ImpactStory.

Open altmetrics for the next scholarly communications ecosystem
What’s publishing look like in ten years?

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<th>The Letter</th>
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What’s publishing look like in ten years?

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<td>filters</td>
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Online journals are paper journals delivered by faster horses.
Scholars make data

Dataset

When using this data, please cite the original article:


Additionally, please cite the Dryad data package:

Reader SM, Hager Y, Laland KN (2011) \textit{Fitness costs of parental care}.
Dryad Digital Repository, doi:10.5061/dryad.t0q4

Effect of i.t. administration of PD98059 on ERK phosphorylation in Vc neurons and nocifensive behavior.

A. Vehicle
B. PD98059
C. Histogram of ERK phosphorylation levels in Vc neurons.
D. Western blot analysis of ERK phosphorylation.
E. Quantification of ERK phosphorylation levels.
F. Number of activated ERK in Vc neurons.

Published on 23 Feb 2013 - 12:41 (UTC)
Figshare is a service of PLOS.

Categories
- Neuroscience

Authors
- Naoki Suzuki
- Yoshiko Tashiro
- Masayuki Ishii
- Kazuki Shibata
- Kunio Ikeda
- Ayako Kagey
- Masakazu Kiyomoto
- Tetsu J. Gessa

This data is part of a published article:

\textit{Effect of i.t. administration of PD98059 on ERK phosphorylation in Vc neurons and nocifensive behavior.}

Dryad Digital Repository, doi:10.5061/dryad.t0q4

Keywords
- Social learning, behavior
- Parental care
- Fitness costs
Scholars make analyses

Quantifying the Detection of Early Warning Signals

This package contains the source code, analysis, and history of my research published in the Proceedings of the Royal Society Interface, *Limits to the Detection of Early Warning Signals for Critical Transitions* with Alan Hastings, May 2012. A preprint under CC-by license is freely available from my website

- Author: Carl Boettiger
- License: CC0
- Project navigation
Scholars make stories

*fiction*: short story, novella, novel, series, play, film, comic book, etc, etc...

*scholarship*: paper, monograph, video, blog posts, notebooks, infographics, slides, etc, etc
Scholars make conversations

mathoverflow Questions Tags Users Badges Unanswered

How many proofs that $\pi_n(S^n) = \mathbb{Z}$ are there?

Offhand I can think of two ways in classical homotopy theory:

1. Show that $\pi_k(S^n) = 0$ for $k < n$ by deforming a map $S^k \to S^n$ to be non-surjective, then contracting it away from a point not in its image. Now use the Hurewicz theorem to show $\pi_n(S^n) = H_n(S^n) = \mathbb{Z}$, which is easy to calculate with cellular homology.

2. Use the Freudenthal suspension theorem to induct up from $\pi_1(S^1) = \mathbb{Z}$, which you can prove using (say) the universal covering space $\mathbb{R} \to S^1$.

What other ways are there to prove $\pi_n(S^n) = \mathbb{Z}$?

at:algebraic-topology homotopy-theory big-list

flag | cite edited Feb 8 at 8:53 community wiki

Ricardo Andrade

3. this should be community wiki – Koushik Feb 8 at 0:43

A very silly option is: run an algorithm which given a simplicial decomposition of the sphere gives you the group. As algorithm exist, this is in principle viable :-( – Mariano Suárez-Álvarez Feb 8 at 2:39

4. Am I allowed to say "countably many"? ;-) – Andrej Bauer Feb 8 at 11:31

5. @Tom: Is there a way to generalize that argument to $n > 2$? – Mike Shulman Feb 8 at 16:31

6. The deformation argument in (1) is superfluous. Just calculate $\pi_1$ and $H_*$ from the cell decomposition. Then for simply connected spaces, Hurewicz shows that the minimum $l > 0$ for which $H_l \neq 0$ is the same as the minimum $l > 0$ for which $\pi_l \neq 0$, and that the groups coincide for this $l$. – unknown (google) Feb 9 at 21:53

show 3 more comments
Instead of moving paper products faster, we can publish web-native science.
We can stop “Publishing” and start making public.
Ok, how do we filter all this stuff?
<table>
<thead>
<tr>
<th>scholarly</th>
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<td><strong>discussed</strong></td>
<td>Scholars’ Twitter accounts, blogs</td>
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<td><strong>scholarly</strong></td>
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ImpactStory.

An open-source, nonprofit startup to gather and share altmetrics.

Heather Piwowar
Jason Priem
article

Mega-phylogeny approach for comparative biology: an alternative to supertree and supermatrix approaches

Automated dielectric single cell spectroscopy - temperature dependence of electrorotation

dataset

Data from: Data archiving is a good investment

slides

Taming the Monster: Digital Preservation Planning and Implementation Tools
*Slideshare*

software

5uni-Twitter-study
(2011) Study: how many scholars use Twitter, and how do they use it? *GitHub*

webpage

Lab Notebook – Carl Boettiger
Let’s take a closer look:
Web scale breaks manual curation
The value is in crowdsourced filtering
Time’s Up!

About your speaker:
Name: Jason Priem
Company: ImpactStory
Email: jason@impactstory.org
Social Media: @jasonpriem