Altmetrics and impact

COPE, 19th August 2015

Betsy Donohue VP, Publisher Business Development





Getting credit where credit is due Altmetrics and impact

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This talk

- Why are altmetrics of interest to authors, publishers & institutions?
- How are they used
- What are the benefits
- Things we've learned
- How are they abused

Several different tools available

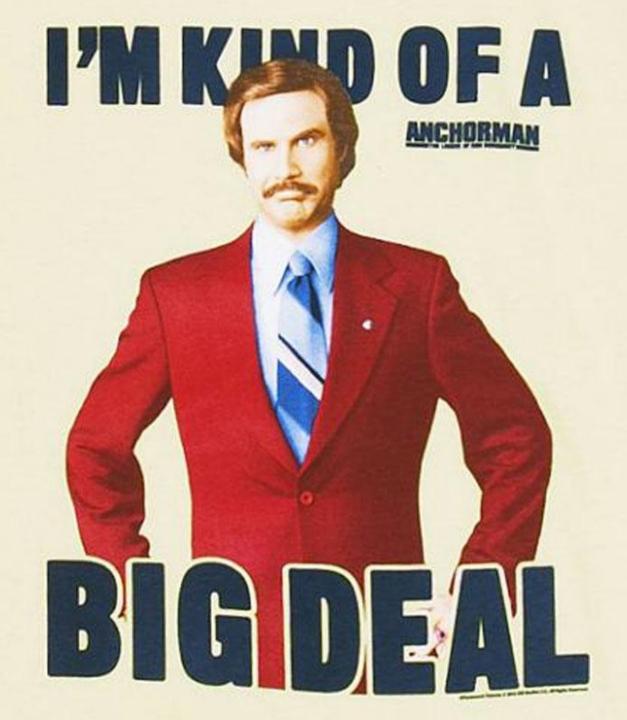








You say tomato...



But there is another driver

Bad news for researchers?

- You're under pressure to justify
 - -Yourself
 - Your research
- Both internally and externally

Good news for researchers?

Funders and institutions are increasingly looking for or considering other types of:

- Impact
- Research output
- Contribution

Altmetrics

Take a broader view of impact to help give credit where credit is due

Example: social & mainstream media





Blogs, reviews, comments

Including Faculty of 1000, PubPeer, MathOverflow and the world's largest curated index of academic blogs.

Newspapers & magazines

International titles, both mainstream and niche.





Social media



brant faircloth @brantfaircloth · Apr 8

What makes me happiest about our bird paper (plosone.org/article/metric...) is that largest % of readers are general public altmetric.com/details.php?ci...

View summary







Example: policy documents



World Health Organization

(WHQ) licy on collaborative TB/HIV activities: guidelines for national programmes and other stakeholders"





Intergovernmental Panel on Climate Change (IPCC)

"Managing the Risks of Extreme Events and Disasters to Advance Climate Change Adaptation"



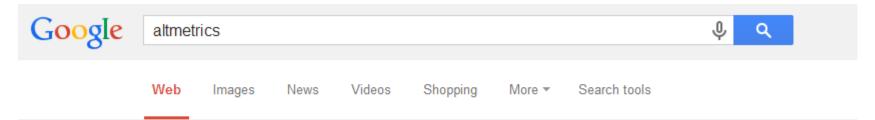


National Institute for Health and Care Excellence (NICE)

"Delivering Accident Prevention at local level in the new public health system: Road safety policy and links to wider objectives"



How people use altmetrics data



About 536,000 results (0.29 seconds)





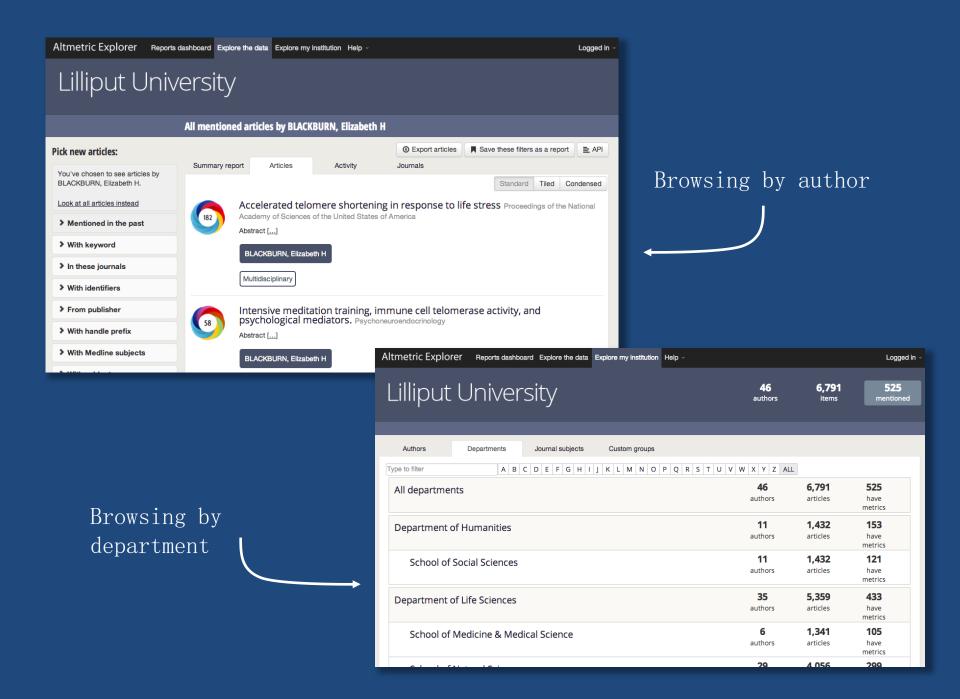


RESEARCH & INNOVATION

- To gauge the overall popularly of the article
 - 87% of respondents strongly agreed or agreed
- To discover and network with researchers who are interested in the same area of their work
 - 77% strongly agreed or agreed
- To understands a paper's influence on the scientific community
 - 66% strongly agreed or agreed
- To determine what journal to submit their next paper to
 - 60% of respondents strongly agreed or agreed
- To determine areas of research to explore
 - Only 37% of respondents strongly agreed or agreed







What are the benefits?

For authors

- See who is talking about their work, and what they're saying
- Better manage their online reputation ensure work isn't being misinterpreted
- Find evidence of influence and engagement for job and funding applications

For institutions and funders

- Identify success stories to help develop future strategy
- Uncover developing fields
- Get the fuller picture of a researcher



For publishers

- Monitor the success of marketing and PR activity
- Identify new audiences (or markets)
- Gathering evidence for future strategy decisions
- Support existing authors and institutional customers

For editorial

- Encourage future submissions
- Track which content is of most interest and can possibly be repurposed
- Identify high profile authors to attract
- Discover potential reviewers
- Report back to editorial boards and society stakeholders



Some things we've learned

More complementary than alternative to really

Alt metrics

Implies an emphasis on the quantitative that doesn't actually exist.

Metrics makes people think of being judged (unfortunately)



Do Altmetrics Work? Twitter and Ten Other Social Web Services

Mike Thelwall^{1*}, Stefanie Haustein², Vincent Larivière³, Cassidy R. Sugimoto⁴

1 School of Technology, University of Wolverhampton, Wolverhampton, United Kingdom, 2 École de bibliothéconomie et des sciences de l'information, Université de Montréal, Montréal, Québec, Canada and Science-Metrix Inc., Montréal, Québec, Canada, 3 École de bibliothéconomie et des sciences de l'information, Université de Montréal, Montréal, Québec, Canada and Observatoire des sciences et des technologies, Centre interuniversitaire de recherche sur la science et la technologie, Université du Québec à Montréal, Montréal, Québec, Canada, 4 School of Information and Library Science, Indiana University Bloomington, Bloomington, Indiana, United States of America

People like to relate it to citations! Scholarly altmetrics correlate with citations. Public engagement / policy & practice altmetrics don't.





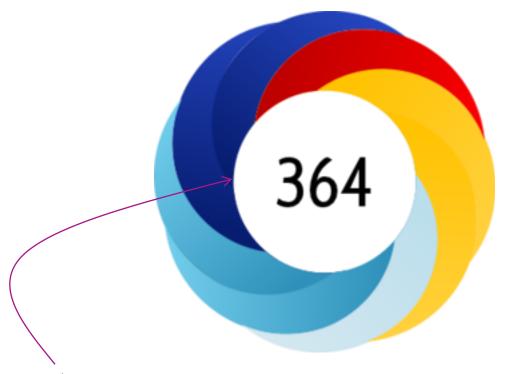
How people (ab)use altmetrics data

"The more any quantitative social indicator (or even some qualitative indicator) is used for social decision-making [...] the more apt it will be to distort and corrupt the social processes it is intended to monitor."

Donald Campbell, 1976



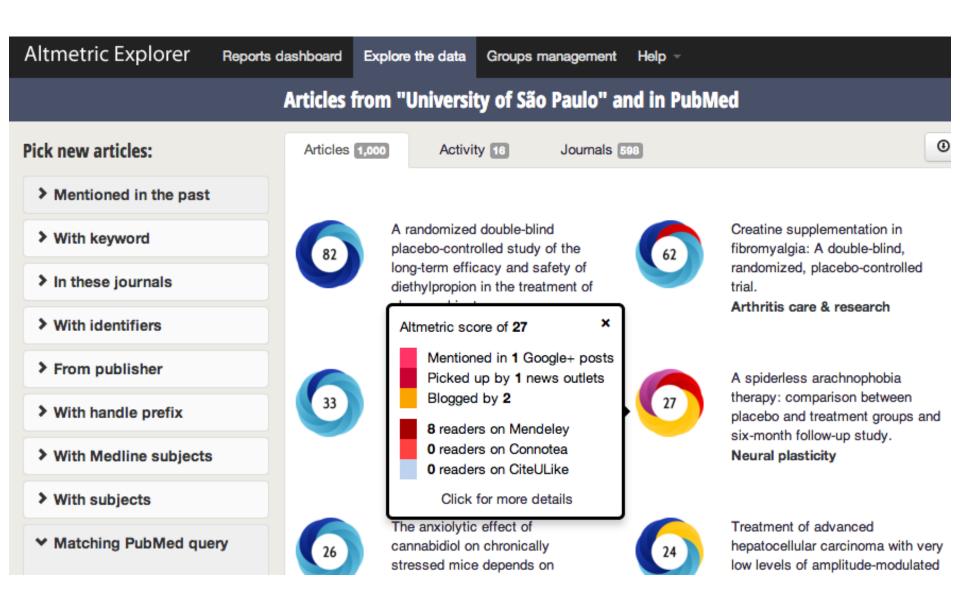
Quantifying attention



Altmetric score

http://support.altmetric.com/knowledgebase/articles/83337-how-is-the-altmetric-score-calculated

Why score at all? To allow ranking





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CMAJ December 12, 2000 vol. 163 no. 12

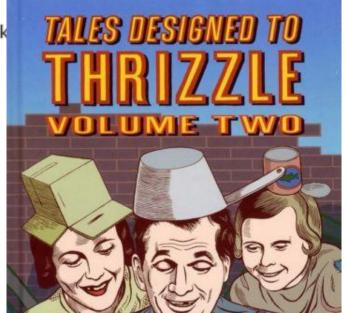


Research of the Holiday Kind

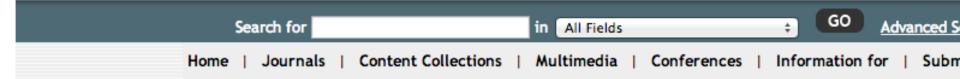
Pathology in the Hundred Acre Wood: a neurodevelopmental perspective on A.A. Milne

Sarah E. Shea, Kevin Gordon, Ann Hawkins, Janet Kawchuk Donna Smith





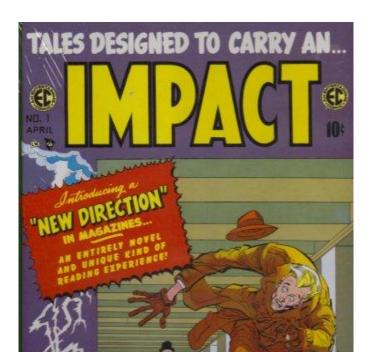
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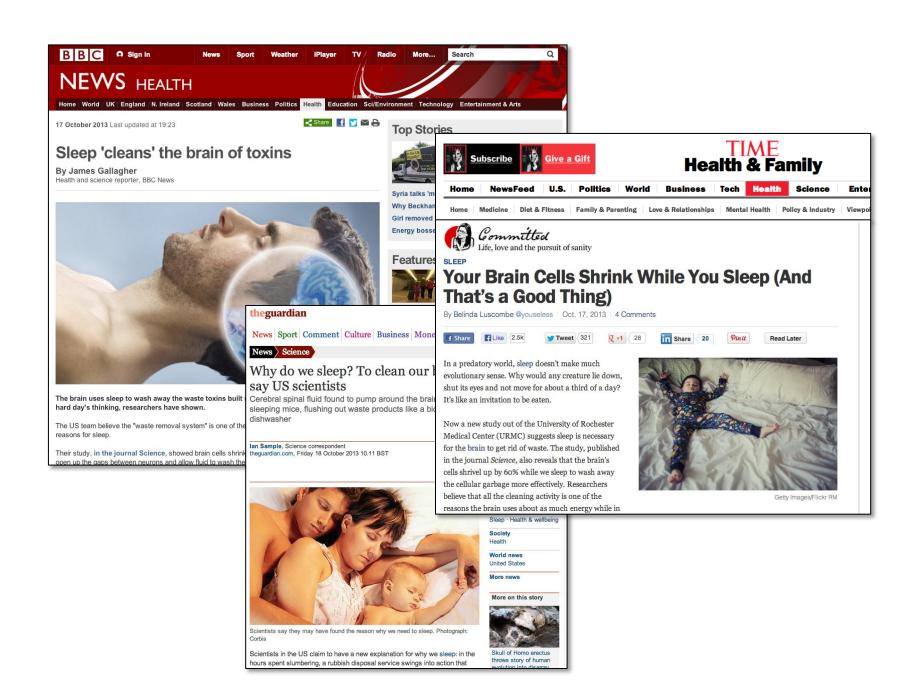


Effect of daily aspirin on long-term risk of death due to cancer: analysis of individual patient data from randomised trials

Prof <u>Peter M Rothwell</u> FMedSci <u>a</u> <u>FMEM</u>, Prof <u>F Gerald R Fowkes</u> FRCPE <u>b</u>, Prof <u>Jill FF Belch</u> FRCP <u>c</u>, <u>Hisao Ogawa</u> MD <u>d</u>, Prof <u>Charles</u> <u>P Warlow</u> FMedSci <u>e</u>, Prof <u>Tom W Meade</u> FRS <u>f</u>







Miniature Donkey Talk

The TALK of the donkey world



In This Issue:

Acute Liver Failure Ultrasound Looks Inhe Irish Donkey Avoid "Attractive Naisas



Recumbent **Cyclist News**





Inside

Rosen Selay Potats ... 17

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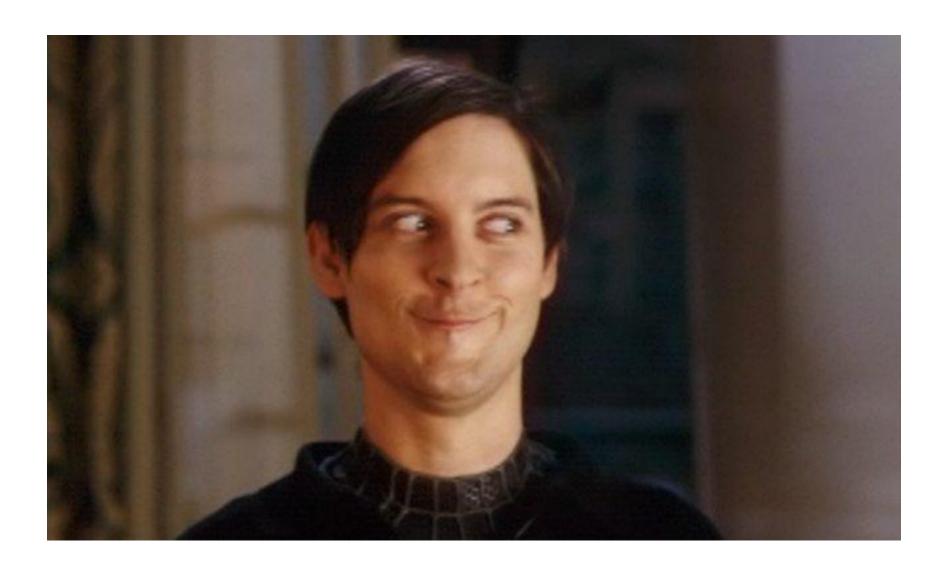
The Ethics is harrown finding a telescoperturing, lighter single,

tion of the State and proper services.

When the transfer tra



Gaming the system



Gaming?

• Alice asks her friends to retweet her.

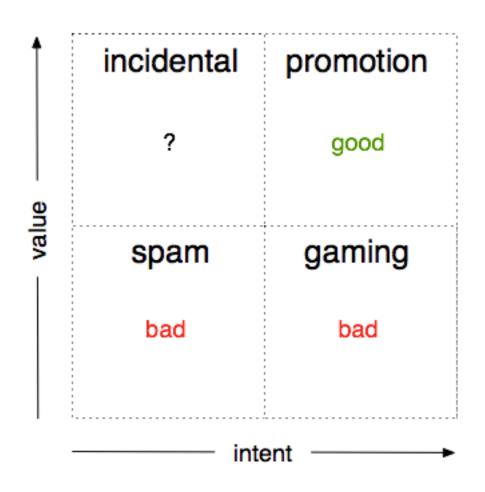
Gaming?

 Bob likes Alice's paper. He shares it with all his friends and asks them to retweet him.

Gaming?

Alice pays \$5 for 100 retweets

Four types of suspicious attention





Microcystis Aeruginosa and Underwater Light Attenuation in a Hypertrophic Lake (Hartbeespoort Dam, South Africa)

Twitter

Score

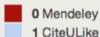
Demographics

So far Altmetric has seen 34 tweets from 1 accounts.

Mentioned by



Readers on



0 Mendeley

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Hartbeespoort Dam @Hartbeespoort Dam I am 97.588% full. Microcystis aeruginosa and underwater light attenuation in a hypertrophic... http://t.co/Ni3up8AfU0 #harties

23-Mar-2013



Hartbeespoort Dam @Harties dam

I am 98.984% full. Microcystis aeruginosa and underwater light attenuation in a hypertrophic... http://t.co/3RyYnnha #harties

08-Feb-2013



Hartbeespoort Dam @Harties dam

I am 97.610% full. Microcystis aeruginosa and underwater light attenuation in a hypertrophic... http://t.co/3RyYnnha #harties

14-Feb-2013



Hartbeespoort Dam @Harties dam 93 followers

I am 97.074% full. Microcystis aeruginosa and underwater light attenuation in a hypertrophic... http://t.co/3RyYnnha #harties

15-Feb-2013

What can be done?

- Make underlying data available, visible
- Only track sources that can be audited
 - Some interesting sources fail this test e.g. downloads and private Facebook activity
- Automatically flag up suspicious activity, then manually curate
- Have a standard process in place to deal with gamed articles, notify the journal

In future

- Educate on responsible use of metrics
- Work with institutional and publisher partners to increase awareness
- Newly-launched Altmetric Ambssadors program to help spread the word

Thanks for listening!

b. donohue@digital-science. com

♥ @altmetric