

Torino, Aula Magna dell'Università, 24 ottobre 2012



OCTOBER 22 - 28, 2012 | EVERYWHERE

Set the Default to **OPEN ACCESS.**

Oltre le riviste. Come cambia la comunicazione scientifica

Elena Giglia

Università di Torino

Gruppo di Progetto “Open Access in Ateneo”

elena.giglia@unito.it

Di cosa parliamo oggi



Open Access

Comunicazione scientifica
Nuove funzioni

Nuove riviste
Web
Nuovi contenuti

Disgregazione/riaggregazione

Nanopublications

Enhanced publications

Altmetrics

Workflows online

Web, Open Access e comunicazione scientifica / 1



Our world is changing fast.
Twenty years ago few had heard of
the Internet.

Today, it's used by
2 to 3 billion worldwide;
it's a trillion-euro marketplace;
it's the platform for innovation
transforming every sector from
healthcare to transport.

These days,
it's hard to predict how the
world will look in a few
months, let alone years:
there's so much **potential**
in the path ahead.

Those changes
are thanks to research
and innovation;
in new technologies,
new products,
new business models.

But **those changes** also
**enable a new kind of research and
innovation: open, agile and collaborative.**

Innovation using new forums
like online collective platforms;
new resources like open data;
new techniques like data-mining.

Web, Open Access e comunicazione scientifica / 2



Meanwhile, **Open Access is growing**: today representing well over 7 500 Journals, and 20% of scientific articles.

But that is slow growth. **It is not enough.**

We can't accept that, by and large, the results of publicly supported research are not yet available to the public.



Web, Open Access e comunicazione scientifica / 3



In every sector of our economy, every corner of our society, the Internet is bringing **huge changes**, and **huge benefits** for end users.



In so many sectors, we are seeing costs cut, **value chains disrupted**, and **business models totally rethought**.

In spite of the importance of science – indeed because of it – this sector should be no different.

Let's show them that this sector, too, **can respond positively**.

Making Open Access a reality for science,
29 maggio 2012

I quattro principî



collaboration

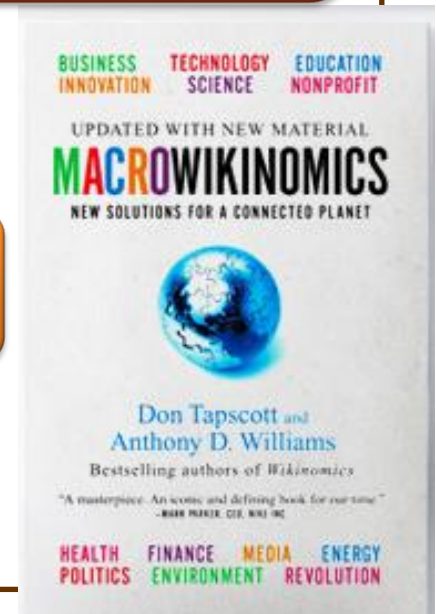
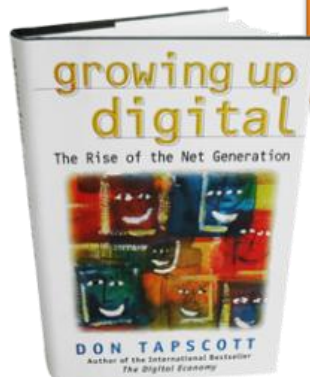
transparency

sharing

empowerment

...age of
networked
intelligence...

...open world
is bringing
freedom...



Disgregazione/riagggregazione



“Articolo” per secoli è stato veicolo della conoscenza scientifica...

...incentivi per chi fa open science

...“articolo” fa parte di un mercato anelastico della conoscenza dove sono in vigore **scarsità artificiale** e **regole decise dall’alto** su cosa sia l’impatto...

J.Wilbanks
The Fragmentation and Re-Integration of Scholarly Communication,
UCLA 2011

...ma, come il mercato della musica, il mercato della conoscenza è soggetto alla stessa **forza disaggregante** di Internet



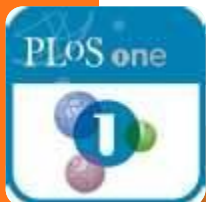
Disgregazione/riagggregazione

...come possiamo ancora parlare di “fascicolo” e “deadline” per la pubblicazione nell’era di Internet?

DISGREGAZIONE:
enhanced publications,
nanopublications, dataset publications;
blog post, tweet...

RIAGGREGAZIONE:
servizi che riaggregano contenuto (anche on demand); progetti come Science Commons; Hubs come PLoS Biodiversity

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and patient insights to science in
Rapid Learning Communities

“Cancer Commons puts the patient at the front end of a remarkable experiment in translational medicine — one in which basic molecular biology, computational methods and a network of experts and institutions collaborate to work out personalized medical solutions.”

Founder Marty Tenenbaum discussing the creation of Cancer Commons (11:28) [Watch Video](#)

PLOS HUBS

Biodiversity

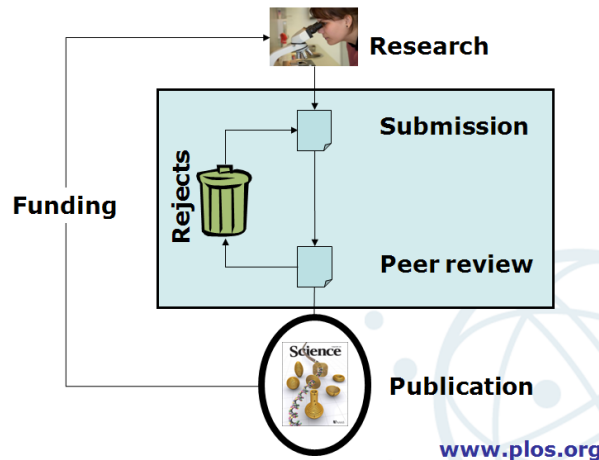
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Do Pronghorns Get Their Horns on Route 66? Controversial Interpretations Revisited and Temporal Patterns of Anthropogenic Mortality

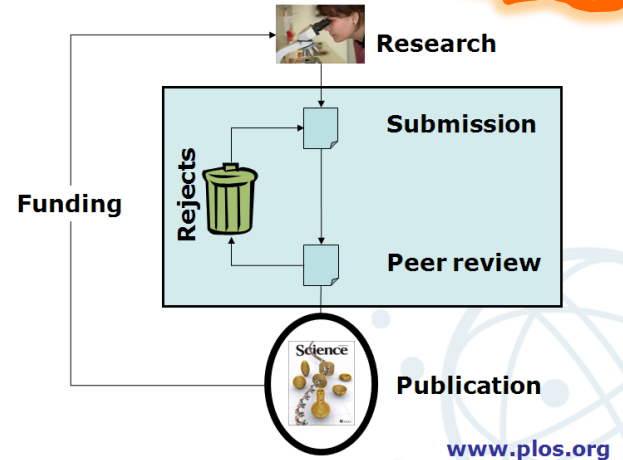


Nuove funzioni

Research communication (print)



Research communication (online)



Quali funzioni
possono essere
ripensate?

DISSEMINAZIONE

Open Access;
rapidità

**ORGANIZZAZIONE DEL
CONTENUTO**

A POSTERIORI:
sul reale impatto

Disseminazione

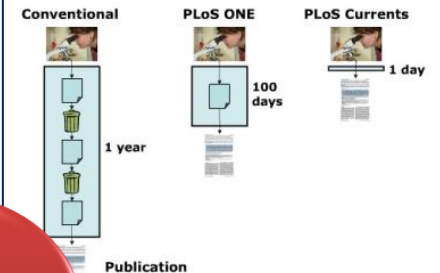


New models of scholarly communication



Rapidità

New models of scholarly communication



Open Access



Text mining

Ri-distribuzione

Immagini

RIUSO

Uso didattico

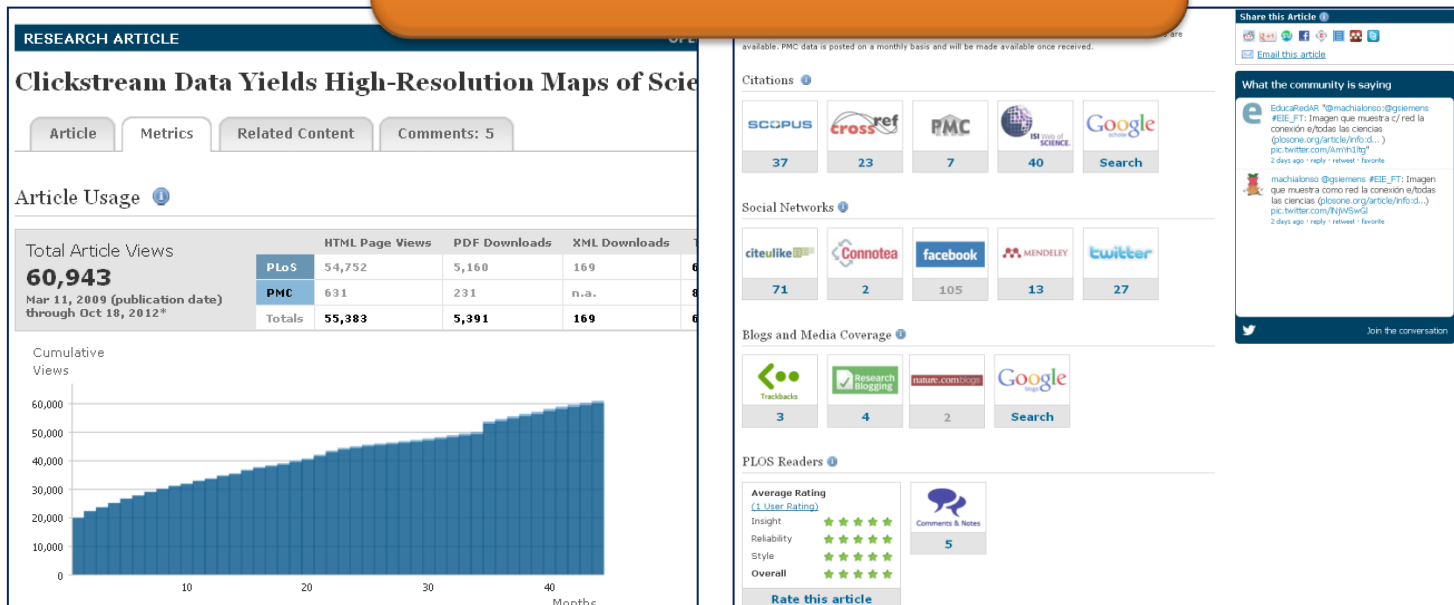
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Disseminazione

...in questo modo si
massimizzano
disseminazione e impatto...



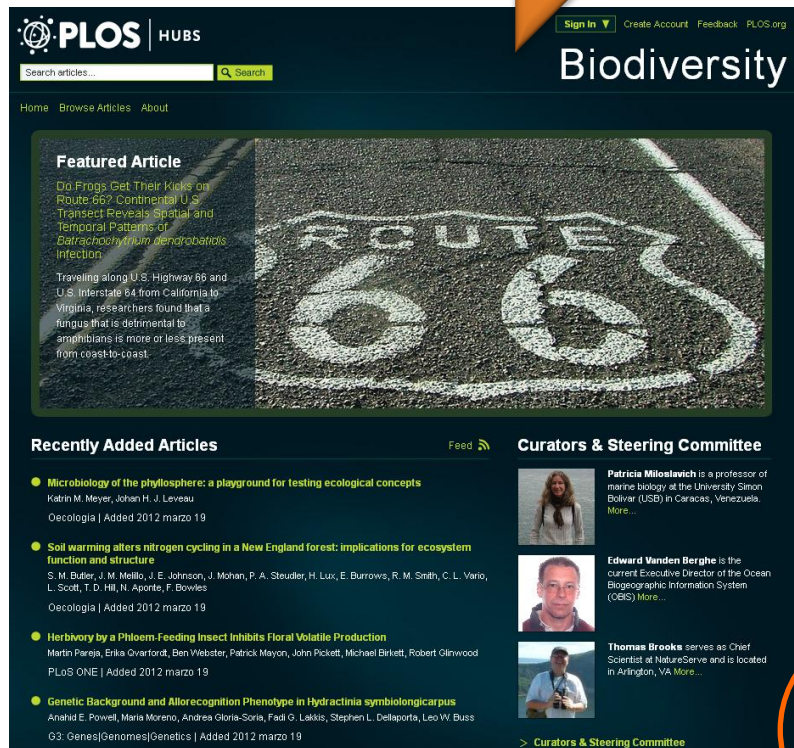
... e si possono misurare
a livello di articolo...



Riagggregazione

...riagggregazione
di contenuti...

... valore aggiunto
post-pubblicazione...



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Featured Article

Do Frogs Get Their Kicks on Route 66? Continental U.S. Transect Reveals Spatial and Temporal Patterns of *Batrachochytrium dendrobatidis* Infection

Traveling along U.S. Highway 66 and U.S. Interstate 64 from California to Virginia, researchers found that a fungus that is detrimental to amphibians is more or less present from coast-to-coast.

Recently Added Articles

- Microbiology of the phyllosphere: a playground for testing ecological concepts**
Rabih M. Meyer, Johan H. J. Leveau
Oecologia | Added 2012 marzo 19
- Soil warming alters nitrogen cycling in a New England forest: implications for ecosystem function and structure**
S. M. Butler, J. M. Nello, J. E. Johnson, J. Mohan, P. A. Steudler, H. Lux, E. Burrows, R. M. Smith, C. L. Vario, L. Scott, T. D. Hill, N. Aporte, F. Bowles
Oecologia | Added 2012 marzo 19
- Herbivory by a Phloem-Feeding Insect Inhibits Floral Volatile Production**
Martin Pareis, Erika Ovarford, Ben Webster, Patrick Mayon, John Pickett, Michael Birkett, Robert Glinwood
PLOS ONE | Added 2012 marzo 19
- Genetic Background and Allerecognition Phenotype in *Hydractinia symbiolongicarpus***
Anahid E. Powell, Maria Moreno, Andrea Gloria-Soria, Fadi G. Lakkis, Stephen L. Dellaporta, Leo W. Buss
G3: Genes|Genomes|Genetics | Added 2012 marzo 19

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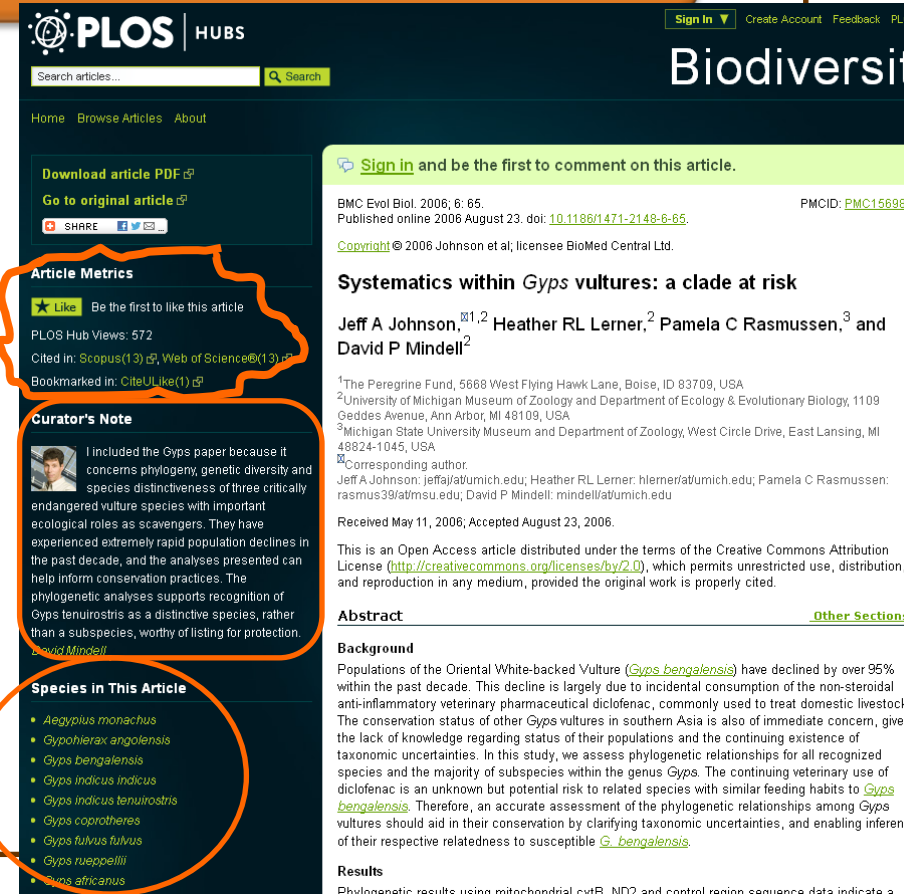
Patricia Milosavljević is a professor of marine biology at the University Simon Bolivar (USB) in Caracas, Venezuela. [More...](#)

Edward Vanden Bergh is the current Executive Director of the Ocean Biogeographic Information System (OBIS) [More...](#)

Thomas Brooks serves as Chief Scientist at NatureServe and is located in Arlington, VA [More...](#)

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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.

Species in This Article

- Aegyptius monachus
- Gyphohierax angolensis
- Gyps bengalensis
- Gyps indicus indicus
- Gyps indicus tenuirostris
- Gyps coprotheres
- Gyps fulvus fulvus
- Gyps rueppellii
- Gyps africanus

Systematics within Gyps vultures: a clade at risk

Jeff A Johnson,^{1,2} Heather RL Lerner,² Pamela C Rasmussen,³ and David P Mindell²

¹The Peregrine Fund, 5668 West Flying Hawk Lane, Boise, ID 83709, USA
²University of Michigan Museum of Zoology and Department of Ecology & Evolutionary Biology, 1109 Geddes Avenue, Ann Arbor, MI 48109, USA
³Michigan State University Museum and Department of Zoology, West Circle Drive, East Lansing, MI 48824-1045, USA

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Abstract

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 bengalensis*. Therefore, an accurate assessment of the phylogenetic relationships among Gyps vultures should aid in their conservation by clarifying taxonomic uncertainties, and enabling inference of their respective relatedness to susceptible *G. bengalensis*.

Results

Phylogenetic results using mitochondrial cytB, ND2 and control region sequence data indicate

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THE JOURNAL

The first aim of the initiative is to launch an open-access journal covering the most outstanding advancements – from basic biological research through to applied, translational, and clinical studies. [Learn more.](#)

eLife is a **researcher-led digital publication** for outstanding work, a platform to **maximise the reach** and influence of new findings and a **showcase for new approaches** for the presentation and assessment of research.



ELIFE LABS

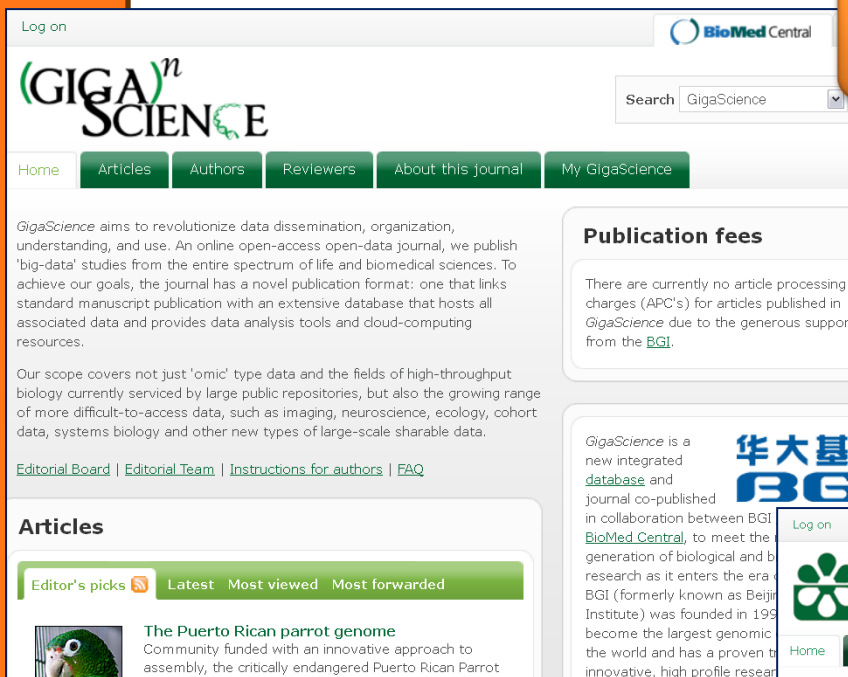
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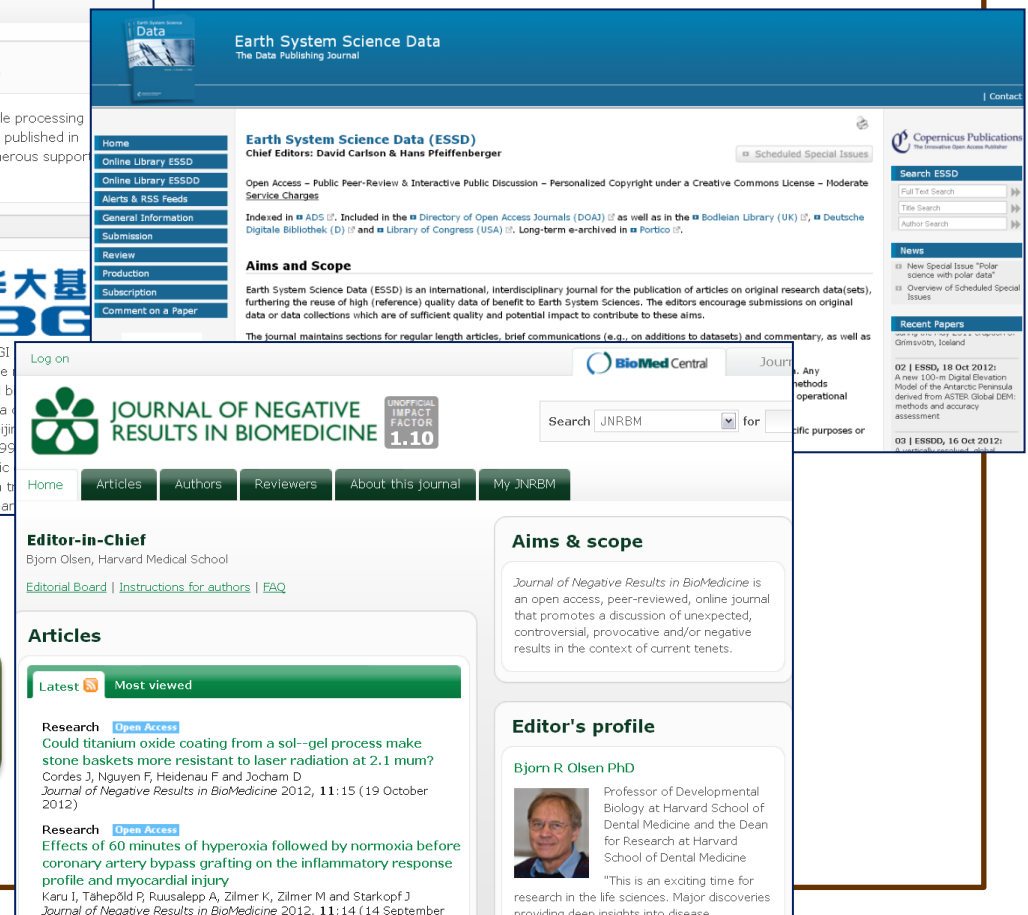
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Aims and Scope

Earth System Science Data (ESSD) is an international, interdisciplinary journal for the publication of articles on original research data(sets), furthering the reuse of high (reference) quality data of benefit to Earth System Sciences. The editors encourage submissions on original data or data collections which are of sufficient quality and potential impact to contribute to these aims.

The journal maintains sections for regular length articles, brief communications (e.g., on additions to datasets) and commentary, as well as

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Cordes J, Nguyen F, Heidenau F and Jocham D
Journal of Negative Results in Biomedicine 2012, 11:15 (19 October 2012)

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Effects of 60 minutes of hyperoxia followed by normoxia before coronary artery bypass grafting on the inflammatory response profile and myocardial injury
Karu I, Taherdoost P, Ruusalepp A, Zilmer K, Zilmer M and Starkopf J
Journal of Negative Results in Biomedicine 2012, 11:14 (14 September 2012)

Aims & scope

Journal of Negative Results in Biomedicine is an open access, peer-reviewed, online journal that promotes a discussion of unexpected, controversial, provocative and/or negative results in the context of current tenets.

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Document



Article

Like my father before me:
intergenerational occupational
status transfer during
industrialization (Zeeland,
1811-1915)

Event



Conference

7th European Social Science
History Conference Lisbon,
Portugal March 2008



Aggregation

Zijdeman, R.L. 2009. Like my father
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Marriage records of the Civil
Register from all municipalities in
the Dutch province of Zeeland in
the period 1811-1915



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Secondary Education, Zeeland,
1860-1915



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Train stations, Zeeland,
1860-1915



<http://purl.utwente.nl/ns/escape-pubtypes.owl#Datafile>

Post Offices, Zeeland, 1803-1918



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Enhanced publications e scienze umane

Semantic WORDS

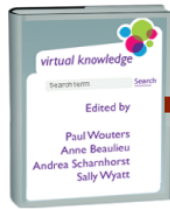
Project site for Enhanced Scholarly Publications using WordPress and the Semantic WORDS

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Enhancing scholarly publications involves presentation in a Web environment with interlinking of the 'objects' of a document such as: data on which the publication is based, supplementary materials, post-publication reactions and secondary analyses. This Website is the central location for an ongoing project of creating, co-locating, and intertextual linking of [Enhanced Publications of traditionally published books](#) related to Digital Scholarship.

Central to this effort is the release of [Semantic WordPress for Digital Scholarship](#), or [Semantic WORDS](#), a pair of custom plugins developed to introduce traditionally published books to the realm of web-based scholarly communication. The four book Web sites developed to launch this project contain a broad range of features intended to enhance the printed versions of these books, including supplementary resources, visualizations, intertextual linking of content, and formal structuring of content using Semantic Web ontologies. In the next phase, this project involves development of a central database that allows for aggregation of content across the individual book Web sites, such that object relationships, discursive threads, and contextual factors can be made explicit.

The first of the Semantic WORDS plugins, [Enhanced Biblioplug](#), provides a suite of features for authors, which are focused on organization and publication of academic content on the Web. Features include custom page templates for academic texts, integration with [Zotero](#) for citation management, and expanded author profile pages for CV content management, such as publications,



e-Research: Transformation in Scholarly Practice

An enhanced publication accompanying the book

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Welcome!

This site is a companion to *e-Research: Transformation in Scholarly Practice* (Routledge, 2009) and includes material both supplementing and expanding what is contained in the book. The site contains background information, new research and resources, visualizations, and opportunity to

Christine L. Borgman

[2011 Harvard Digital Scholarship Summit: Keynote - Christine Borgman \(UCLA\)](#)

Abstract

Several decades ago, access to scholarly information was the exclusive domain of publishers. Now research is disseminated by many formal and informal means, no longer confined to libraries and publishers but also by preprint repositories and tweets. Access may be a result of the transition from a closed scholarly world to the open Web and context of networked information, information services for readers and differences between publications and data. If future scholars are to use the content of yesterday, today, and tomorrow, the scholarly community must reclaim retrieval, rethink partnerships throughout the information life cycle, share responsibility, and address policy and incentive issues.



Related Publications



Borgman, C. (2007). *Scholarship in the Digital Age: Information, Infrastructure and the Internet*. Cambridge, MA: MIT Press.



Hine, C. (2006). *New Infrastructures for Knowledge Production: Understanding E-science*. Hershey, PA: IGI Global.



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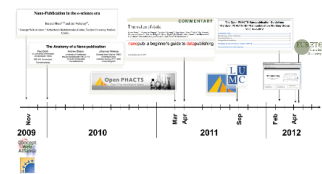
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o4 p5 o5 .

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RESEARCH ARTICLE OPEN

Novel Protein-Protein Interactions Inferred from Literature Context

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Herman H. B. M. van Haagen^{1*}, Peter A. C. 't Hoen¹, Alessandro Botelho Bovo², Antoine de Morrée¹, Erik M. van Mulligen¹, Christine Chichester¹, Jan A. Kors¹, Johan T. den Dunnen¹, Gert-Jan B. van Ommen¹, Silvère M. van der Maarel¹, Vinícius Medina Kern², Barend Mons¹, Martijn J. Schuemie¹

¹ Biosemantics Association, Department of Human Genetics, Leiden University Medical Center, Leiden, and Department of Medical Informatics, Erasmus University, Rotterdam, The Netherlands, ² Department of Human Genetics, Leiden University Medical Center, Leiden, The Netherlands

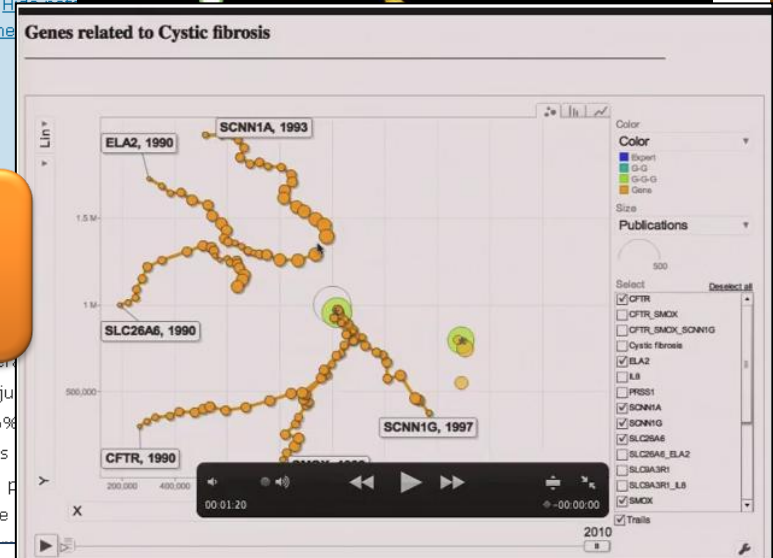
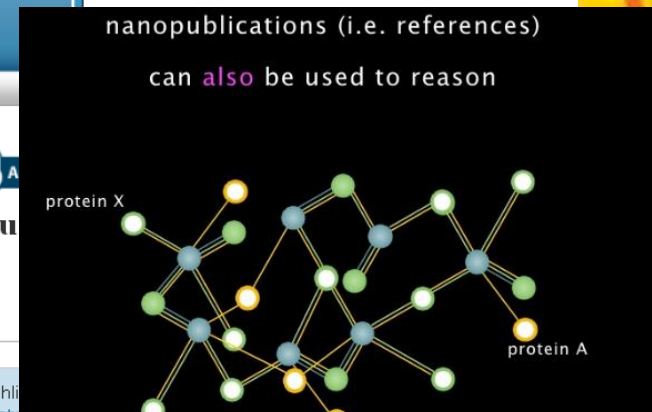
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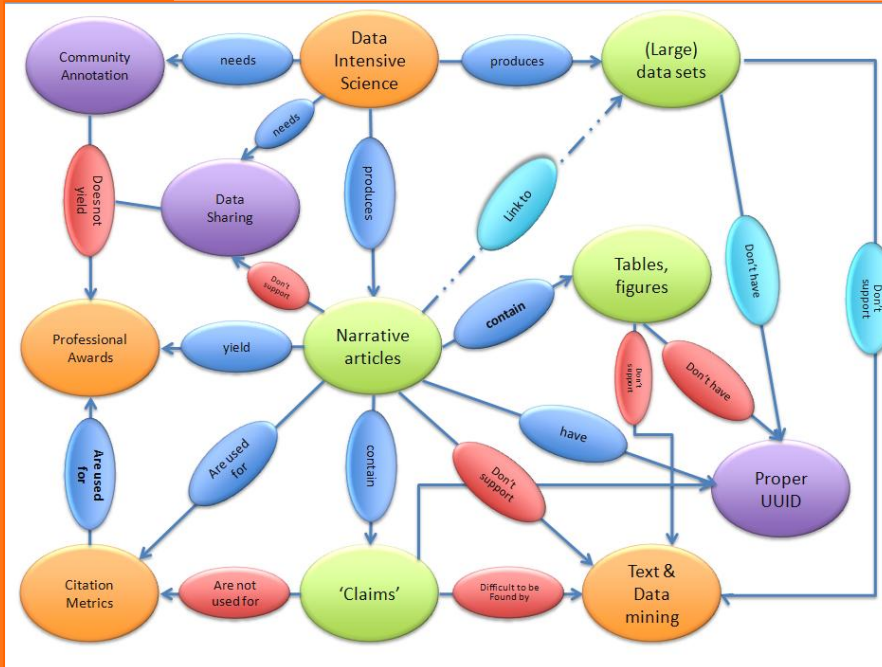
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Interactions (PPIs) based on the similarity of the context in which proteins appear in literature. This method outperforms previously developed PPI prediction algorithms that rely on the conjunction of two protein names in MEDLINE abstracts. We show significant increases in coverage (76% to 93%) and sensitivity (66% versus 41% at a specificity of 95%) for the prediction of PPIs archived in 6 PPI databases. A retrospective analysis shows that PPIs can efficiently be predicted before they enter PPI databases and before their interaction is explicitly described in the literature.

...non riflettono tutte le sfumature
ma indicano una direzione, una
ipotesi, una visione d'insieme



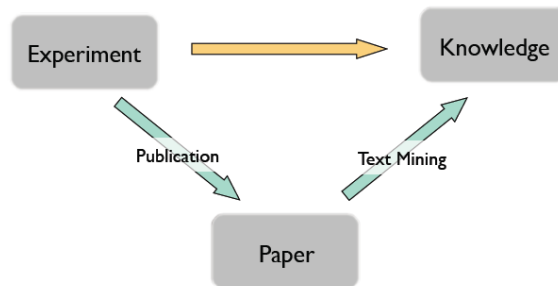
H. van Haagen et al. Novel Protein-Protein Interactions Inferred from Literature Context, 2009

[illegible]

B.Mons, Nanopublications, OAI7, 2011

Workflow online

Knowledge Burying in paper publication



- Publishing/mining cycle results in loss of knowledge
 - $\geq 40\%$ of information lost



...servono strumenti per trasmettere/conservare la “digital knowledge”

S.Bechhofer, Research Objects: Towards Exchange and Reuse of Digital Knowledge, OAI7, 2011

...Research Objects (RO)
sono aggregazioni di risorse
funzionali a un esperimento

my experiment

myExperiment makes it easy to **find**, **use** and **share** scientific workflows and other **Research Objects**, and to build **communities**.



<http://www.myexperiment.org/>

Workflow online

...riconoscere il ruolo centrale dei workflow per la e-research

- **Reusable** – used as part of new study;
- **Repurposeable** – reuse the pieces in a new (and different) study;
- **Repeatable** – repeat the study, possibly years later;
- **Reproducible** – a special case of repeatability with a complete set of information/results to work towards;
- **Replayable** – go back and see what happened;
- **Referenceable** – cite in publications;
- **Revealable** – provenance and audit;
- **Re-interpretable** – crossing boundaries;
- **Respectful** – appropriate credit and attribution;
- **Retrievable** – discover and acquire.

Workflow online



Workflow=
dati+processo



...creazione e gestione di
complessi Research Objects che
tengano conto della **natura
statica/dinamica dei workflows**

...conservazione e classificazione
di workflows e materiale
associato, in modo che sia
ricercabile e accessibile

...communities che condividano,
riusino e migliorino i workflow,
favorendo la **creazione
di nuova conoscenza**



Altmetrics



peer review:
lenta, spesso inefficace

Retraction Watch

Diederik Stapel faces criminal
with 15 comments

The Dutch media are reporting that [Diederik Stapel](#), the Tilburg University social psychologist who fabricated data in dozens of studies, is facing a criminal probe for his misuse of some 2.2 million euros (roughly \$2.8 million US) in government grant funding.

A [Retraction Watch](#) commenter tipped us off this morning that the newspaper *NRC Handelsblad* reports (thanks to Google Translate):

Investigators have last month the financial administration of Stapel will also have several witnesses to

Stapel is suspected of having applied for g Investigators also are exploring whether h is guilty of forgery by using forge



citazione:
considera solo chi scrive

Impact Factor:
facilmente manipolabile

altmetrics

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

... il lavoro dei ricercatori si
è spostato sul Web
dove possiamo:

contare i downloads

ascoltare i tweet

tracciare l'uso...

tutte queste "tracce" sono
ALT-METRICS

Impact


usage

downloads
views


peer-review

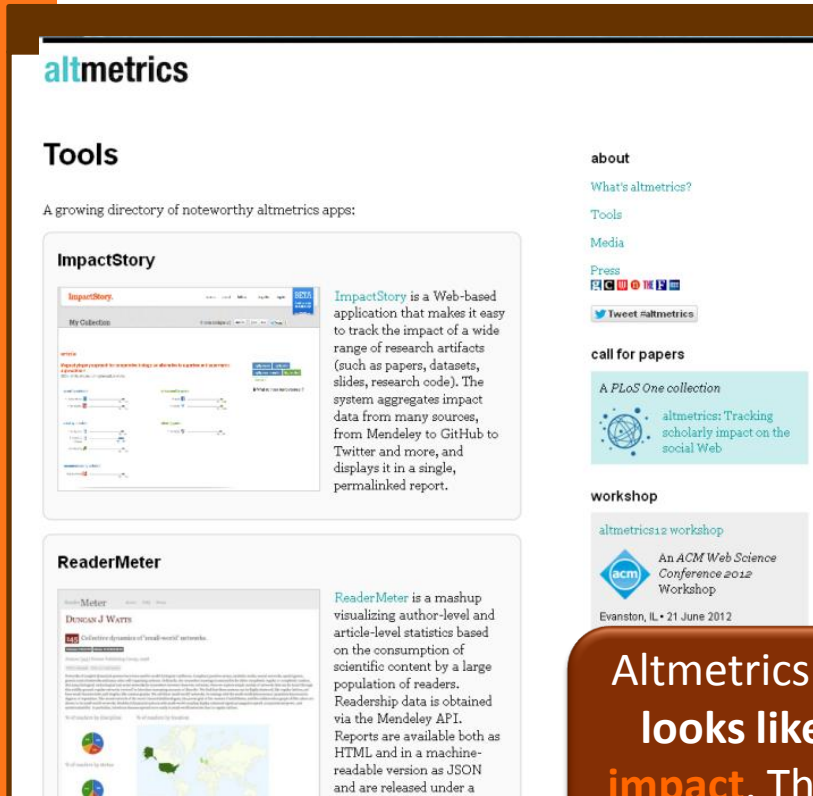
expert opinion


citations


alt-metrics

storage
links
bookmarks
conversations

Altmetrics



The screenshot shows the altmetrics website with the following sections:

- altmetrics** logo
- Tools**
 - A growing directory of noteworthy altmetrics apps:
 - ImpactStory**: A Web-based application that makes it easy to track the impact of a wide range of research artifacts (such as papers, datasets, slides, research code). The system aggregates impact data from many sources, from Mendeley to GitHub to Twitter and more, and displays it in a single, permalinked report.
 - ReaderMeter**: A mashup visualizing author-level and article-level statistics based on the consumption of scientific content by a large population of readers. Readership data is obtained via the Mendeley API. Reports are available both as HTML and in a machine-readable version as JSON and are released under a
- about**
 - What's altmetrics?
 - Tools
 - Media
 - Press
 - Tweet altmetrics
- call for papers**
 - A PLoS One collection
 - altmetrics: Tracking scholarly impact on the social Web
- workshop**
 - altmetrics12 workshop
 - An ACM Web Science Conference 2012 Workshop
 - Evanston, IL • 21 June 2012

permette di tracciare
l'impatto sul
social web

è immediato, più
aderente alla nuova
realtà di e-science

Altmetrics expand our view of what impact
looks like, but also of **what's making the
impact**. This matters because expressions of
scholarship are becoming more diverse.

Because altmetrics are themselves diverse,
they're great for measuring impact
in this **diverse scholarly ecosystem**.

Let's make science open



The best thing about **Internet** is that it's **open**. In every field it let us share and innovate

In science,
**OPENESS IS
ESSENTIAL**

Let's tear down the walls that keep learning sealed off.
And let's make science open.



Let's make science open, giugno 2012

Open science doesn't mean ignoring economic reality.
Of course **we need business models to be sustainable.**

But that doesn't mean we have to carry on doing things the way they have always been done.

So, wherever you sit in the value chain, whether you're a researcher or an investor or a policy maker, my message is clear:
let's invest in collaborative tools that let us progress...



OCTOBER 22 - 28, 2012 | EVERYWHERE

Set the Default to OPEN ACCESS.

Buona Open Access Week!

www.oa.unito.it