Altmetrics 101

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Co-founder, Plum Analytics
August 5, 2014

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Redefining:
How Scholarship is Measured

Current state of

Scholarly Measure

Elastic ice shells of synchronous moons: Implications for cracks on Europa and non-synchronous rotation of Titan

Peter M. Goldreich [a,b], Jonathan L. Mitchell [c,b]

Abstract

A number of synchronous moons are thought to harbor water oceans beneath their outer ice shells. A subsurface ocean frictionally decouples the shell from the interior. This has led to proposals that a weak tidal or atmospheric torque might cause the shell to rotate differentially with respect to the synchronously rotating interior. Applications along these lines have been made to Europa and Titan. However, the shell is coupled to the ocean by an elastic torque. As a result of centrifugal and tidal forces, the ocean would assume an ellipsoidal shape with its long axis aligned toward the parent planet. Any displacement of the shell away from its equilibrium position would induce strains thereby increasing its elastic energy and giving rise to an elastic restoring torque. In the investigation reported on here, the elastic torque is compared with the tidal torque acting on Europa and the atmospheric torque acting on Titan.

References

Anderson, J. D., Schubert, G., Jacobson, R. A., Lau, E. L., Moore, W. B., Sjogren, W. L., Sep. 1998. Europa's Differentiated Internal Structure: Inferences from Four Galileo Encounters. Science 281, 2019.

Greeley, P. E., Greenberg, R., Hoppa, G., Helfenstein, P., McEwen, A., Pappalardo, R., Tufts, R., Ockert-Bell, M., Sullivan, R., Greeley, R., Belton, M. J. S., Denk, T., Clark, B. E., Burns, J., Veverka, J., Jan. 1998. Evidence for non-synchronous rotation of Europa. Nature 391, 368.

Ghatak, A., Mahadevan, L., Nov. 2003. Crack Street: The Cycloidal Wake of a Cylinder Tearing through a Thin Sheet. Physical Review Letters 91 (21), 215507.

Greeley, R., Sullivan, R., Coon, M. D., Geissler, P. E., Tufts, B. R., Head, J. W., Pappalardo, R. T., Moore, J. M., Sep. 1998. Terrestrial Sea Ice Morphology: Considerations for Europa. Icarus 135, 259–66.

Greenberg, R., Hoppa, G. V., Tufts, B. R., Geissler, P., Riley, J., Kadel, S., Oct. 1999. Chaos on Europa. Icarus 141, 263–286.

Greenberg, R., Weidenschilling, S. J., May 1984. How fast do Galilean satellites spin? Icarus 58, 186–196.

Europa's Differentiated Internal Structure: Inferences from Four Galileo Encounters

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Metrics provide a Feedback Loop

fitbit

Weekly Stats

Hi [redacted] here are your weekly stats.

4/07/2014 to 4/13/2014

WEEK'S MOST ACTIVE DAY
Sun, Apr 13

WEEK'S LEAST ACTIVE DAY
Mon, Apr 7

TOTAL STEPS
41,480
DAILY AVERAGE 5,926 steps
BEST DAY 17,939 steps

TOTAL DISTANCE
19.57 miles
DAILY AVERAGE 2.80 miles
BEST DAY 8.66 miles

TOTAL CALS BURNED
17,535
DAILY AVERAGE 2,505 cals
BEST DAY 3,187 cals

WEIGHT CHANGE
0.0 lb
LIGHTEST 200.0 lb
HEAVIEST 200.0 lb

AVG SLEEP DURATION
1 hrs 51 min
AVG TIMES AWAKENED 0
AVG TIME TO FALL ASLEEP --hrs --min

Last week's step winners

1 [redacted] 76,770 steps

2

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Author(s): Jacques Fellay, Dongliang Ge, Kevin V. Shianna, Sara Colombo, Bruno Ledergerber, Elizabeth T. Cirulli, Thomas J. Urban, Kunlin Zhang, Curtis E. Gumbs, Jason P. Smith, Antonella Castagna, Alessandro Cozzi-Lepri, Andrea De Luca, Philippa Easterbrook, Huldrych F. Günthard, Simon Mallal, Cristina Mussini, Judith Dalmau, Javier… + More
Related Groups: University of Pittsburgh / Schools and Programs / Graduate School of Public Health / Infectious Diseases and Microbiology

PLoS genetics, ISSN: 1553-7390, Vol: 5, Issue: 12, Page: e1000791
Publication Year: 2009

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Chemistry in your kitchen

Author(s): Antony **Williams**

2010, Vol: 2, Issue: 5, DOI: 10.1038/nchem.633, 341-341 pages.

Community health nursing provides care alternatives.

Author(s): J **Williams**

1979, Vol: 11, Issue: 6, 17, 19 pages.

Public Chemical Compound Databases

Author(s): Antony **Williams**

2013, DOI: 10.6084/m9.figshare.654769

Improving online chemistry one structure at a time

Author(s): Antony **Williams**

2013, DOI: 10.6084/m9.figshare.663617

ChemSPider - the Free Chemistry Database for the Community

Author(s): Antony **Williams**

2013, DOI: 10.6084/m9.figshare.663641

The Possibilities and Pitfalls of Internet-Based Chemical Data

Author(s): Antony **Williams**

2013, DOI: 10.6084/m9.figshare.663683

Group and Researcher Widgets

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University of Pittsburgh

The University of Pittsburgh's PlumX dashboard displays the research impact of researchers from a cross-section of departments throughout the university. Any contribution to the D-Scholarship Institutional Repository is available in PlumX. These contributions enable the per-institute and per-department views. Additionally metrics about the impact of articles in library published journals are also available.

Researchers

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- Prostaglandin E2 (PGE2) exerts biphasic effects on human tendon stem cells.
- The Library as Publisher
- A social scientific framework for social systems in online video games: Building a better looking for raid loot system in World of Warcraft
- Fiction Criticizing Reality:Abbas Kiarostami and the Cracked Windshield of Cinema
- Borderlands and Border-Crossers: Migrants and Boundaries in the Greater Caribbean, 1840-1940

see details

PLUMX

Michael Pinsky

Professor of Critical Care Medicine, Bioengineering, Anesthesiology, Cardiovascular Diseases, and Clinical & Translational Sciences

Artifact Summary

- Article: 341
- Chapter: 82
- Book: 58
- Other: 14
- Conference Paper: 7
- Letter: 5
- Case: 5
- Report: 2
- Thesis / Dissertation: 1

Recent Artifacts

- Robust model-based quantification of global ventricular torsion from spatially sparse three-dimensional time series data by orthogonal distance regression: evaluation in a canine animal model under different pacing regimes.
- Addressing education debt: student and teacher perceptions of successful teaching of low-income African American students
- Clinical use of respiratory changes in arterial pulse pressure to monitor the hemodynamic effects of PEEP.
- Effects of norepinephrine on the renal vasculature in normal and endotoxemic dogs.
- Informal caregiver burden among survivors of prolonged mechanical ventilation.

see details

AN ELECTROCORTICOGRAPHIC BRAIN INTERFACE IN AN INDIVIDUAL WITH TETRAPLEGIA.

Wang, Wei and **Collinger, Jennifer L.** and **Degenhart, Alan D** and **Tyler-Kabara, Elizabeth C** and **Schwartz, Andrew B** and **Moran, Daniel W** and **Weber, Douglas J** and **Wodlinger, Brian** and **Vinjamuri, Ramana Kumar** and **Ashmore, Robin C** and **Kelly, John W** and **Boninger, Michael L** (2013) *An Electrocorticographic Brain Interface in an Individual with Tetraplegia*. PloS one, 8 (2). e55344. ISSN 1932-6203

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DOI or Unique Handle: 10.1371/journal.pone.0055344

Abstract

Brain-computer interface (BCI) technology aims to help individuals with disability to control assistive devices and reanimate paralyzed limbs. Our study investigated the feasibility of an electrocorticography (ECoG)-based BCI system in an individual with tetraplegia caused by C4 level spinal cord injury. ECoG signals were recorded with a high-density 32-electrode grid over the hand and arm area of the left sensorimotor cortex. The participant was able to voluntarily activate his sensorimotor cortex using attempted movements, with distinct cortical activity patterns for different segments of the upper limb. Using only brain activity, the participant achieved robust control of 3D cursor movement. The ECoG grid was explanted 28 days post-implantation with no adverse effect. This study demonstrates that ECoG signals recorded from the sensorimotor cortex can be used for real-time device control in paralyzed individuals.

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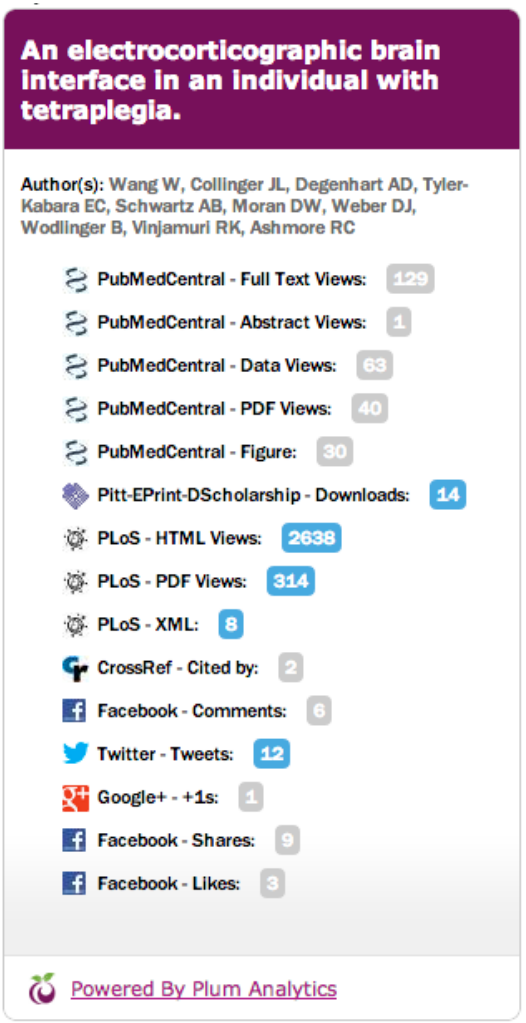

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4-15-2008

DOI
10.1186/1471-2474-9-50

Abstract

Background:

Despite emphasis on patient centred healthcare, healthcare professionals have been slow to use validated measurements of patient satisfaction in physiotherapy practice. The aim of this cross sectional survey was to measure patient satisfaction with private physiotherapy in Ireland, for patients with musculoskeletal pain, using a previously validated survey instrument.

Methods:

A multidimensional patient satisfaction questionnaire 'PTOPS', which assesses

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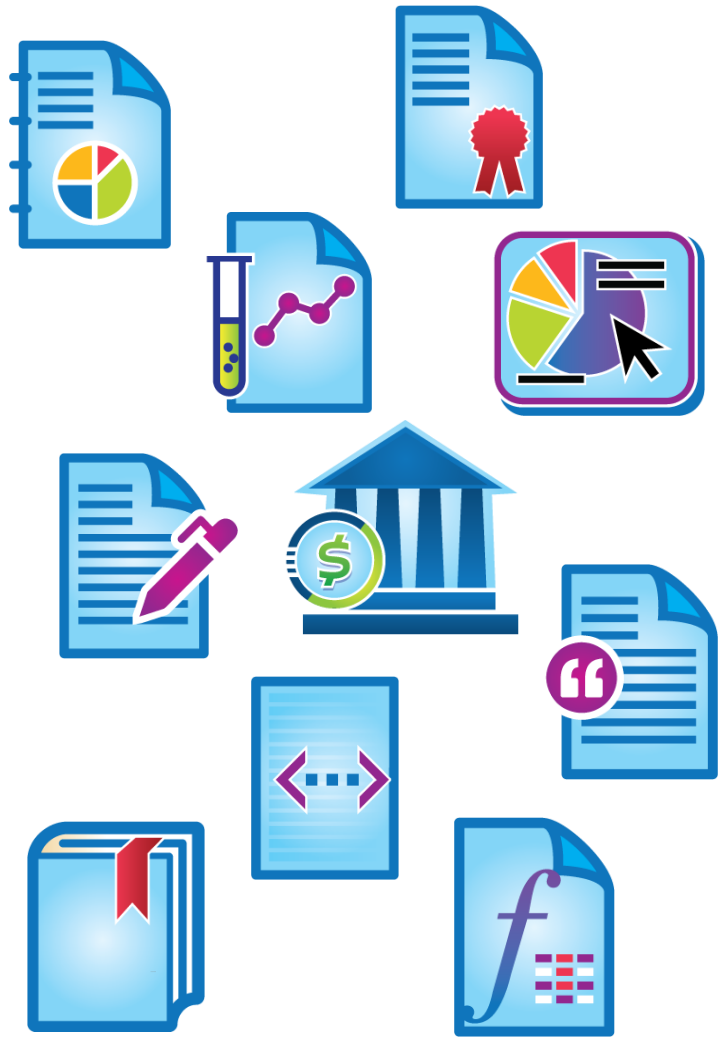

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★★★★★ **Identity By Design**, November 26, 2008

By **D. S. Johnson** (Oklahoma) - See all my reviews

REAL NAME

Amazon Verified Purchase (What's this?)

This review is from: Identity by Design: Tradition, Change, and Celebration in Native Women's Dresses (Hardcover)

One of the best of it's kind that I have seen in 20 years of researching primitive American artifacts. Detailed research, wonderfully clear photography, great descriptions, excellent documentation.

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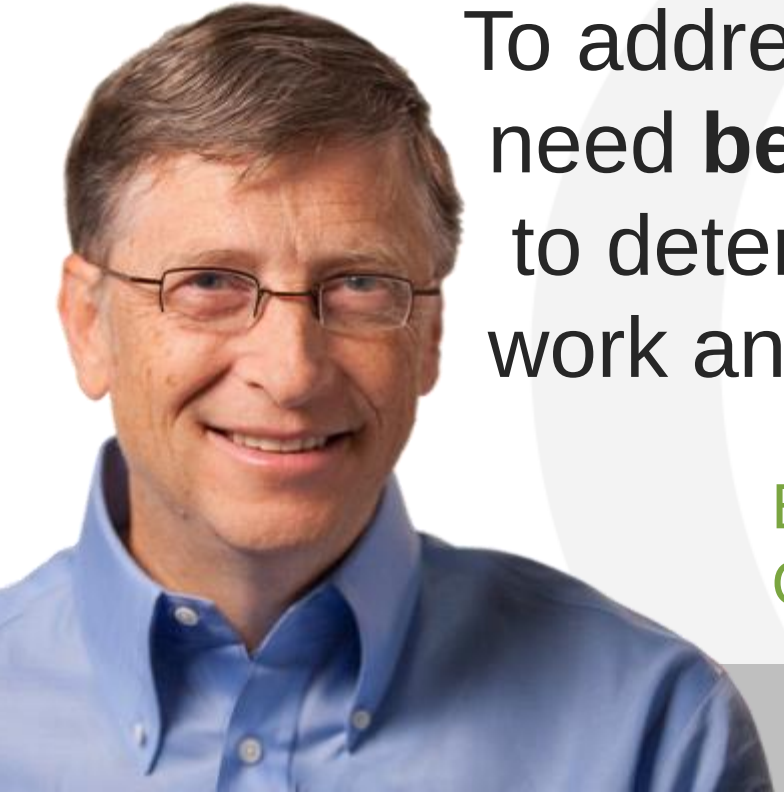

To address these demands, we need **better measurement tools** to determine which approaches work and which do not.”

Bill Gates
Gates Foundation Annual Letter 2013

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17% Success Rate

4 in 5
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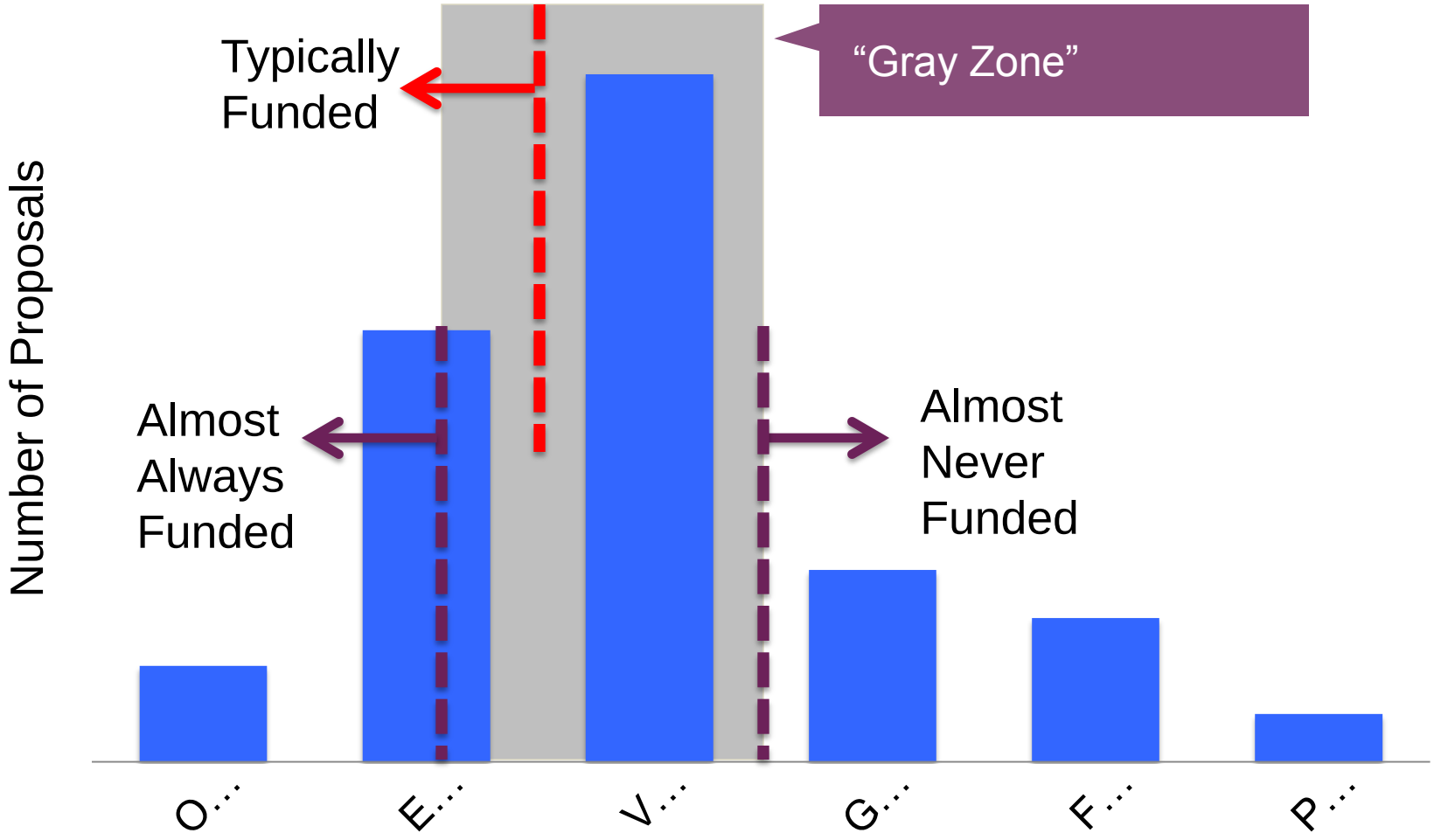

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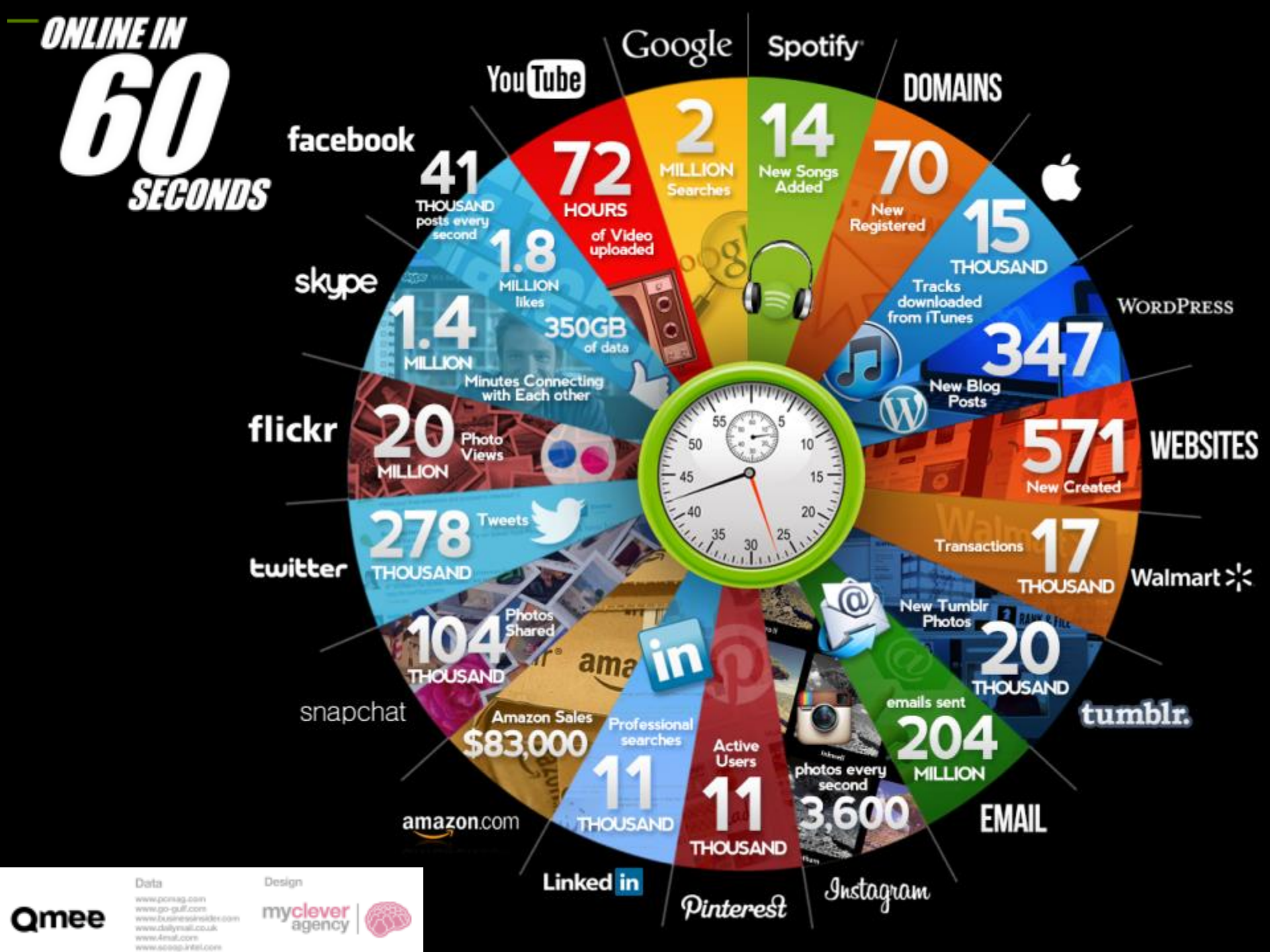
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Author(s): Nicholas D. Pyenson, Jeremy A. Goldbogen, A. Wayne Vogl, Gabor Szathmary, Richard L. Drake, Robert E. Shadwick

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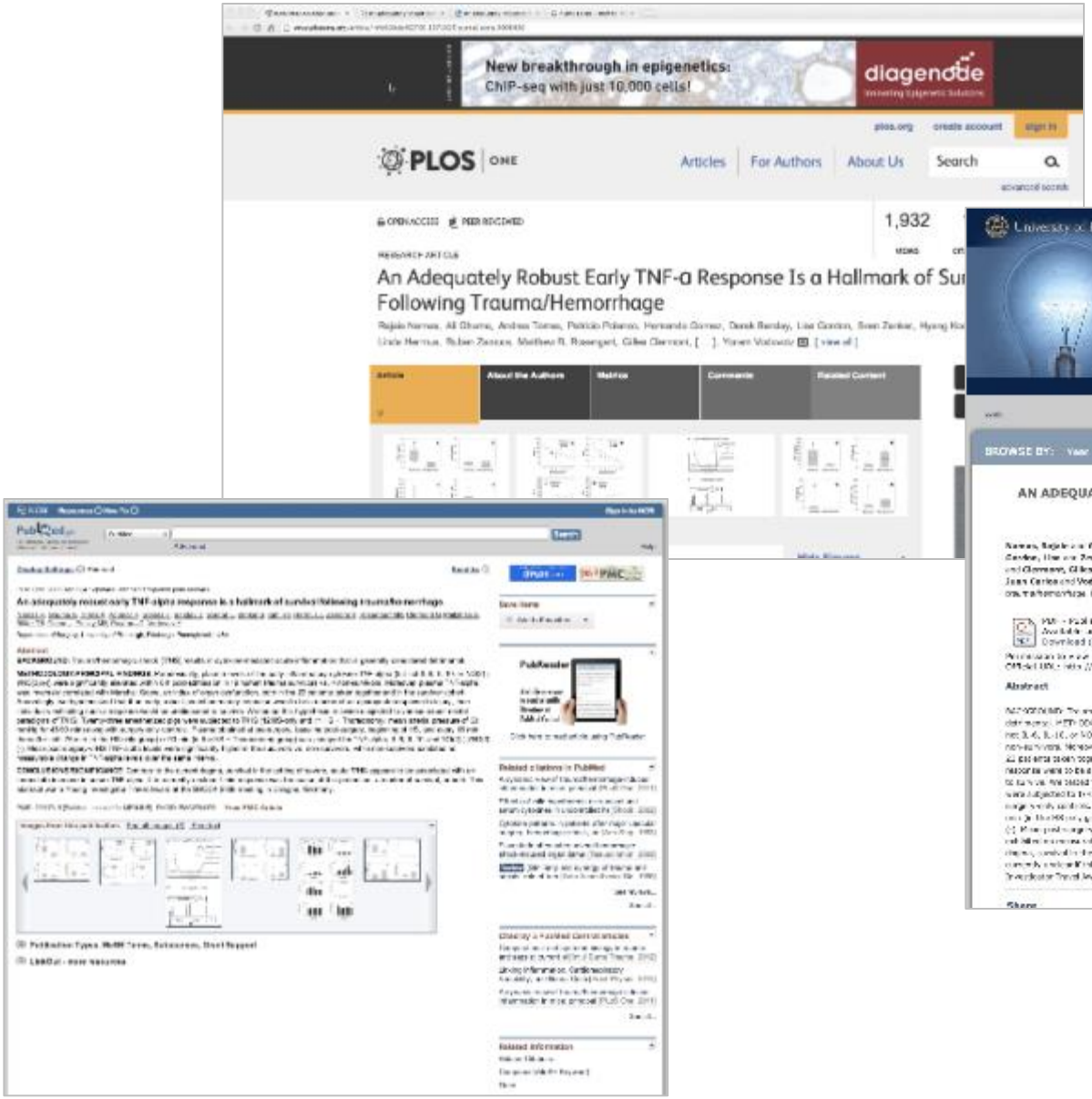

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