

Nouvelle génération d'indicateurs de l'impact de la recherche

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Université du Québec à Montréal

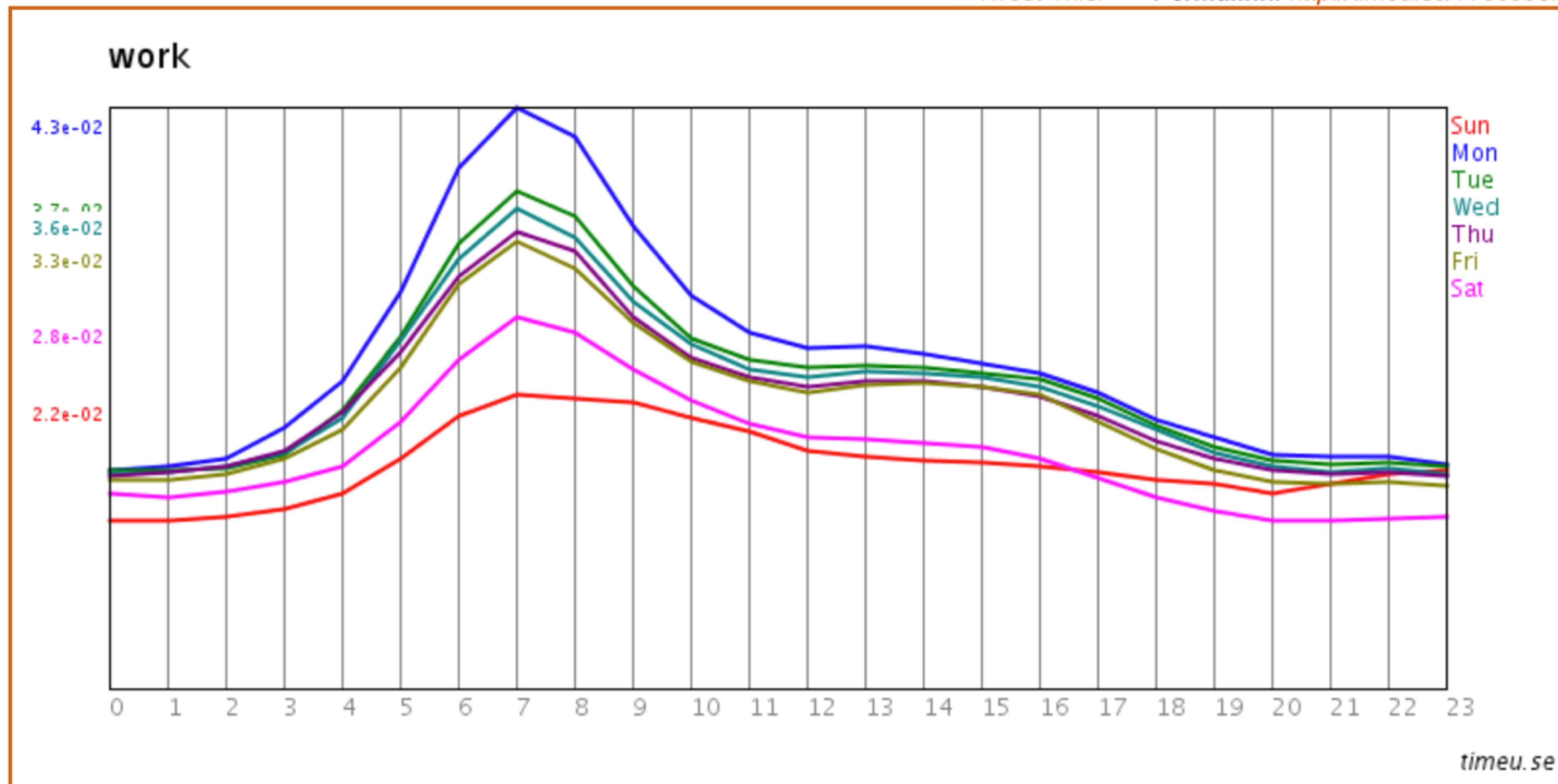
IRSST
20 novembre 2015

Altmetrics

- Part du principe que les mesures traditionnelles de l'impact scientifique (citations, facteur d'impact, etc.) ne donnent pas le « portrait complet »
 - Peuvent être influencées par les auteurs ou éditeurs
 - Prennent du temps avant d'être observées
- Les articles sont de plus en plus complémentés par des codes source, jeux de données, etc.
 - Sont-ils utilisés par les chercheurs ?
- Le numérique permet la collecte d'une foule d'autres informations sur la visibilité et l'utilisation de ces documents

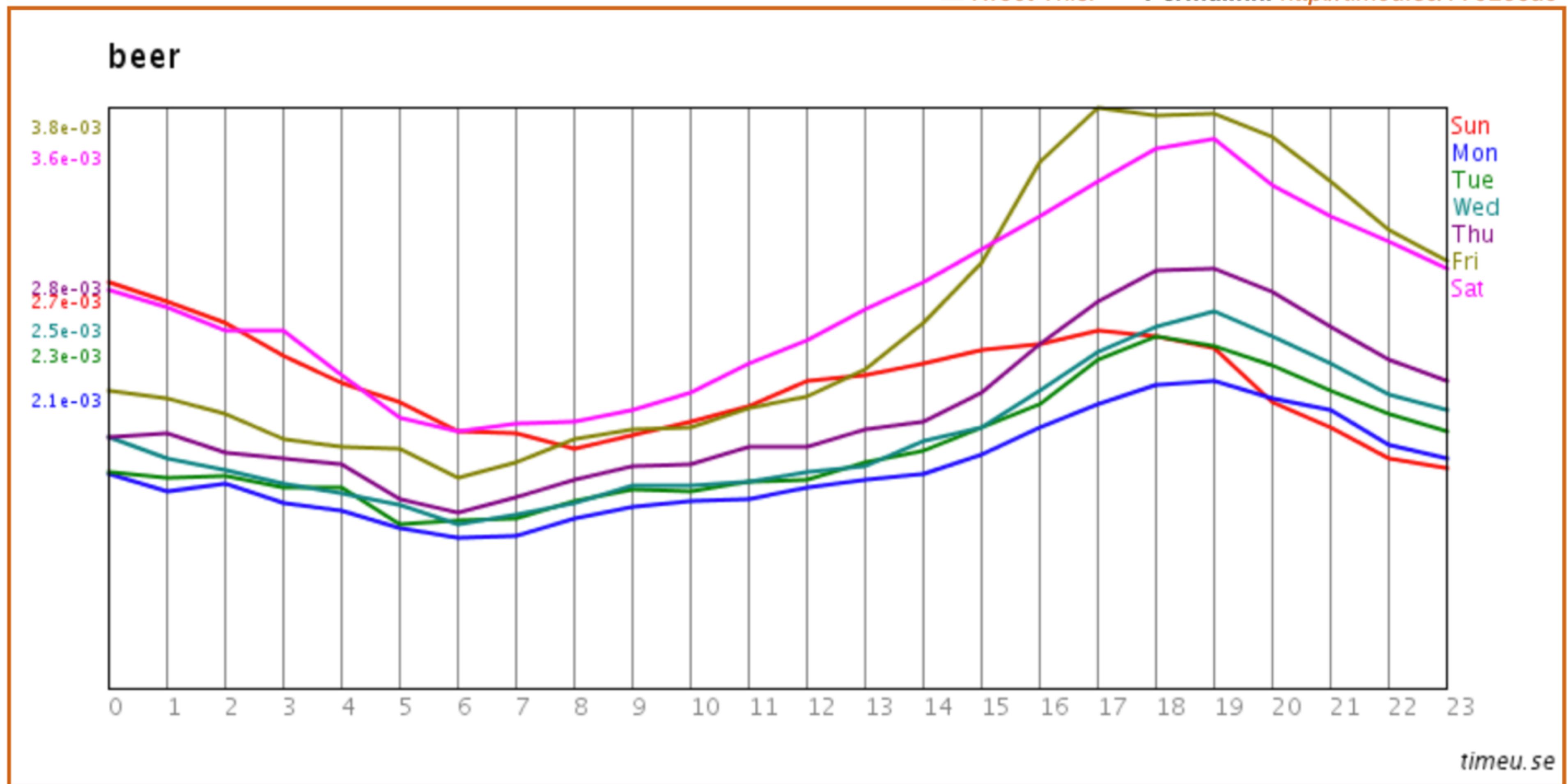
Twitter et l'analyse des tendances

- De quoi parlent les gens (et quand) ?
 - <http://timeu.se/>
- Twitter et la prédiction
 - La bourse
 - Les recettes de cinéma
 - Twitter prédit... Twitter!
- Twitter et les “sentiments”
 - <https://election.twitter.com/>

[Tweet This!](#)Permalink: <http://timeu.se/77ec0b8f>

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[Tweet This!](#)[Permalink: http://timeu.se/77e258ae](http://timeu.se/77e258ae)

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Altmetrics : origines

- Terme inventé par Jason Priem (doctorant UNC)
- Développé comme une alternative aux citations et à l'évaluation par les pairs

<http://altmetrics.org/manifesto/>

- “...altmetrics is a good idea, but a bad name”

Rousseau et Ye (2013)

- Plutôt complémentaire et non pas *alternatif*
- *social media metrics*



Altmetrics : visées

- Mesurer l'impact plus rapidement que les citations (qui prennent quelques années avant de s'accumuler)
 - Prédire l'impact scientifique
- Mesurer un “impact” plus large que ce que les citations permettent
 - Impact social ?
- Impact de tous les “outputs”
 - “value all research products”

Piwowar (2013)

Altmetrics : différentes formes

- Utilisation alternative et visibilité des publications sur les médias sociaux :



...

utilisation plus traditionnelle :



...

- Formes alternatives de diffusion des connaissances



...

- développement technocratique et pragmatique

Les altmetrics en action : PLOS

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RESEARCH ARTICLE

7,527	17	45	17
VIEWS	CITATIONS	SAVES	SHARES

The Effects of Aging on Researchers' Publication and Citation Patterns

Yves Gingras , Vincent Larivière, Benoît Macaluso, Jean-Pierre Robitaille

Published: December 29, 2008 • DOI: 10.1371/journal.pone.0004048

Article 

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- Abstract
- Introduction
- Methods
- Results
- Discussion
- Acknowledgments
- Author Contributions
- References

Abstract

The average age at which U.S. researchers receive their first grant from NIH has increased from 34.3 in 1970, to 41.7 in 2004. These data raise the crucial question of the effects of aging on the scientific productivity and impact of researchers. Drawing on a sizeable sample of 6,388 university professors in Quebec who have published at least one paper between 2000 and 2007, our results identify two turning points in the professors' careers. A first turning point is visible at age 40 years, where researchers start to rely on older literature and where their productivity increases at a slower pace—after having increased sharply since the beginning of their career. A second turning point can be seen around age 50, when researchers are the most productive whereas their average scientific impact is at its lowest. Our results also show that older professors publish fewer first-authored papers and move closer to the end of the list of co-

Subject Areas

- Aging
- Careers
- Careers in research
- Creativity
- Science policy
- Scientists

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RESEARCH ARTICLE

The Effects of Aging

Yves Gingras, Vincent Larivière, Bruno Latour

Published: December 29, 2008 • DOI: 10.1371/journal.pone.0004048

Saved ?

citeulike 2 MENDELEY 43

Viewed ?

Total Article Views

	HTML Page Views	PDF Downloads	XML Downloads	Totals
PLOS	6,145	842	40	7,027
PMC	335	165	n.a.	500
Totals	6,480	1,007	40	7,527

15.54% of article views led to PDF downloads

Discussed ?

twitter 17 Comments 1 Trackbacks 1 Google blogs Search 1

Information on PLOS Article-Level Metrics

Questions or concerns about usage data? Please let us know.

Cumulative Views

Compare average usage for articles published in 2008 in the subject area:

Anatomy and physiology Show reference set

*Although we update our data on a daily basis, there may be a 48-hour delay before the most recent numbers are available. PMC data is posted on a monthly basis and will be made available once received.

figshare 7

ences

Creativity

Science policy

Scientists

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nature International weekly journal of science

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Archive > Volume 501 > Issue 7465 > Letters > Article

NATURE | LETTER

日本語要約

Video game training enhances cognitive control in older adults

J. A. Anguera, J. Boccanfuso, J. L. Rintoul, O. Al-Hashimi, F. Faraji, J. Janowich, E. Kong, Y. Laraburo, C. Rolle, E. Johnston & A. Gazzaley

Affiliations | Contributions | Corresponding authors

Nature 501, 97–101 (05 September 2013) | doi:10.1038/nature12486
Received 16 January 2013 | Accepted 18 July 2013 | Published online 04 September 2013

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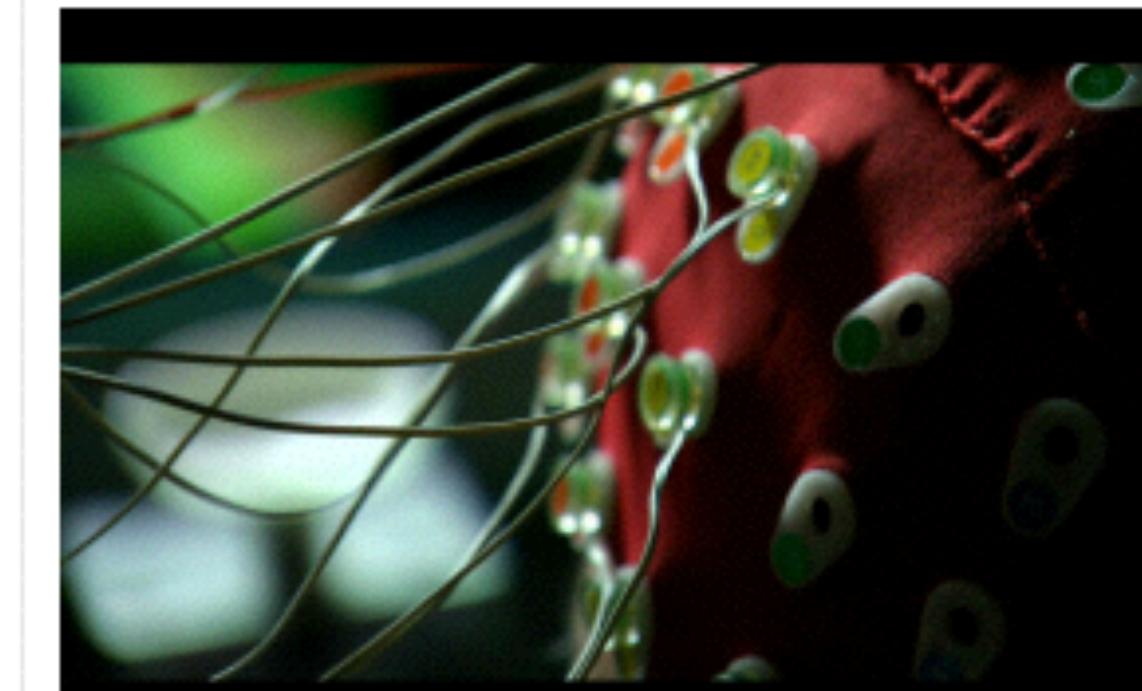
Cognitive control is defined by a set of neural processes that allow us to interact with our complex environment in a goal-directed manner¹. Humans regularly challenge these control processes when attempting to simultaneously accomplish multiple goals (multitasking), generating interference as the result of fundamental information

Editor's summary الجريدة

Our ability to multitask and our capacity for cognitive control decline linearly as we age. A new study shows that cognitive training can help repair this decline. In older adults aged between 60 and ...

Related video

Rewiring up brain skills



▶ PLAY 00:00 / 03:07

A video game can improve declining cognitive

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nature International weekly journal of science

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NATURE | LETTER

日本語要約

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Cognitive control is defined by a set of n complex environment in a goal-directed ma control processes when attempting to simulta (multitasking), generating interference as the result of fundamental information

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Online attention

Altmetric score (what's this?)

Category	Count
Tweeted by	577
On Facebook pages	39
Mentioned in Google+ posts	20
Picked up by news outlets	64
Reddit	1
Blogged by	27
F1000	3
Video	2

View less

This Altmetric score means that the article is:

- in the 99 percentile (ranked 13th) of the 84,617 tracked articles of a similar age in all journals
- in the 99 percentile (ranked 5th) of the 964 tracked articles of a similar age in Nature

A video game can improve declining cognitive control in older adults

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nature International

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NATURE | LETTER

日本語要約

Video game training older adults

J. A. Anguera, J. Boccanfuso, J. L. Larraburo, C. Rolle, E. Johnston &

Affiliations | Contributions | Corrections

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Received 16 January 2013 | Accepted 16 July 2013

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Cognitive control is defined by a complex environment in a goal-directed control processes when attempting (multitasking), generating interference as the result of fundamental information

News Blogs Twitter Peer reviews Facebook Google+ Reddit Research highlights Video

Score Demographics Help

So far Altmetric has seen 577 tweets from 553 accounts with an upper bound of 905,842 combined followers.

 Florian Ederer
@florianederer
669 followers

I always knew that playing FIFA, Starcraft and GTA had positive effects:
<http://t.co/dvpS0el5Mj>

04-Sep-2013

 Prof. Abel Méndez
@ProfAbelMendez
4,781 followers

Another excuse: Video game training enhances cognitive control in older adults
<http://t.co/ac20vKM1Py>

04-Sep-2013

 Gene Cross
@optixwiz
230 followers

Another excuse: Video game training enhances cognitive control in older adults
<http://t.co/ac20vKM1Py>

04-Sep-2013

 Galen Bodenhausen
@GVBodenhausen
686 followers

Video game training enhances cognitive control in older adults| gated paper:
<http://t.co/HajMqtzFu5> ungated coverage: <http://t.co/t6aOobWXsO>

04-Sep-2013

 Syng
@dixy0
166 followers

Video game training enhances cognitive control in older adults <http://t.co/vyeknTcM12>

04-Sep-2013

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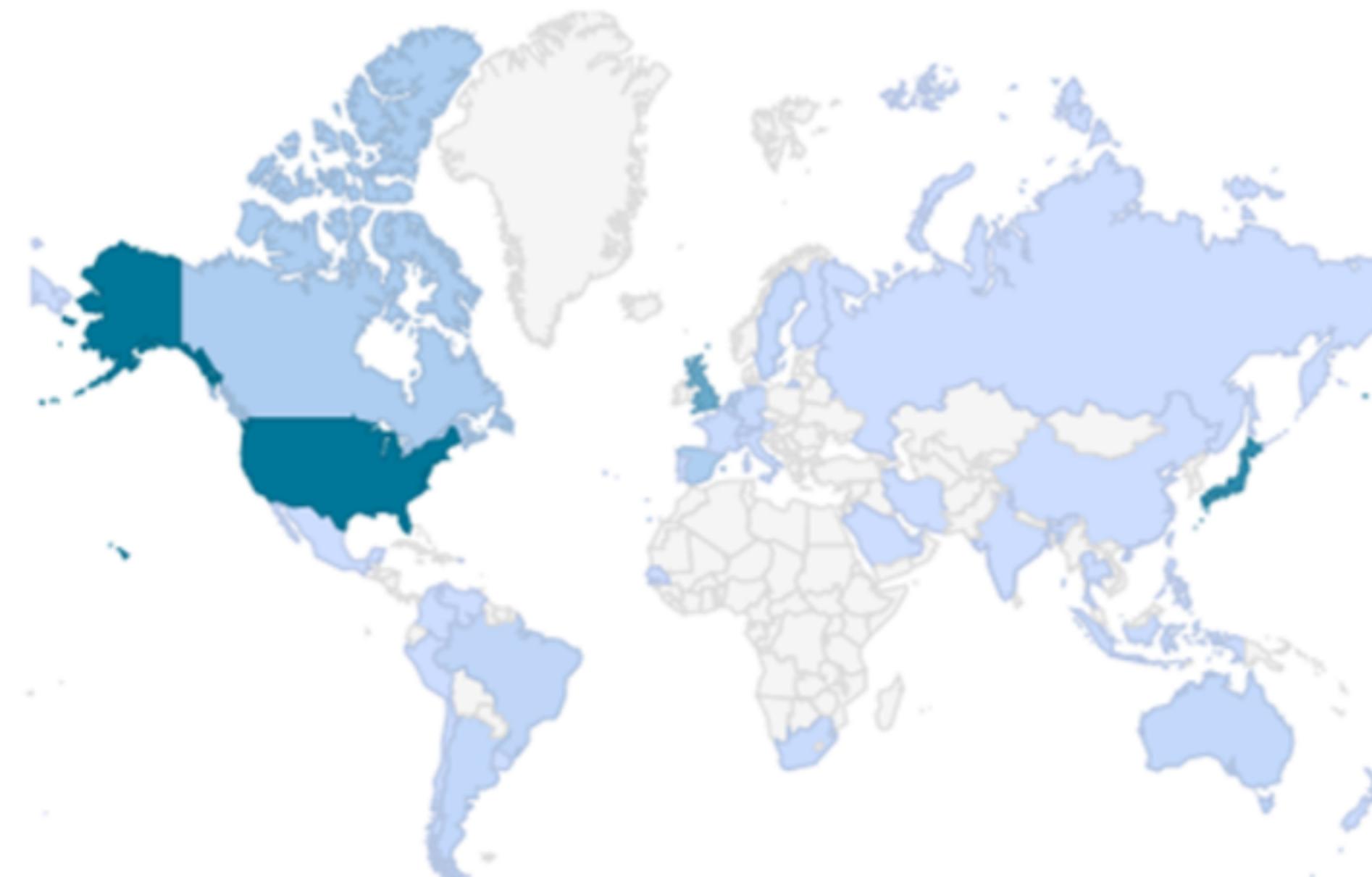
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So far Altmetric has seen 577 tweets from 553 accounts with an upper bound of 905,842 combined followers.

Twitter attention

The data shown below were collected from the profiles of tweeters who shared this article. Click [here](#) to find out more about how the information was compiled.

Geographical breakdown



#	Country	As %
1	US	16%
2	JP	13%
3	GB	8%
4	CA	2%
4	ES	2%
6	NL	1%
6	BR	1%
6	AR	1%
9	BE	<1%
-	Other	8%
-	Unknown	43%

(multitasking), generating interference as the result of fundamental information

Les altmetrics en action : altmetric.com



Nick Byrd
@byrd_nick

PhD student linking to #cogsci, #neuroscience, #psychology, #xPhi, #philSci, #philMind, #philosophy, #reasoning, #implicitBias, #selfContrc #wellbeing.

@CU-Boulder & @FSU
byrdnick.com
Joined August 2011



MediGlance
@MediGlance

Here's what we think are the top 10 most exciting medical articles of the week from the top 5 medical journals, enjoy! :)



Florian Ederer
@florianederer

Austrian. Economist. But definitely not Austrian economist! @YaleSOM

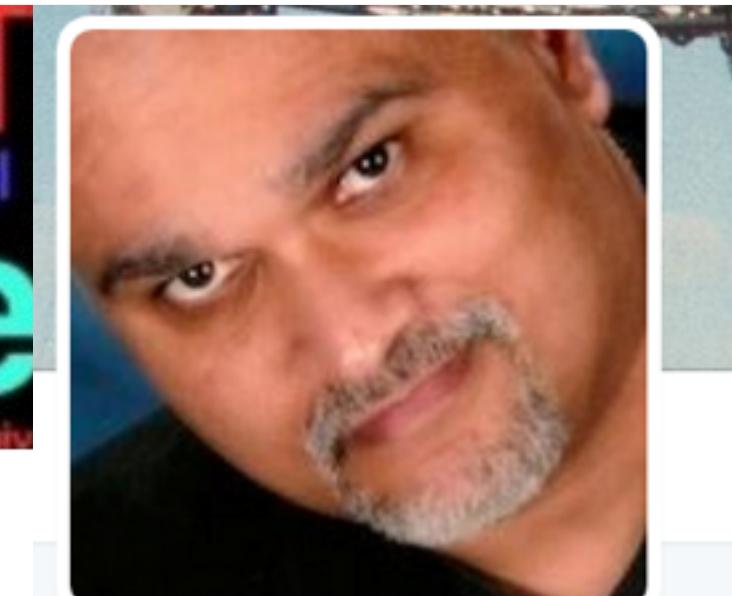
New Haven, CT
faculty.som.yale.edu/florianederer



AFA
@alzfdn

Alzheimer's Foundation of America: A leading national nonprofit organization providing optimal care to individuals with dementia, and caregivers.

New York City
alzfdn.org



Prof. Abel Méndez
@ProfAbelMendez

Planetary Scientist and Astrobiologist. Director of the Planetary Habitability Laboratory @ UPR Arecibo. Studying habitable worlds in the universe.

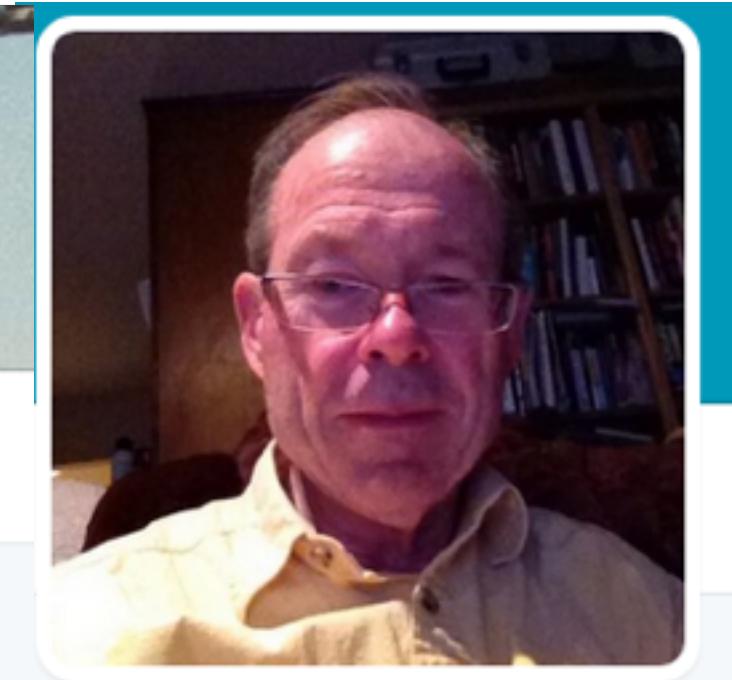
Arecibo, Puerto Rico
phl.upr.edu
Joined November 2009



Ricky Chan
@ChanR11

Fueling NeuroTech Ontario with Big Data & Analytics @OntarioBrain | Catalyzing partnerships to advance new tech | #NeuroTechON | (views are my own)

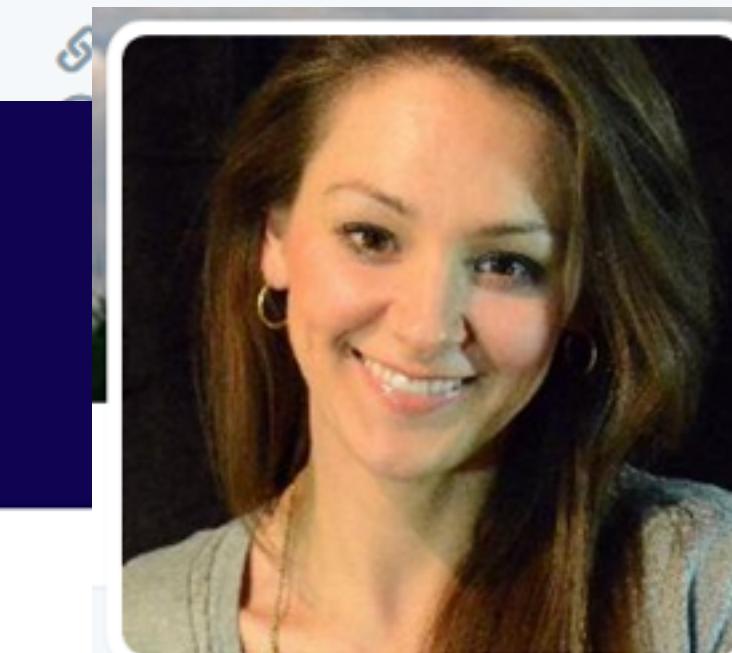
Toronto, Ontario, Canada



Gene Cross
@optixwiz

Astronomy is my passion! My day job is optical engineering, including design and build of telescopes and instruments.

The Niles District of Fremont,
[optixwiz.com](#)
Joined November 2009



Rebecca Latham
@RebeccaLatham

Detailed realism in watercolor (animals & nature), showing in galleries & exhibits worldwide. Loves art, nature, wildlife, science, tech, travel & nice people.

My studio in the frozen woods.
lathamstudios.com/rebecca
Joined December 2007



Paul Gribble
@paulgribble

Professor; originally from Vancouver
London, Ontario, Canada
gribblelab.org
Joined July 2008



Timothy Wachtel
@WachtelTim

Founder at COAD @optimaladult, evidence-informed Development and #Learning of adults, e-Learning Content Developer, Collaborator

Austin, Texas USA
optimaladult.org
Joined March 2012



Les altmetrics en action : *impactstory*

Carl Boettiger



Theoretical Ecologist. Bio at: <http://carlboettiger.info>

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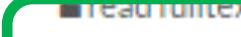
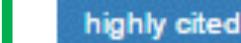
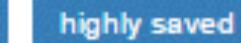
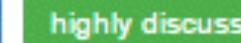
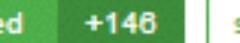
     

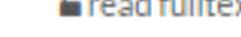
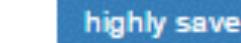
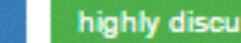
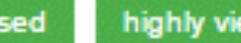
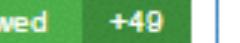
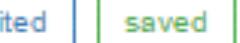
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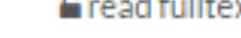
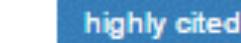
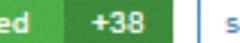
Map

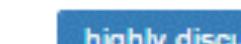
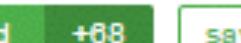
 articles (16)  datasets (23)  figures (1)  posters (3)  slide decks (16)  software products (49)  unknowns (9)

Selected works

 Is your phylogeny informative? Measuring the power of comparative methods.
(2012) Boettiger, Coop, Ralph. *Evolution*
     +146 

 rfishbase: exploring, manipulating and visualizing FishBase data from R.
(2012) Boettiger, Lang, Wainwright. *Journal of fish biology*
    +49  

 Tipping points: From patterns to predictions.
(2013) Boettiger, Hastings. *Nature*
    +38 

 Lab Notebook, 2012
(2013) figshare.
  +11  +100
 +68  +1

Key profile metrics

1.4M	 impressions on	 16 articles
773	 saves on	 16 articles
99.4k	 impressions on	 23 datasets
33.2k	 impressions on	 16 slide decks
93	 forks on	 49 software products

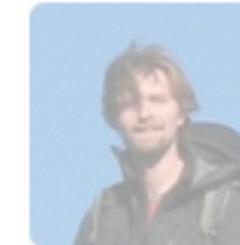
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 Impactstory



Les altmetrics en action : *impactstory*

Carl Boettiger



Theoretical Ecologist. Bio at: <http://carlboettiger.info>



Open Access



Early warning signals and the prosecutor's fallacy.

(2012) Boettiger, Hastings. *Proceedings. Biological sciences / The Royal Society*

Free fulltext available at royalsocietypublishing.org

highly cited by scholars

12 Scopus citations

+1

89 - 97 percentile of articles published in 2012

highly saved by scholars

6 CiteULike bookmarks

94 - 99 percentile of articles published in 2012

highly saved by scholars

75 Mendeley readers

94 - 99 percentile of articles published in 2012

highly discussed by public

12 tweets

+1

97 - 100 percentile of articles published in 2012

(2013) Boettiger, Hastings. *Nature*

read fulltext

highly cited

highly discussed

highly viewed

+38

Lab Notebook, 2012

(2013) figshare.

highly discussed

highly viewed

+11

highly discussed

highly viewed

+68

saved

+1

Summary

Full text

Metrics

Map

191 Mendeley readers

99th percentile on Impactstory

30 Scopus citations

92nd percentile on Impactstory

3993 Twitter impressions

78th percentile on Impactstory

148 Impactstory views

+148

99th percentile on Impactstory

1 CiteULike bookmark

72nd percentile on Impactstory

2 Twitter tweets

64th percentile on Impactstory

1 Delicious bookmark

98th percentile on Impactstory

Summary

Full text

Metrics

Map

191

30

3993

148

+148

1

2

1

Croissance des médias sociaux

- Croissance mensuelle de 5 % à 10 % de l'activité liée aux articles savants sur les médias sociaux
- **Mendeley** et **Twitter** sont les deux sources qui mentionnent le plus les documents savants :

Mendeley



MENDELEY

521 millions signets

2,7 millions utilisateurs

32 % croissance utilisateurs du 9/2012 à
09/2013

Twitter



500 millions tweets par jour

230 millions utilisateurs actifs

39 % croissance utilisateurs

de 9/2012 à 09/2013

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Mendeley et Twitter : Prévalence



Mendeley

- 93 % des articles de Science en 2007 (Li, Thelwall et Giustini, 2012)
- 94 % des articles de Nature en 2007 (Li, Thelwall et Giustini, 2012)
- 80 % des articles de PLOS en 2003-2010 (Pries, Piwowar et Hemminger, 2012)
- 66 % des articles PubMed/WoS 2010-2012 (Haustein et al., 2014a)
- 63 % des articles WoS avec un DOI 2005-2011 (Zahedi, Costas et Wouters, 2014)
- 47 % des articles en sciences sociales (WoS) en 2008 (Mohammadi et al., 2014)
- 35 % des articles en génie (WoS) en 2008 (Mohammadi et al., 2014)
- 31 % des articles en physique (WoS) en 2008 (Mohammadi et al., 2014)
- 13 % des articles en humanités (WoS) en 2008 (Mohammadi et Thelwall, 2014)



Twitter

- 2 % des articles (WoS) avec un DOIs 2005-2011 (Zahedi, Costas et Wouters, 2014)
- 9 % des articles PubMed/WoS 2010-2012 (Haustein et al., 2014b)
- 13 % of WoS papers with DOIs July-December 2011 (Costas, Zahedi et Wouters, 2014)
- 22 % of WoS papers with DOIs 2012 (Haustein, Costas et Larivière, submitted)

Altmetrics : Critiques

- Qu'est-ce que ça mesure ?
 - Quel type d'impact ? Social ? Scientifique ?
 - Buzz ?
- Limites :
 - Distributions tout aussi non paramétriques que les citations
 - Peut-être facilement modifié, tricoté, bref, influencé...
 - On ne connaît pas sa signification dans le processus de communication savante

Relation entre tweets et citations

Corrélations pour le domaine médical

Publication year	Twitter coverage	Papers ($T \geq 1$)	Spearman's ρ	Mean	Median	Maximum
T ²⁰¹⁰	2.4%	13,763	.104**	2.1	1	237
C ²⁰¹⁰				18.3	7	3,922
T ²⁰¹¹	10.9%	63,801	.183**	2.8	1	963
C ²⁰¹¹				5.7	2	2,300
T ²⁰¹²	20.4%	57,365	.110**	2.3	1	477
C ²⁰¹²				1.3	0	234
T ²⁰¹⁰⁻²⁰¹²	9.4%	134,929	.114**	2.5	1	963
C ²⁰¹⁰⁻²⁰¹²				5.1	1	3,922

Relation entre tweets et citations

Proportion d'articles «tweetés»

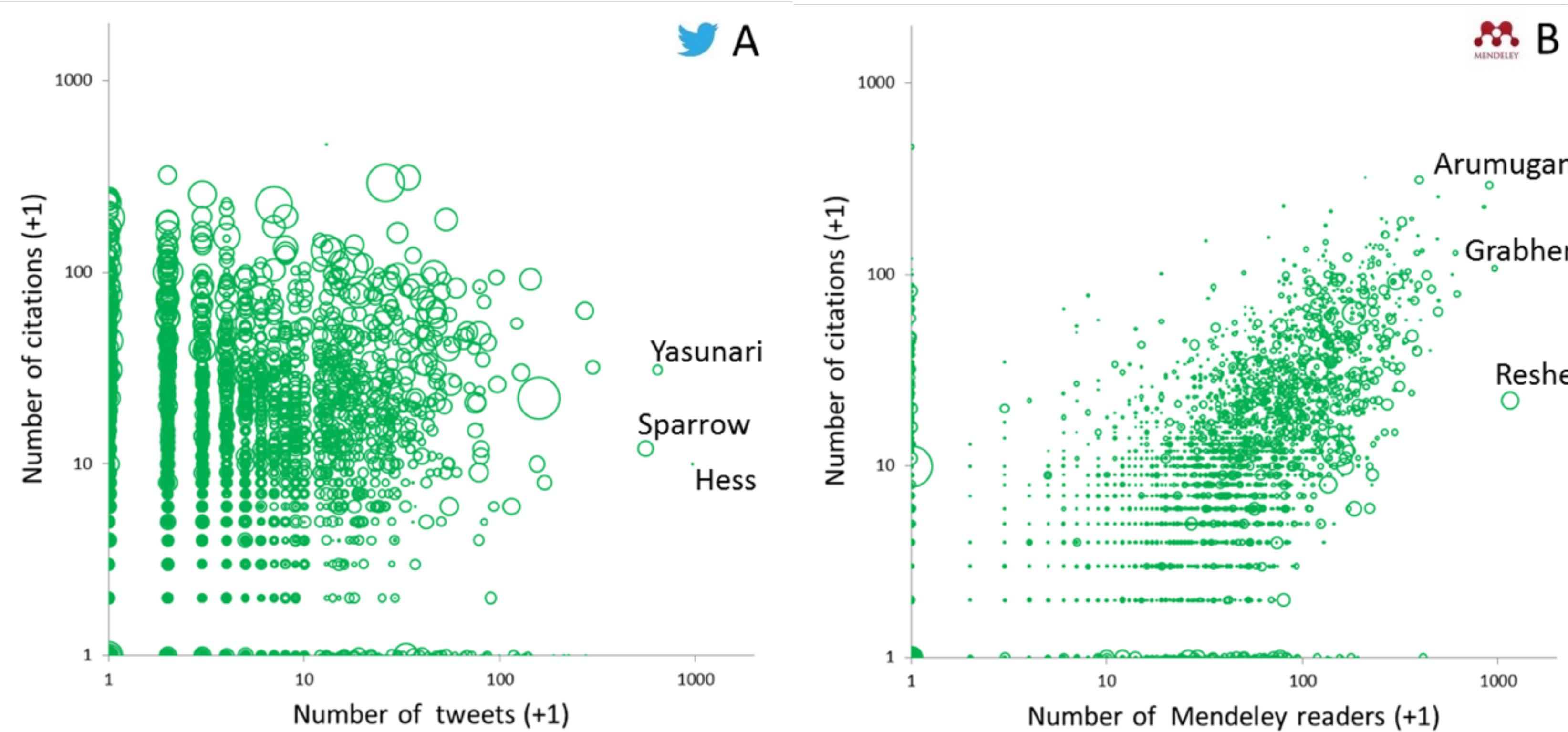
NSF disciplines	P_{PubMed}	$P_{tweeted}$	$P\%_{tweeted}$	T	$T/P_{tweeted}$
Biology	61,587	4,357	7.1%	9,634	2.2
Chemistry	121,770	6,640	5.5%	10,933	1.6
Clinical Medicine	774,961	77,991	10.1%	184,002	2.4
Earth and Space	26,925	1,070	4.0%	2,885	2.7
Engineering and Technology	27,567	1,517	5.5%	2,916	1.9
Health	58,580	7,483	12.8%	17,306	2.3
Humanities	691	45	6.5%	121	2.7
Mathematics	2,459	134	5.4%	197	1.5
Physics	19,353	340	1.8%	539	1.6
Professional Fields	5,586	950	17.0%	2,510	2.6
Psychology	35,873	5,350	14.9%	16,240	3.0
Social Sciences	8,922	812	9.1%	2,192	2.7
Total	1,431,399	134,929	9.4%	340,751	2.5

Relation entre tweets et citations

Citations et tweets (A, $p=0.181^{**}$)

Citations et lecteurs Mendeley (B, $\rho = 0.677^{**}$)

General Biomedical Research papers 2011

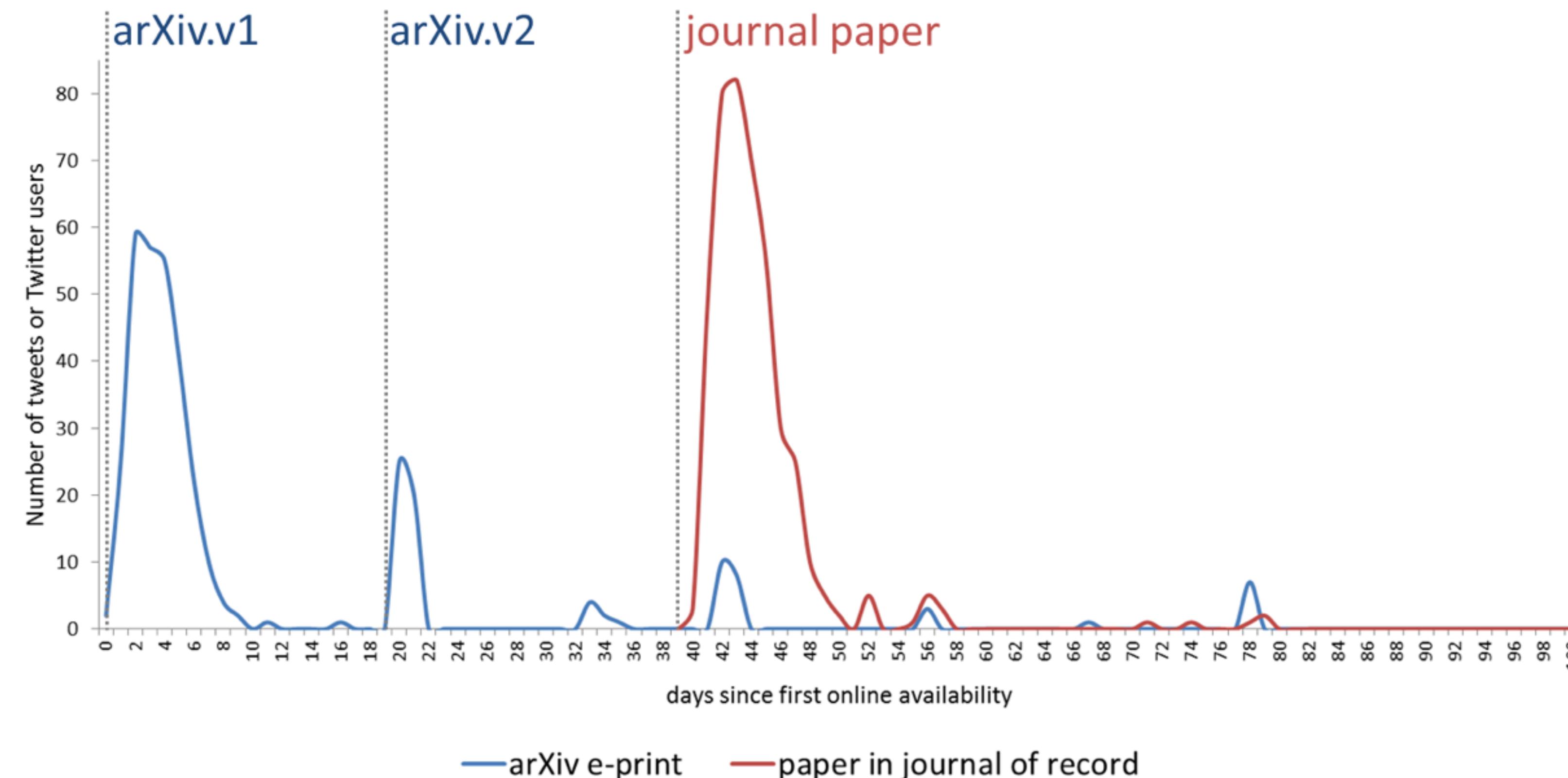


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La vie d'un tweet

Traces de multiples versions d'un document



Relation entre tweets et citations

Articles les plus «tweetés»

Top 10 tweeted documents:

catastrophe & topical / web & social media / curious story
 scientific discovery / health implication / scholarly community

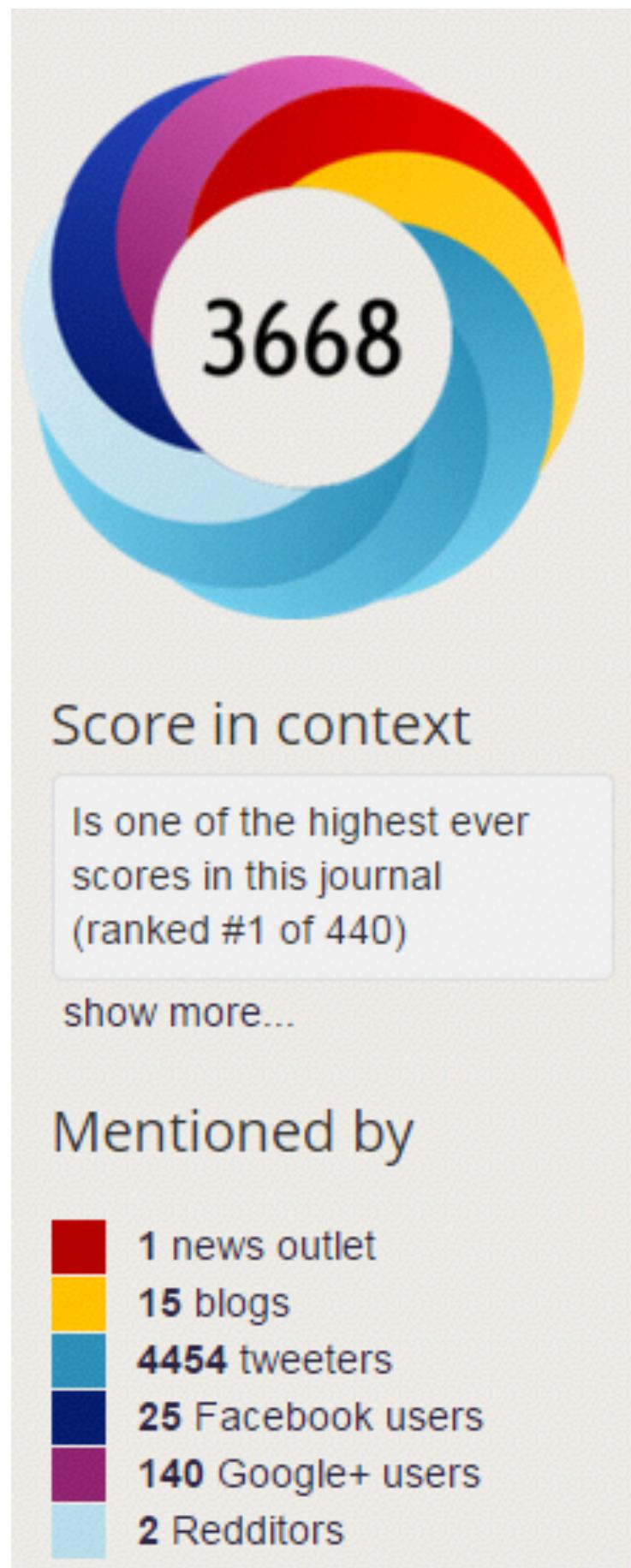
Article	Journal	C	T
Hess et al. (2011). Gain of chromosome band 7q11 in papillary thyroid carcinomas of young patients is associated with exposure to low-dose irradiation	PNAS	9	963
Yasunari et al. (2011). Cesium-137 deposition and contamination of Japanese soils due to the Fukushima nuclear accident	PNAS	30	639
Sparrow et al. (2011). Google Effects on Memory: Cognitive Consequences of Having Information at Our Fingertips	Science	11	558
Onuma et al. (2011). Rebirth of a Dead Belousov–Zhabotinsky Oscillator	Journal of Physical Chemistry A	--	549
Silverberg (2012). Whey protein precipitating moderate to severe acne flares in 5 teenaged athletes	Cutis	--	477
Wen et al. (2011). Minimum amount of physical activity for reduced mortality and extended life expectancy: a prospective cohort study	Lancet	51	419
Kramer (2011). Penile Fracture Seems More Likely During Sex Under Stressful Situations	Journal of Sexual Medicine	--	392
Newman & Feldman (2011). Copyright and Open Access at the Bedside	New England Journal of Medicine	3	332
Reaves et al. (2012). Absence of Detectable Arsenate in DNA from Arsenate-Grown GFAJ-1 Cells	Science	5	323
Bravo et al. (2011). Ingestion of Lactobacillus strain regulates emotional behavior and central GABA receptor expression in a mouse via the vagus nerve	PNAS	31	297

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doi:10.1088/1751-8113/44/49/492001

FAST TRACK COMMUNICATION

Can apparent superluminal neutrino speeds be explained as a quantum weak measurement?

M V Berry¹, N Brunner¹, S Popescu¹ and P Shukla²

¹ H H Wills Physics Laboratory, Tyndall Avenue, Bristol BS8 1TL, UK

² Department of Physics, Indian Institute of Technology, Kharagpur, India

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Conrad Hackett
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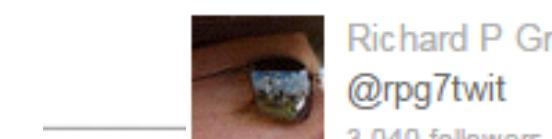
M V Berry¹, N Brunner¹, S Popescu¹ & P Shukla²

¹H H Wills Physics Laboratory, Tyndall Avenue, Bristol BS8 1TL, UK

² Department of Physics, Indian Institute of Technology, Kharagpur, India

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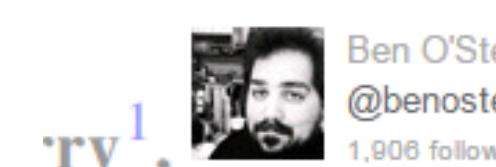
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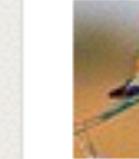
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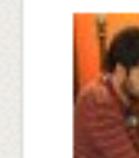
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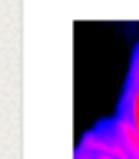
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Although association preferences documented in our study theoretically could be a consequence of either mating or shoaling preferences in the different female groups investigated (should we cite the crappy Gabor paper here?), shoaling preferences are unlikely drivers of the documented patterns both because of evidence from previous research and inconsistencies with *a priori* predictions. Our methods closely followed those of published mate choice experiments in this system (Tobler et al. 2009a,b; Plath et al. 2013),

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TU-NOV-2014

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Global pattern of experienced and anticipated discrimination reported by people with major depressive disorder: a cross-sectional survey	243	132
Is prostitution harmful?	738	15
Effect of range of motion in heavy load squatting on muscle and tendon adaptations	216	36
Long working hours may increase risk of coronary heart disease	193	2
Prevalence of hearing loss in the United States by industry	218	30
Early predictors of lumbar spine surgery after occupational back injury: results from a prospective study of workers in Washington State.	218	12
Genetic damage in soybean workers exposed to pesticides: evaluation with the comet and buccal micronucleus cytome assays.	204	27
Are flexibility and muscle-strengthening activities associated with a higher risk of developing low back pain?	136	2
Is cancer risk of radiation workers larger than expected?	129	50