Altmetrics and Enlighten

June 2014
Open Repositories 2014, Helsinki, Finland

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altmetrics: a manifesto

No one can read everything. We rely on filters to make sense of the scholarly literature, but the narrow, traditional filters are being swamped. However, the growth of new, online scholarly tools allows us to make new filters; these altmetrics reflect the broad, rapid impact of scholarship in this burgeoning ecosystem. We call for more tools and research based on altmetrics.

As the volume of academic literature explodes, scholars rely on filters to select the most relevant and significant sources from the rest. Unfortunately, scholarship’s three main filters for importance are failing:

- Peer-review has served scholarship well, but is beginning to show its age. It is slow, encourages conventionality, and fails to hold reviewers accountable. Moreover, given that most papers are eventually published somewhere, peer-review fails to limit the volume of research.
- Citation counting measures are useful, but not sufficient. Metrics like the h-index are even slower than peer-review: a work’s first citation can take years. Citation measures are narrow; influential work may remain uncited. These metrics are narrow; they neglect impact outside the academy, and also ignore the context and reasons for citation.
- The JIF, which measures journals’ average citations per article, is often incorrectly used to assess the impact of individual articles. It’s troubling that the exact details of the JIF are a trade secret, and that significant gaming is relatively easy.

Tomorrow’s filters: altmetrics

In growing numbers, scholars are moving their everyday work to the web. Online reference managers Zotero and Mendeley each claim to store over 40 million articles (making them substantially larger than PubMed); as many as a
Why altmetrics and repositories?

- Opportunities to add value and engage with (and empower) academic colleagues
- Complimentary to traditional metrics (citations)
- Discovering new outlets for content
- Exploring new measures of impact or “just empty buzz” [altmetrics manifesto]
- Chance to working with services like Altmetric.com
- Ease of integration with repositories (like EPrints)
- Getting in on the ground floor
Glasgow’s Altmetric Timeline

• Sep 12 - Elsevier/Scopus tweet about Altmetric integration
• Jan 13 - Euan's Altmetrics/repository blog post
• May 13 - Altmetrics demo to University staff
• July 13 - Discussions with EPrints - City example
• Late July – EPrints demo “With and without Altmetrics”
• Aug 13 – Added API key, soft launched for all DOIs
• Ongoing advocacy and demos of Altmetrics in Enlighten
Altmetrics in libraries and institutional repositories

Euan Adie
January 22, 2013  12 Comments

We get asked a lot about the use of Altmetric data by academic libraries and institutional repositories so I figured it was worth outlining the services we offer and extending an invite to have a chat to anybody else who is curious – we’re always happy to hear your thoughts on altmetrics in general and to give talks or demos. You can reach me directly at euan@altmetric.com.

(for an overview of the potential uses of alt-metrics by libraries that includes reviews of other tools check out Stacey Konkiel’s awesome Altmetrics: An App Review slides or view the video of her talk here)

Explorer access – free for individual librarians, paid site licenses for researchers

If you’re a librarian at an academic institution we’d love for you to sign up for a free librarian account for the Altmetric Explorer, our analysis and discovery tool. Poke around, check out the data, set up some reports, use it to help patrons... and keep it for as long as you like.

Just drop us a line at support@altmetric.com using your institutional email address and we’ll get you set up with a login and a quick demo, if desired.

If you think access would be useful to your researchers or students too ping us about sorting out a paid site license which’ll enable us to keep developing the service.

(note that if you’re not a librarian you can still use our free bookmarklet)

Integration with Ex Libris’ Primo

Last month Ex Libris added a free Altmetric tab plugin to EL Commons. Anybody can download and install it at which point their users will be able to see their Altmetric scores in their Primo search results.
For Librarians and Repository Managers

We bring the scholarly conversation to you.

Each week Altmetric captures hundreds of thousands of tweets, blog posts, news stories and other content that mention scholarly articles.

The Altmetric Explorer lets you monitor, search and measure conversations about publications by people affiliated with your institution. Best of all, the Altmetric Explorer is free for librarians. E-mail us today to request an account.

Showcase and track the impact of papers within your institutional repository.

See the impact of your institution's researchers using the Altmetric Explorer

Dive straight into the data

As a portal to all the relevant conversations, the Explorer lets you discover interesting new papers while conveying a broad sense of research impact through multiple metrics. Get started by contacting us for a free trial account to the Explorer.

See all the conversations at once

The Explorer's intuitive interface lets you quickly browse through all of the conversations around each article from Twitter, Facebook, science blogs, mainstream news outlets and many more sources.

Versatile filtering, reporting & analysis features
Enlighten is the University of Glasgow's institutional repository service for published research material including:
- peer-reviewed journal articles
- published conference papers
- books and book chapters

There are many benefits to depositing your research in Enlighten find out more...

UNIVERSITY PUBLICATIONS POLICY

At the meeting of Senate on 5th June 2008 a new University Publications Policy was approved. The key aim of the new policy is to maximise the impact of the University's research by making publications as widely and freely available as possible through the University's institutional repository Enlighten. The policy will apply from the beginning of the 2008/2009 academic session.

KEY INFORMATION FOR GLASGOW AUTHORS

Enlighten also provides University of Glasgow authors with advice on how to deposit papers in the service and information on related issues such as open access publishing and complying with funding body open access policies.
Statistics Overview

All items

Downloads

Activity Overview

69,835 Items

11% Full text

1,186,665 Downloads

10% Open access

Most downloaded items

1. Reconstructing vectorised photographic images 14,661
2. Management of needlestick injuries in general dental practice 12,920
3. PID control system analysis, design, and technology 12,118
4. Auditor independence and audit risk: a reconceptualisation 11,646

Top Authors

1. Prof Vivien Beattie 93,513
2. Prof Timothy Miller 36,643
3. Prof Yun Li 28,375
4. Prof Jeremy Bagg 22,094
5. Prof Asen Asenov 19,678
The Altmetric Bookmarklet
Instantly get article level metrics for any recent paper, for free.

Reading a paper and want to find out its Altmetric details? Install our free bookmarklet for Chrome, Firefox and Safari.

Simply drag the button below to your bookmarks bar, navigate to a journal article page, and hit "Altmetric it!"

1. Add bookmarklet to your bookmarks toolbar
2. Visit any paper
3. Get article level metrics with a single click

More details on how to get started
A new twist on the Doppler shift


Full text not currently available from Enlighten.

Publisher's URL: http://dx.doi.org/10.1063/PT.3.2286

Abstract

Light with orbital angular momentum will undergo a frequency shift when it bounces off a rotating object.
The Altmetric API

Deliver article level metrics to your authors and users.

Altmetric does all the heavy lifting involved in extracting, disambiguating and collating mentions of scholarly works online, allowing you focus on your core product.

The Altmetric API gives you programmatic access the article level metrics data associated with articles and datasets collected by Altmetric.

Deliver a wealth of data with the Altmetric API

With the Altmetric API, you can unlock the full potential of article level metrics for your journal platform or project.

A wealth of data

Complement conventional article level metrics such as download counts and citations with social media conversations, news stories and policy documents.

Reliable, enterprise-level performance

We handle millions of API calls every week, and use it ourselves in our Explorer app and embeddable badges.

Flexible data to suit your needs

With complete access to all of the conversations that Altmetric collects, you can have the freedom to showcase the metrics that matter most to your users.

Using the Altmetric API

With a commercial license for the API, you’ll be able to view detailed altmetrics about articles, download Altmetric data in bulk, perform complex queries and remove all rate limits.
Direct measurement of a 27-dimensional orbital-angular-momentum state vector


Full text not currently available from Enlighten.

Publisher's URL: http://dx.doi.org/10.1038/ncomms4115

Abstract

The measurement of a quantum state poses a unique challenge for experimentalists. Recently, the technique of 'direct measurement' was proposed for characterizing a quantum state in situ through sequential weak and strong measurements. While this method has been used for measuring polarization states, its real potential lies in the measurement of states with a large dimensionality. Here we show the practical direct measurement of a high-dimensional state vector in the discrete basis of orbital angular momentum. Through weak measurements of orbital angular momentum and strong measurements of angular position, we measure the complex probability amplitudes of a pure state with a dimensionality, $d=27$. Further, we use our method to directly observe the relationship between rotations of a state vector and the relative phase between its orbital-angular-momentum components. Our technique has important applications in high-dimensional classical and quantum information systems and can be extended to characterize other types of large quantum states.
Direct measurement of a 27-dimensional orbital-angular-momentum state vector

So far Altmetric has seen 15 stories from 12 outlets.

Peeking into Schrodinger's box: Direct measurement shows potential for quantum information
Phys.org
Until recently measuring a 27-dimensional quantum state would have been a time-consuming, multistage process using a technique c ...
2014-01-20T10:00:01-00:00

Peeking into Schrodinger's box
EurekAlert!
( University of Rochester ) Until recently measuring a 27-dimensional quantum state would have been a time-consuming, multistage ..
2014-01-20T05:00:00-00:00

Peeking into Schrodinger's box
R&D
Until recently, measuring a 27-dimensional quantum state would have been a time-consuming, multistage process using a technique ..
2014-01-20T14:46:23-00:00

Peeking into Schrodinger's Box
Science Newsline
Until recently measuring a 27-dimensional quantum state would have been a time-consuming, multistage process using a technique c ..
2014-01-20T14:33:00-00:00

Peeking into Schrodinger's box
e! Science News
Until recently measuring a 27-dimensional quantum state would have been a time-consuming, multistage process using a technique c ..
2014-01-20T16:05:09-00:00
Fractality of light's darkness


Full text not currently available from Enlighten.

Abstract

Natural light fields are threaded by lines of darkness. For monochromatic light, the phenomenon is familiar in laser speckle, i.e., the black points that appear in the scattered light. These black points are optical vortices that extend as lines throughout the volume of the field. We establish by numerical simulations, supported by experiments, that these vortex lines have the fractal properties of a Brownian random walk. Approximately 73% of the lines percolate through the optical beam, the remainder forming closed loops. Our statistical results are similar to those of vortices in random discrete lattice models of cosmic strings, implying that the statistics of singularities in random optical fields exhibit universal behavior.
Altmetric

Display altmetric’s badges on summary pages. Visit the altmetric web-site for more information:
http://www.altmetric.com/

Item Type: EPM
Version: 1.0.5
SWORD Depositor: Sebastien Francois
Depositing User: Sebastien Francois
Date Deposited: 21 Nov 2013 17:02
Last Modified: 21 Nov 2013 17:02
URI: http://bazaar.scripts.org/d/eprint/340
File List: epm/altmetric/cgi/cgi.d2zAltmetric.pl
http://bazaar.scripts.org/d/eprint/340

Other Versions: • Altmetric (deposited 24 Oct 2013 12:30)
  • Altmetric (deposited 30 Oct 2013 08:48)
  • Altmetric (deposited 21 Nov 2013 17:02) [Currently Displayed]
The score in the middle of the Altmetric donut visualization gives you a quick idea of the level of attention that a paper has received. We get a lot of positive feedback from authors about it – but we also sometimes hear legitimate worries from some editors and institutional repositories that it might make researchers think that they’re being judged. It’s a tricky balancing act: we want to make the data as easy as possible for users to get into and explore, and to help identify articles around which there’s a lot of buzz, without sending the wrong message that numbers are more important than the underlying data (Phil Davis wrote an interesting post on the pros and cons of different altmetrics visualizations at the Scholarly Kitchen last year).

Related to this – the second most popular question I get asked at conferences is if the score is just the total number of mentions of an article (the most popular question is about whether we only track DOI links). It’s not 😞

So we’re announcing two things today. The first is that the donut style embeds now all have the option to hide the score – just set the data-no-score attribute to “true”

Donut style badge, Altmetric ID, no score shown
This is an Altmetric ID.

The API documentation has been updated with an example.

... when users click on a donut without a score they’ll see a details page that de-emphasises it too. We’ve kept the score tab so you can still put the level of attention in context:
New Challenges- Beyond DOIs and Articles

• Unique repository content e.g. theses
• Research Data (e.g. DataCite)
• Further Explorer reporting/integration
• ORCID
A semi-synthetic organism with an expanded genetic alphabet
Nature

The Lancet (British Edition)

Simulations suggest Universe could be a hologram
Nature

Marine Ice Sheet Collapse Potentially Underway for the Thwaites Glacier Basin, West Antarctica
Science

Vaccines are not associated with autism: An evidence-based meta-analysis of case-control and cohort studies
Vaccine

Late Pleistocene Human Skeleton and mtDNA Link Paleoamericans and Modern Native Americans
Science

Properties of galaxies reproduced by a hydrodynamic simulation
Nature

A photon-photon collider in a vacuum hohlraum
Nature Photonics

Resveratrol Levels and All-Cause Mortality in Older Community-Dwelling Adults
JAMA Internal Medicine

Large-scale psychological differences within China explained by rice versus wheat agriculture.
Science

The biodiversity of species and their rates of extinction, distribution, and protection
Science

A draft map of the human proteome
Nature

Increasing CO2 threatens human health and leads to the development of drug resistance
The Lancet (British Edition)

Female hurricanes are deadlier than male hurricanes
Proceedings of the National Academy of Sciences of the United States of America

Induction of self awareness in dreams through frontal low current stimulation of gamma activity
Nature Neuroscience

First life with 'alien' DNA
Nature

Widespread, rapid grounding line retreat of Pine Island, Thwaites, Smith and Kohler glaciers, West Antarctica from 1992 to 2011.
Geophysical Research Letters

Increased ice losses from Antarctica detected by CryoSat-2
Geophysical Research Letters

Policy: An intergovernmental panel on antimicrobial resistance
Nature


DISTINGUISH YOURSELF IN THREE EASY STEPS

ORCID provides a persistent digital identifier that distinguishes you from every other researcher and, through integration in key research workflows such as manuscript and grant submission, supports automated linkages between you and your professional activities ensuring that your work is recognized. Find out more.

1. REGISTER
   Get your unique ORCID identifier Register now!
   Registration takes 30 seconds.

2. ADD YOUR INFO
   Enhance your ORCID record with your professional information and link to your other identifiers (such as Scopus or ResearcherID or LinkedIn).

3. USE YOUR ORCID ID
   Include your ORCID identifier on your Webpage, when you submit publications, apply for grants, and in any research workflow to ensure you get credit for your work.
Altmetrics: Take the plunge…
Find out More

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• Enlighten
• Altmetric EPrints Bazaar plug-in