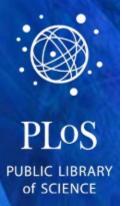


Re-engineering the functions of journals

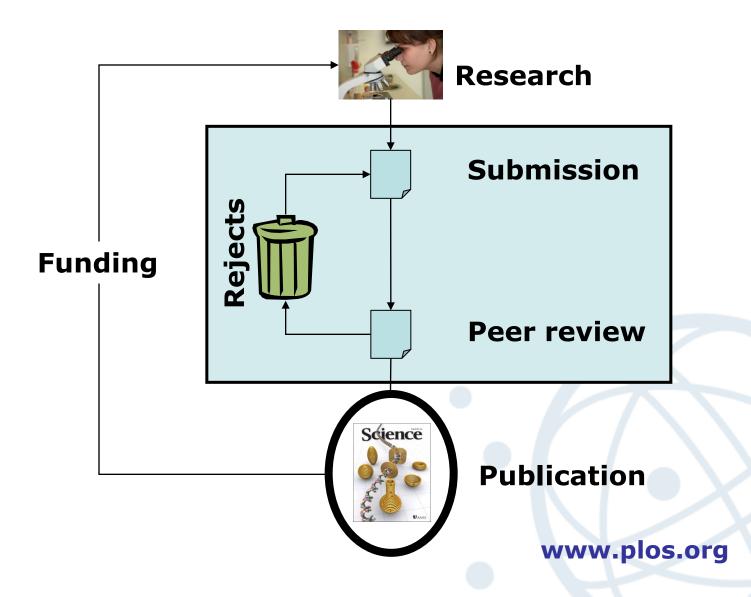
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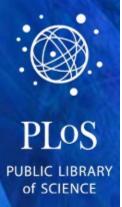
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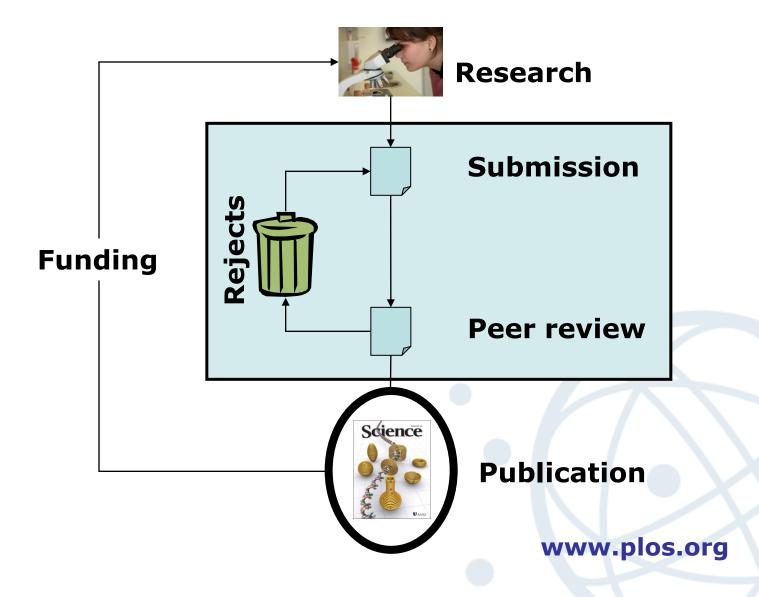


Research communication (print)





Research communication (online)





Functions to be re-engineered

- Dissemination
 - Open access
 - Growth and progress
- Organization of content
 - Decoupling technical and impact assessment



Re-engineering dissemination

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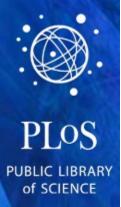
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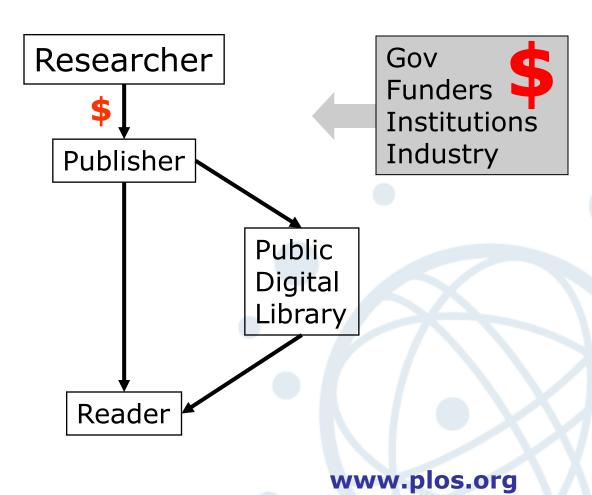
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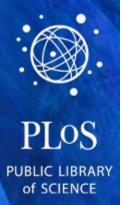
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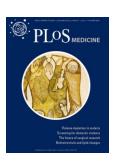


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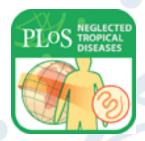
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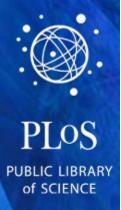


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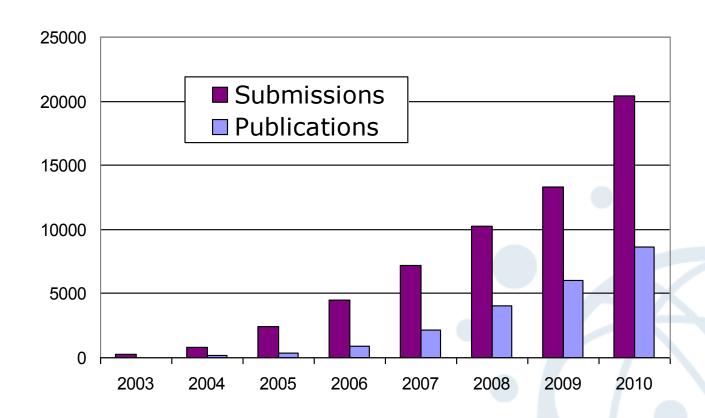
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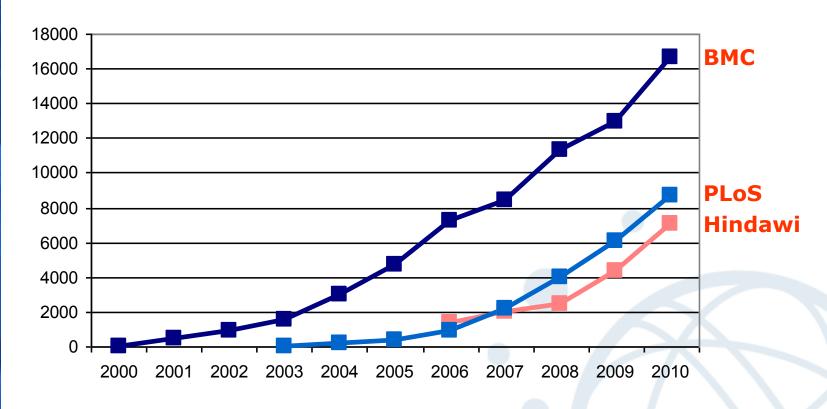


Growth in submissions and publications





Growth in three OA publishers



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RESEARCH ARTICLE



The Development of Open Access Journal Publishing from 1993 to 2009

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Mikael Laakso^{1*}, Patrik Welling¹, Helena Bukvova², Linus Nyman¹, Bo-Christer Björk¹, Turid Hedlund¹

1 HANKEN School of Economics, Helsinki, Finland, 2 Technische Universität Dresden, Dresden, Germany

Abstract Top

Open Access (OA) is a model for publishing scholarly peer reviewed journals, made possible by the Internet. The full text of OA journals and articles can be freely read, as the publishing is funded through means other than subscriptions. Empirical research concerning the quantitative development of OA publishing has so far consisted of scattered individual studies providing brief snapshots, using varying methods and data

sources. This study adopts a systematic method for studying the development of OA journals from their beginnings in the early 1990s until 2009. Because no comprehensive index of OA articles exists, systematic manual data collection from journal web sites was conducted based on journal-level data extracted from the Directory of Open Access Journals (DOAJ). Due to the high number of journals registered in the DOAJ, almost 5000 at the time of the study, stratified random sampling was used. A separate sample of verified early pioneer OA journals was also studied. The results show a very rapid growth of OA publishing during the period 1993–2009.

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Materials and Methods

<u>Results</u>

<u>Discussion</u>

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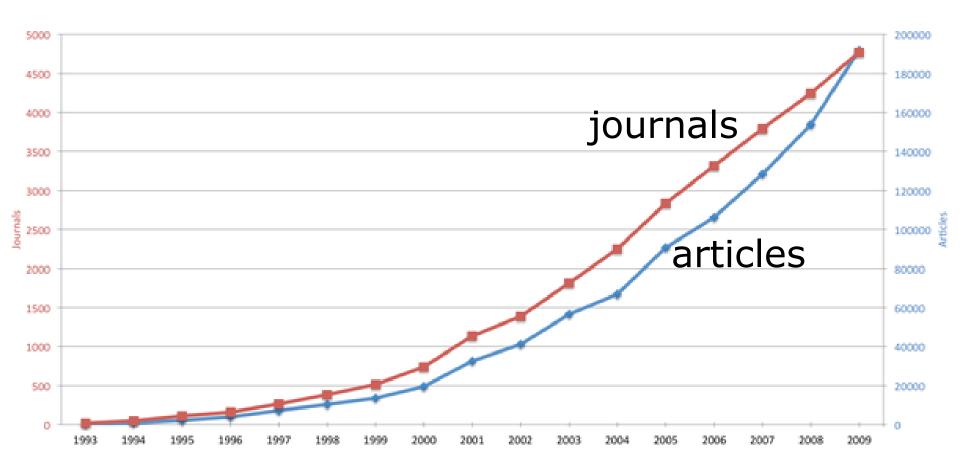
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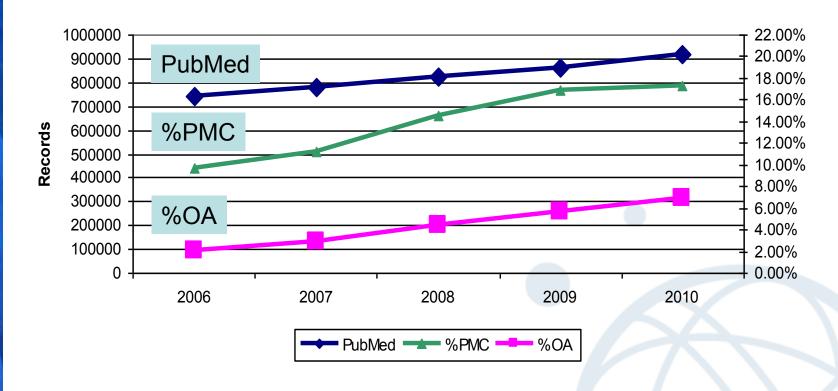


In 2009, 7.7% of all peer-reviewed articles were gold OA

Laakso M, et al. (2011) The Development of Open Access Journal Publishing from 1993 to 2009. PLoS ONE 6(6): e20961. doi:10.1371/journal.pone.0020961



Growth in OA at PMC



7% of PubMed is present within the OA subset of PMC



Open Access Scholarly Publishers Association

About OASPA

Conference

Membership

Information Resources



Welcome to the Open Access Scholarly Publishers Association, OASPA.

OASPA offers a forum for bringing together the entire community of Open Access journal publishers.

Our mission is to represent the interests of Open Access (OA) journal and book publishers globally in all scientific, technical and scholarly disciplines. This mission will be carried out through exchanging information, setting standards, advancing models, advocacy, education, and the promotion of innovation.

Through a shared interest in developing appropriate business models, tools and standards to support OA publishing, we can ensure a prosperous and sustainable future to the benefit of our members and the scholarly communities they serve. OASPA would like to thank SPARC Europe for its support during our initial phase of operation.

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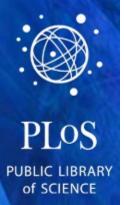
Announcements

The 3rd Conference on Open Access Scholarly Publishing is now open for registration!

The 2nd Conference for Open Access Scholarly Publishers (COASP), was held at the President Hotel, Prague, Czech Republic 22-24 August 2010. You can view the conference sessions at:

http://river-valley.tv/conferences/oaspa-2010/

OASPA Open Access Week WEBINAR: Live Q&A Session with Five OA Publishers - we hope those of you who were able the attend the live WEBINAR enjoyed it. For those of you who were unable to attend, a copy of the WEBINAR is now available on line in a Flash format.



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RESEARCH ARTICLE



Complete Primate Skeleton from the Middle Eocene of Messel in Germany: Morphology and Paleobiology

Article

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Jens L. Franzen $\frac{1}{2}$, Philip D. Gingerich $\frac{3}{2}$, Jörg Habersetzer $\frac{1}{2}$, Jørn H. Hurum^{4*}, Wighart von Koenigswald⁵, B. Holly Smith⁶

1 Forschungsinstitut Senckenberg, Frankfurt, Germany, 2 Naturhistorisches Museum Basel, Basel, Switzerland, 3 Museum of Paleontology and Department of Geological Sciences, University of Michigan, Ann Arbor, Michigan, United States of America, 4 Natural History Museum, University of Oslo, Oslo, Norway, 5 Steinmann-Institut für Geologie, Mineralogie und Paläontologie, Universität Bonn, Bonn, Germany, 6 Museum of Anthropology, University of Michigan, Ann Arbor, Michigan, United States of America

Abstract Top

Background

The best European locality for complete Eocene mammal skeletons is Grube Messel, near Darmstadt, Germany. Although the site was

surrounded by a para-tropical rain forest in the Eocene, primates are remarkably rare there, and only eight fragmentary specimens were known until now. Messel has now yielded a full primate skeleton. The specimen has an unusual history: it was privately collected and sold in two parts, with only the lesser part previously known. The second part, which has just come to light, shows the skeleton to be

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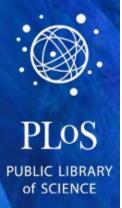
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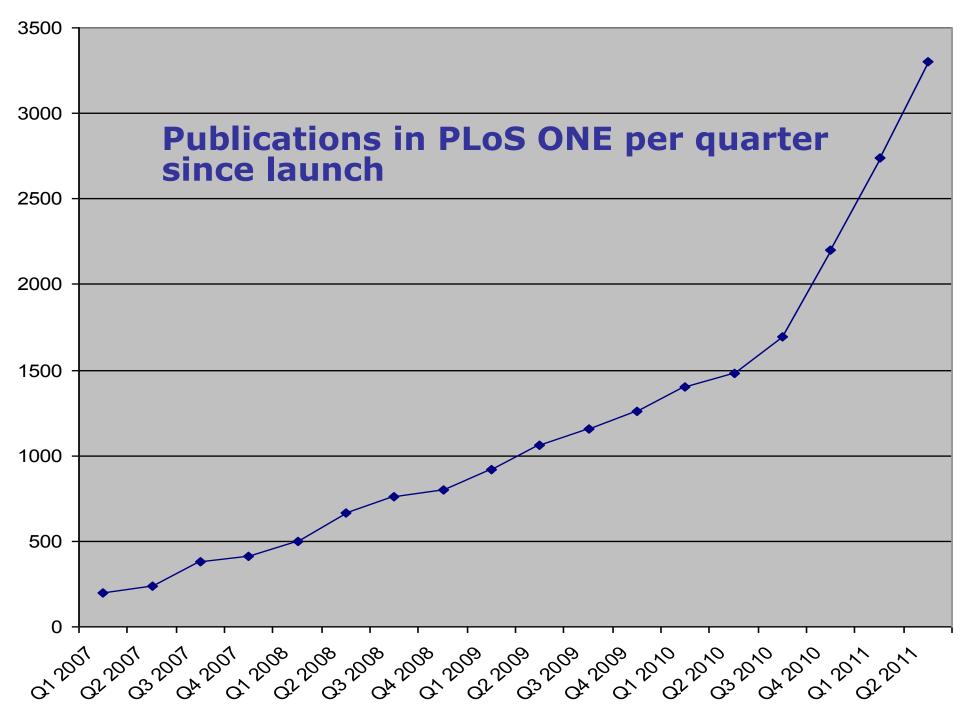
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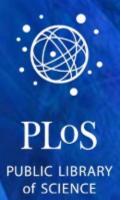


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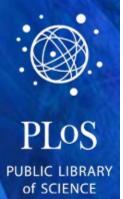
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*Projections

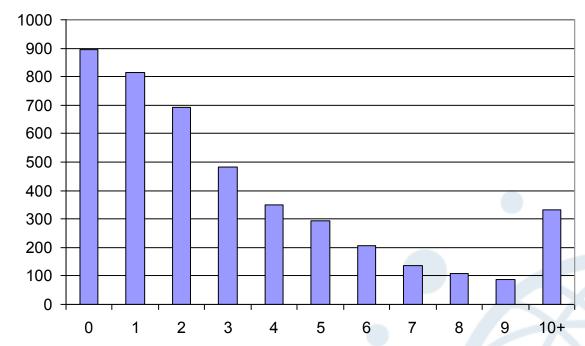
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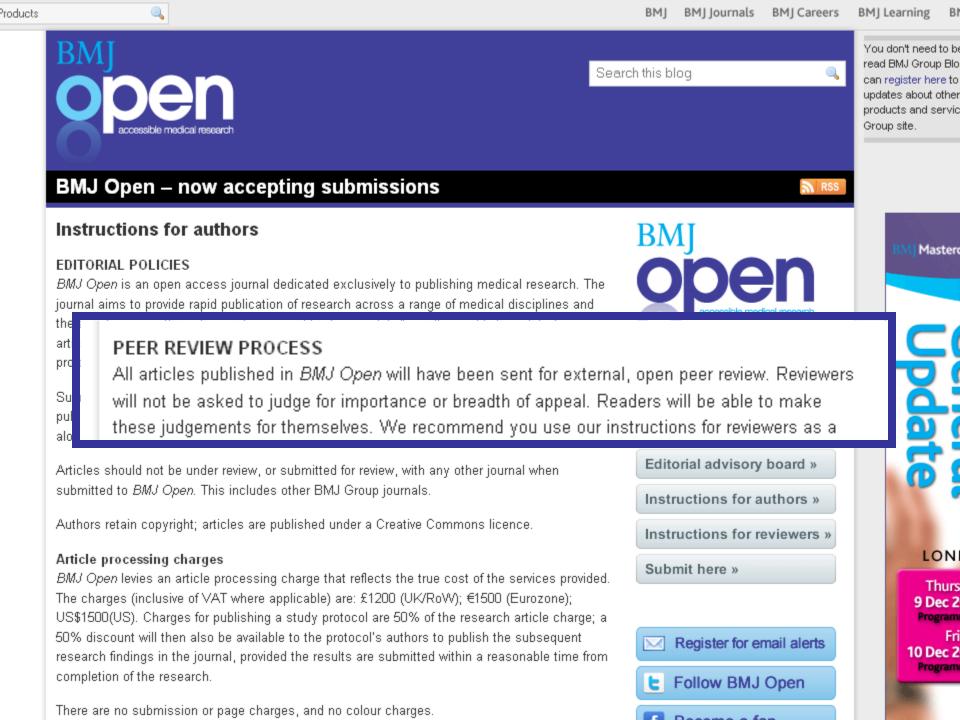


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SAGE launches new open access publication for the Social Sciences SAGE Open to launch Spring 2011

Los Angeles CA (November 17, 2010) - SAGE, the world's leading independent academic and professional publisher today announced the launch of **SAGE Open**: a new publication to support open access publishing in the social and behavioral sciences and the humanities.

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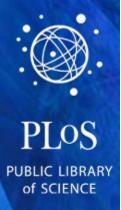
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Features of "OA Megajournals"

- Open Access
- Peer-reviewed for rigour not "impact"
- Post-publication mechanisms (eg metrics)
- Supported by publication fees
- Built on a strong brand
- Scalable, and can become very large

100 OA megajournals could account for 50% of the literature in 5 years



Organizing content after publication

Part 1 - impact





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Alexander Maye $\frac{1}{1}$, Chih-hao Hsieh $\frac{2}{1}$, George Sugihara $\frac{2}{1}$, Björn Brembs $\frac{3}{1}$

1 Universitätsklinikum Hamburg-Eppendorf, Zentrum für Experimentelle Medizin, Institut für Neurophysiologie und Pathophysiologie, Hamburg, Germany, 2 Scripps Institution of Oceanography, University of California San Diego, La Jolla, California, United States of America, 3 Freie Universität Berlin, Institut für Biologie-Neurobiologie, Berlin, Germany

Abstract Top

Brains are usually described as input/output systems: they transform sensory input into motor output. However, the motor output of brains (behavior) is notoriously variable, even under identical sensory conditions. The question of whether this behavioral variability merely reflects residual deviations due to extrinsic random noise in such otherwise deterministic systems or an intrinsic,

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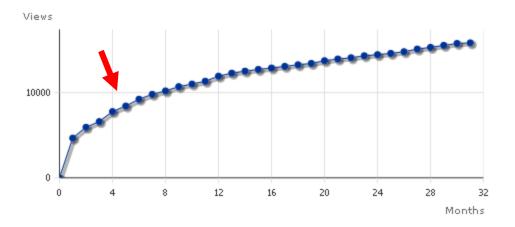
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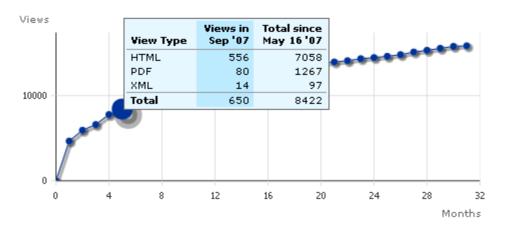
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PLoS ONE, Vol. 4, No. 3. (11 March 2009), e4803.

▼ Abstract



< <sec> <title>Background</title> Intricate maps of science have been created from citation data to visualize the structure of scientific activity. However, most scientific publications are now accessed online. Scholarly web portals record detailed log data at a scale that exceeds the number of all existing citations combined. Such log data is recorded immediately upon publication and keeps track of the sequences of user requests (clickstreams) that are issued by a variety of users across many different domains. Given these advantages of log datasets over citation data, we investigate whether they can produce high-resolution, more current maps of science. </sec><sec> <title>Methodology</title> Over the course of 2007 and 2008, we collected nearly 1 billion user interactions recorded by the scholarly web portals of some of the most significant publishers, aggregators and institutional consortia. The resulting reference data set covers a significant part of world-wide use of scholarly web portals in 2006, and provides a balanced coverage of the humanities, social sciences, and natural sciences. A journal clickstream model, i.e. a first-order Markov chain, was extracted from the sequences of user interactions in the logs. The clickstream model was validated by comparing it to the Getty Research Institute's Architecture and Art Thesaurus. The resulting model was visualized as a journal network that outlines the relationships between various scientific domains and clarifies the connection of the social sciences and humanities to the natural sciences. </sec><sec> <title>Conclusions</title> Maps of science resulting from large-scale clickstream. data provide a detailed, contemporary view of scientific activity and correct the underrepresentation of the social sciences and humanities that is commonly found in citation data.

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Jason Priem

RESEARCH ARTICLE



A Principal Component Analysis of 39 Scientific Impact Measures

Article

Metrics

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Johan Bollen^{1*}, Herbert Van de Sompel¹, Aric Hagberg^{2*}, Ryan Chute^{1*}

1 Digital Library Research and Prototyping Team, Research Library, Los Alamos National Laboratory, Los Alamos, New Mexico, United States of America, 2 Theoretical Division, Mathematical Modeling and Analysis Group, and Center for Nonlinear Studies, Los Alamos National Laboratory, Los Alamos, New Mexico, United States of America

Abstract Top

Background

The impact of scientific publications has traditionally been expressed in terms of citation counts. However, scientific activity

has moved online over the past decade. To better capture scientific impact in the digital era, a variety of new impact measures has been proposed on the basis of social network analysis and usage log data. Here we investigate how these new measures relate to each other, and how accurately and completely they express scientific impact.

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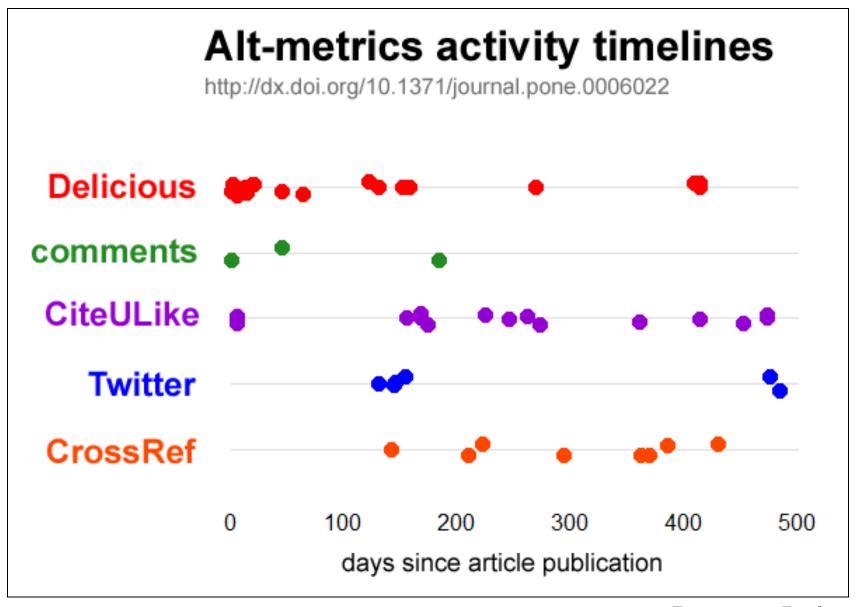
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Jason Priem

PLoS API



PLoS and Mendeley API Contest

Posted on June 17, 2011 | Leave a comment

PLoS and Mendeley, the popular reference manager and academic social network, have teamed up to create a Binary Battle contest to build the best apps using PLoS and/or Mendeley's APIs. There's \$16,000 in prize money to be won and the opportunity to get your app in front of a panel of influential judges from technology, media and science.

The prizes include:

- Grand prize: \$10001 + \$1000 Amazon Web Services credits
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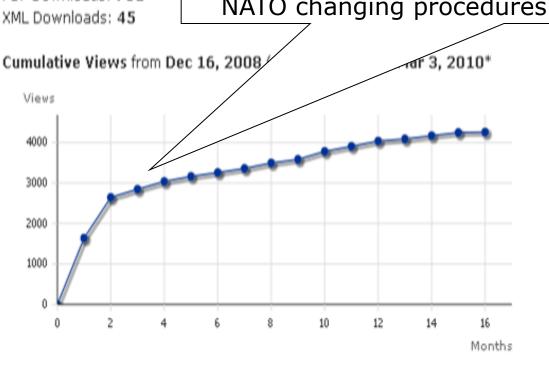




"The Dirty War Index (DWI) method has been adapted for use in NATO military environments to monitor civilian, woman and child casualties. This version of the DWI is called a 'Civilian Battle Damage Assessment Ratio' (CBDAR).

Since October 2009, the CBDAR methodology has been used by NATO forces in Southern Afghanistan in order to reduce the possibility of injuring Afghan civilians. The methodology has identified a number of military activities that historically lead to civilian mortality that has led to NATO changing procedures."

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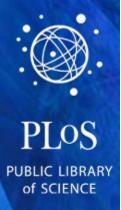
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*Data refer to views from the Plas Medicine Week site and



Next steps for article-level metrics

- More data sources
 - F1000, Mendeley, media coverage, tweets
- Impact that is hard to measure
- Expert analysis and tools
- Broader adoption
 - By publishers
 - By tenure committees, funders etc
- Develop and adhere to standards



Organizing content after publication

Part 2 – community curation

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- Build communities around content

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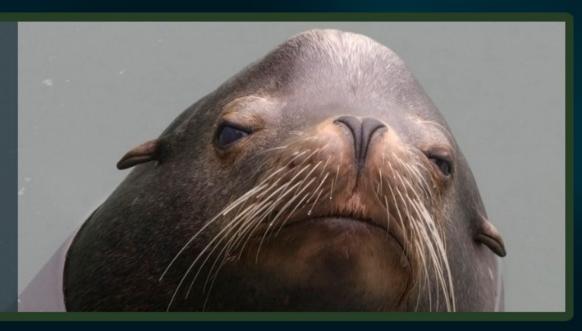
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Today's Feature

Accuracy of ARGOS Locations of Pinnipeds at-Sea Estimated Using Fastloc GPS

How accurate is ARGOS satellite tracking compared to GPS for monitoring the movements and behaviors of marine mammals, such as seals? A study in PLoS ONE has shown that ARGOS – which is much cheaper and easier than GPS – does much better tracking marine mammals that spend more time on the surface, as opposed to those frequently underwater in deep dives.



Recently Added Articles

 A Revision of Malagasy Species of Anochetus Mayr and Odontomachus Latreille (Hymenoptera: Formicidae)

Brian L. Fisher, M. Alex Smith Added 01 Oct 2010

Bringing the Tiger Back from the Brink—The Six Percent Solution

Joe Walston, John G. Robinson, Elizabeth L. Bennett, Urs Breitenmoser, Gustavo A. B. da Fonseca, John Goodrich, Melvin Gumal, Luke Hunter, Arlyne Johnson, K. Ullas Karanth, Nigel Leader-Williams, Kathy MacKinnon, Dale Miquelle, Anak Pattanavibool, Colin Poole, Alan Rabinowitz, James L. D. Smith, Emma J. Stokes, Simon N. Stuart, Chanthavy Vongkhamheng, Hariyo Wibisono

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Systematics within Gyps vultures: a clade at risk
 Jeff A Johnson, Heather RL Lerner, Pamela C Rasmussen, David P Mindell

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David Mindell is curator of birds and dean of science at the California Academy of Sciences in San



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Molecular and Microscopical Investigation of the Microflora Inhabiting a Deteriorated Italian Manuscript Dated from the Thirteenth Century

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Received March 1, 2010; Accepted March 12, 2010.

Abstract Other Sections?

This case study shows the application of nontraditional diagnostic methods to investigate the microbial consortia inhabiting an ancient manuscript. The manuscript was suspected to be biologically deteriorated and SEM observations showed the presence of fungal spores attached to fibers, but classic culturing methods did not succeed in isolating microbial contaminants. Therefore, molecular methods, including PCR, denaturing gradient gel electrophoresis (DGGE), and clone libraries, were used as a sensitive alternative to conventional cultivation techniques. DGGE fingerprints revealed a high biodiversity of both bacteria and fungi inhabiting the manuscript. DNA sequence analysis confirmed the existence of fungi and bacteria in manuscript samples. A number of fungal clones identified on the manuscript showed similarity to fungal species inhabiting dry or saline environments, suggesting that the manuscript environment selects for osmophilic or xerophilic fungal species. Most of the bacterial sequences retrieved



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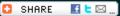
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Curator's Note



I included the Gyps paper because it concerns phylogeny, genetic diversity and species distinctiveness of three

critically endangered vulture species with important ecological roles as scavengers. They have experienced extremely rapid population declines in the past decade, and the analyses presented can help inform conservation practices. The phylogenetic analyses supports recognition of Gyps tenuirostris as a distinctive species, rather than a subspecies, worthy of listing for protection. David Mindell

Species in This Article

- Aegypius monachus
- Gypohierax angolensis
- Gyps bengalensis
- Gyps indicus indicus
- Gyps indicus tenuirostris
- Gyps coprotheres

BMC Evol Biol. 2006; 6: 65.

Published online 2006 August 23. doi: 10.1186/1471-2148-6-65.

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Systematics within Gyps vultures: a clade at risk

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Abstract Other Sections?

Background

Populations of the Oriental White-backed Vulture (Gyps bengalensis) have declined by over 95% within the past decade. This decline is largely due to incidental consumption of the non-steroidal anti-inflammatory veterinary pharmaceutical diclofenac, commonly used to treat domestic livestock. The conservation status of other Gyps vultures in southern Asia is also of immediate concern, given the lack of knowledge regarding status of their populations and the continuing existence of taxonomic uncertainties. In this study, we assess phylogenetic relationships for all recognized species and the majority of subspecies within the genus Gyps. The continuing veterinary use of diclofenac is an unknown but potential risk to related species with similar feeding habits to Gyps



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Aegypius monachus

Taxonomic Hierarchy

Domain : Etkaryota > Kingdom : Animalia > Subkingdom : Etmetazoa > no rank : Bilateria > Superphylum: Deuterostomia > Phylum: Chordata > Subphylum: Vertebrata > Superclass: Tetrapoda > Class: Axes > Order: Falcon Hormes > Family: Accipitable > Genus: Aegyptus













Joachim S. Miller

Miller

Harald Hover

Michael Whall

David Burlon

Joaquim Maceira Muchano

Description

The Cinereous Vulture (Aegrypius monachus) is also known as the Black Vulture, Monk Vulture, or Eurasian Black Vulture, it is a member of the family Accipitation, which also includes many other diurnal raptors such as littles, buzzards and harriers. This bird is an Old World withre, and is only distantly related to the New World withres, which are in a separate tamily. Cathartidae, of the order Ciconliformes, it is the refore not directly related to the American Black Vulture despite the similar name and coloration, it breeds across southern Europe and Asia from Spain to Forea, but is endangered throughout its European range. It is resident except in those parts of its range where hard whiters cause limited movement. The Chiereous Vulture is perhaps the largest of the birds of prey in the world, though nearly equalled by the Himalayan Griffon Vulture. The Andean Condor, slightly larger, is now generally considered unrelated to the true Falconflormes. This hage bird is 98-120 cm (39-47 h) long with a 270-310 cm (99-119 h) wingspan and a weight of 7-14 kg (15.5-31 bs), and is thus one of the world's heaviest flying birds. It breeds in high mountains and large forests, resting in ...

Read the entire article on Wikipedia: http://en.wikipedia.org/wiki/Index.htm?ourki=201635

Gene Sequences

NCBI Taxonomy ID: 8959

Speci mens

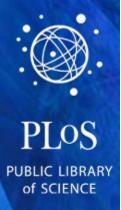


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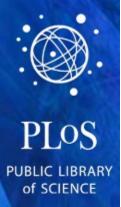
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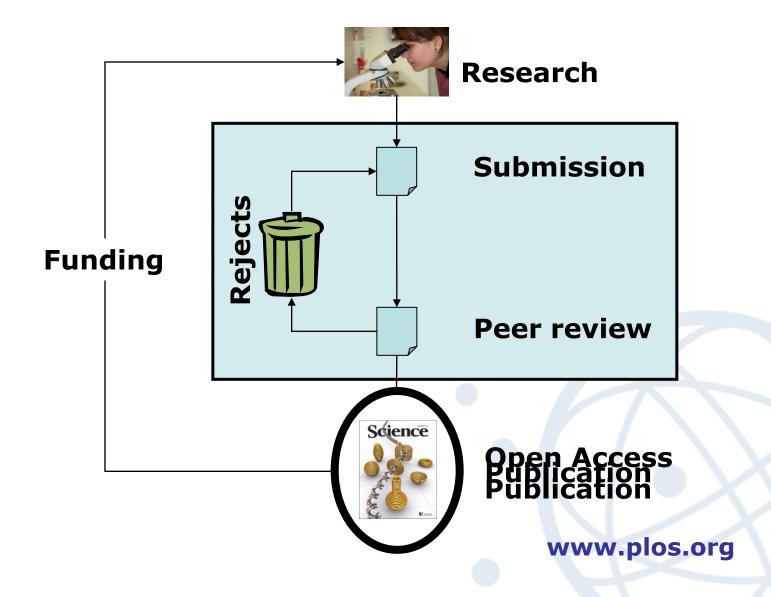


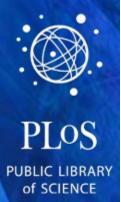
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- Enhance and automate content enrichment
- Develop Hubs community
 - allow users to 'follow' a curator
- Extend literature sources beyond PMC
 - ideally to non-OA content
- Extend Hubs concept to other disciplines
- Make Hubs easy to replicate

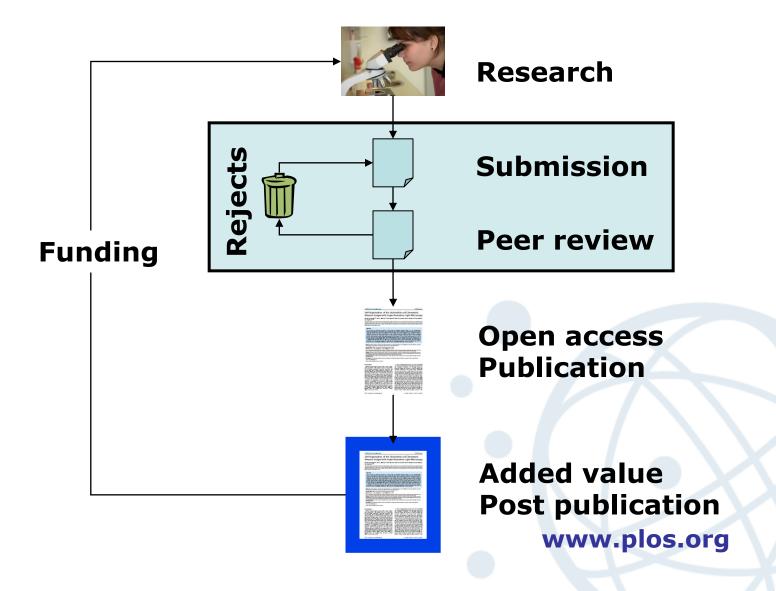


Research communication (online)





New models of research communication





Some implications

- More rapid communication
- Acceleration towards OA
- Consolidation into fewer 'journals'
- Article-level research assessment
- Post-publication content enhancement

Change is inevitable