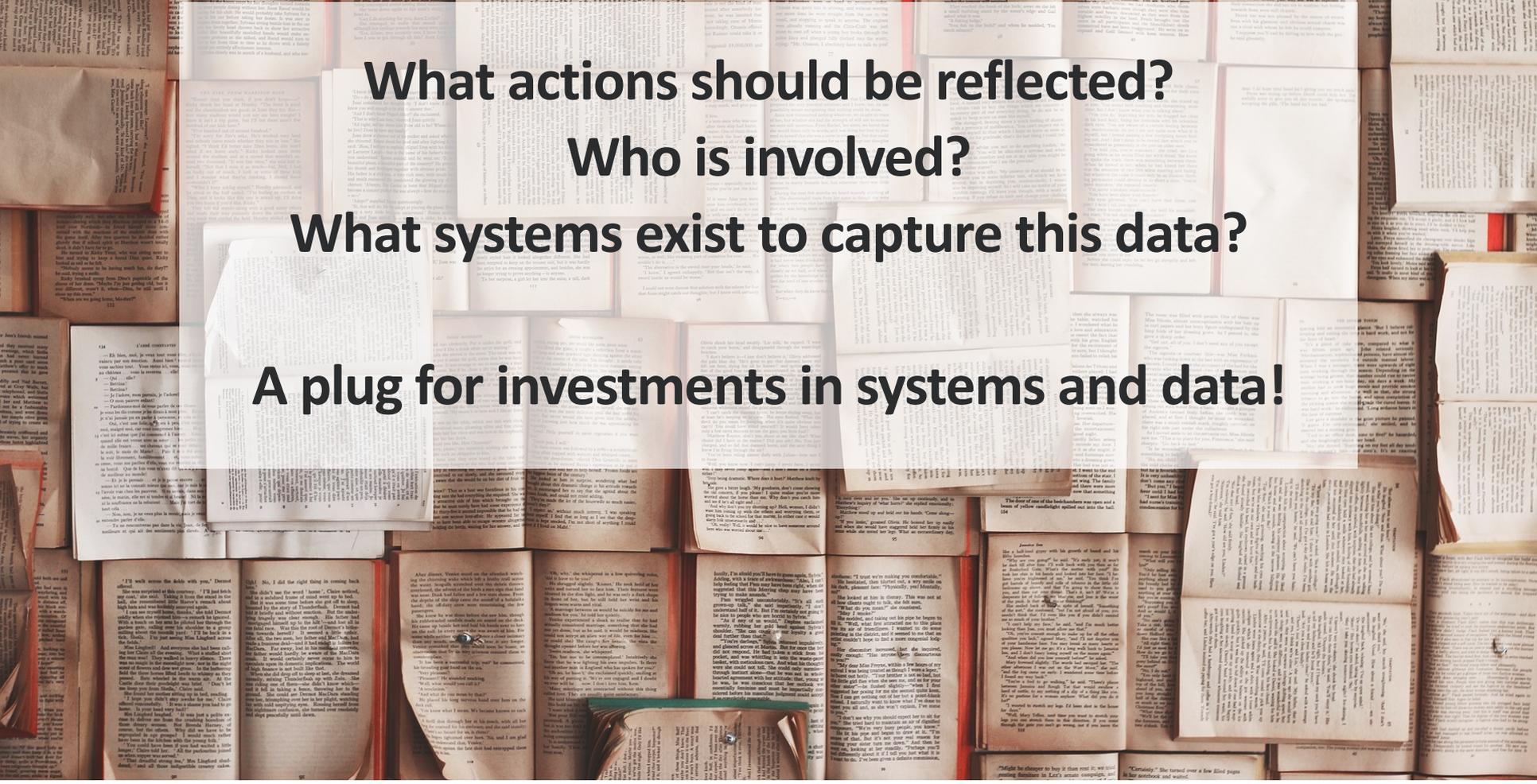


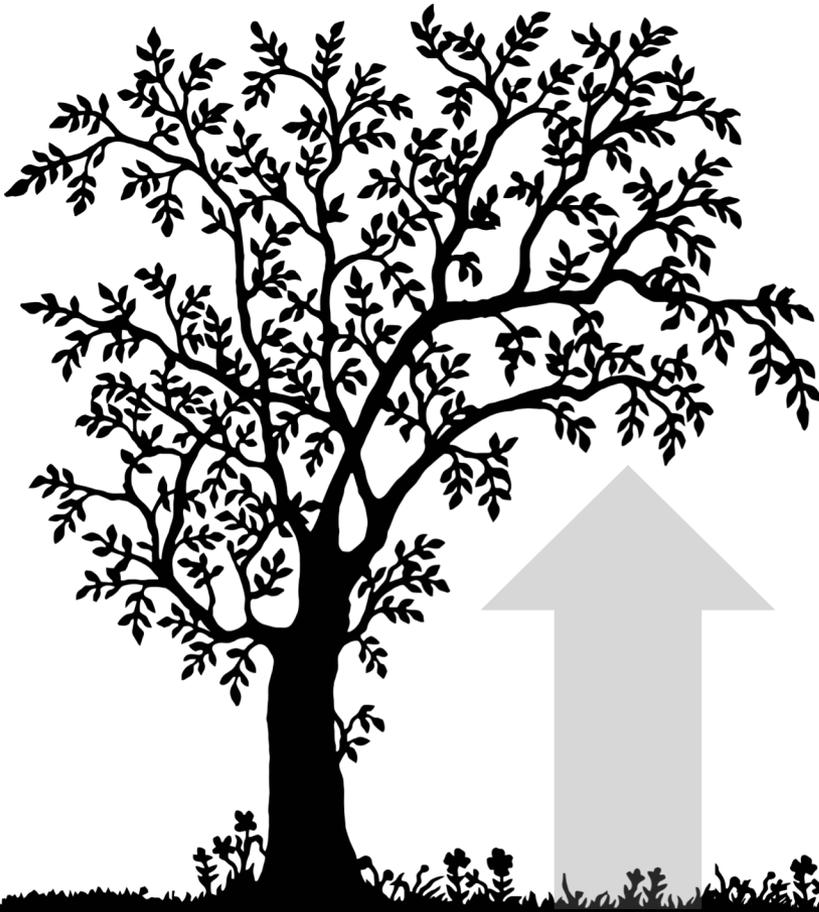
Students in Feinberg's MD, Physician Assistant and Doctor of Physical Therapy programs, along with nursing students from DePaul University, worked together on a case during the schools' first-ever interprofessional teamwork learning initiative.



What actions should be reflected? Who is involved? What systems exist to capture this data?

A plug for investments in systems and data!





The informatics of attribution...

- **Issues:** we count/track only a few outputs, more interesting/ appropriate indicators are hidden, attribution can be improved!
- **Research impact:** what we typically count ...and what opportunities do we miss with all of the other stuff we create (below the signal line!)
- **Defining *meaningful* impact** and going beyond the counts to find evidence (blooming!)
- **How do we get there?** Culture & technology
 - ✓ Data use, reuse, & repurposing + smarter systems
 - ✓ Persistent identifiers
 - ✓ Cultural interventions & algorithms
 - ✓ Better representation of contributor roles (CRedit & CD2H)
 - ✓ Recognition of a range of outputs (Becker Model, NISO, CD2H)

Join us! Collaborate on attribution through the CTSA Program National Center for Data to Health (CD2H). More at <https://ctsa.ncats.nih.gov/cd2h/> or contact @kristiholmes

**PATHWAYS TO IMPACT: Advancement of Knowledge,
Clinical Implementation, Community/Society Benefit,
Legislation and Policy, Economic Benefit, Advancement of
Innovation (Becker Model)**

Thanks to our team

Galter Health Sciences Library & Learning Center
@GalterLibrary

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NCATS grant UL1TR001422 (NUCATS)

and thank you!