

THE RESEARCH BRIDGE

Andrew Beeken

University of Lincoln

Research Information Systems Developer

Problems and
Solutions for
Research
related
Information

WHAT IS THE RESEARCH BRIDGE?

“A TOOLKIT to connect multiple RESEARCH SYSTEMS and allow their INFORMATION to be INTERROGATED, COMPARED and used in a MEANINGFUL way.”

THE PROBLEM

- We need to be able to...
- Monitor compliance with HEFCE, RCUK and institutional mandates
- Generate reports for individuals, research groups, schools, central planning
- Model scenarios and plan for the REF
- Ingest and report on citation data
- Record and monitor statements of impact and evidence
- All of this information is currently stored in different systems which are disconnected

WHAT SORT OF INFORMATION?

- Publications (Repository - EPrints)
- Citations and Usage (Altmetrics, Scopus, IRStats, Google Analytics)
- Researcher IDs (ORCID)
- Impact
- Article Processing Charges
- Grant and Project Information (Awards Management System)
- Data Management Plans and Research Data
- Emerging Requirements (Ethics, Licenses)
- N.B. We don't have a CRIS...

WHAT CAN THE RESEARCH BRIDGE PROTOTYPE DO?

Connects to...	...which does...
Repository	Get information on research outputs
Altmetric	Get information on citations from online sources such as websites, social media and blogs
Scopus	Get information on citations across journals recorded in the Scopus database
IRStats	Get usage information for the repository (page views, downloads)
Google Charts	Allows visualization of gathered information













DISPLAY A USER FOCUSED LIST OF OUTPUTS WITH RELEVANT USAGE DATA

My Outputs

Conference or Workshop Item Article **Book or Monograph** Book Section

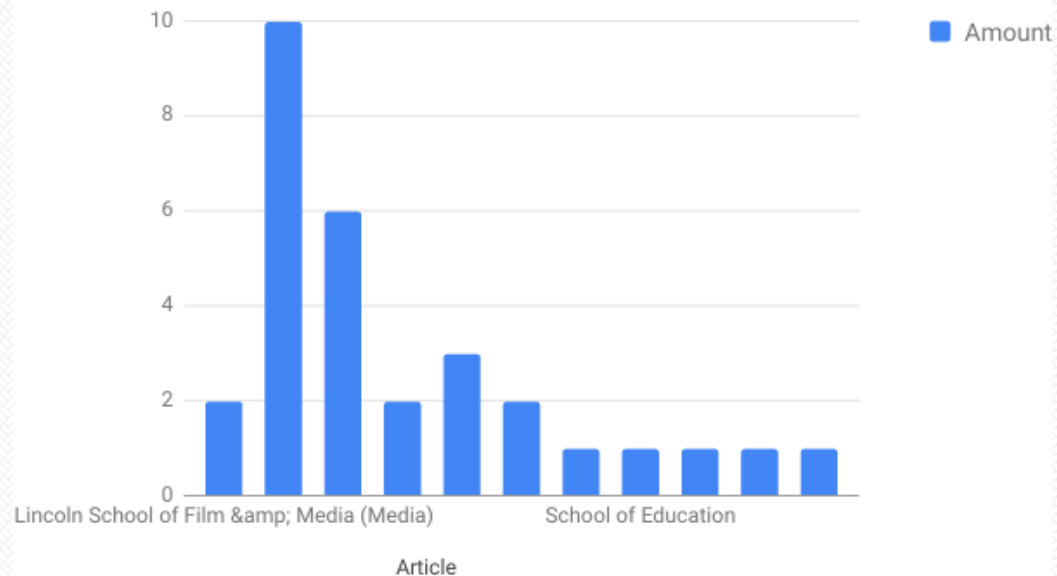
Show 10 entries

Search:

Favourite	Output Title	Altmetric	Scopus	Web of Science	Downloads
☆	Left gaze bias in humans, rhesus monkeys and domestic dogs	 27	58		3768
☆	Early tracking of informant accuracy and inaccuracy	 0	35		1
☆	What is 'on' and 'under' for 15-, 18- and 24-month- olds? Typicality effects in early comprehension of spatial prepositions	 0	32		4
☆	Discrimination of human and dog faces and inversion responses in domestic dogs (<i>Canis familiaris</i>)	 15	29		1250
☆	Don't kiss a sleeping dog: the first assessment of "The Blue Dog" bite prevention program	 26	23		72
☆	Reading faces: differential lateral gaze bias in processing canine and human facial expressions in dogs and 4-year-old children	 44	19		200

GENERATE REPORTS BASED ON THIS INFORMATION

Article
by subject



Review


- School of Education: 1
- Lincoln Law School: 1
- School of Social & Political Sciences: 1


CREATE COLLECTIONS OF RESEARCH OUTPUTS


View collection

Engineering

A collection of engineering outputs

 View Collection

 Manage Authors

 Manage Outputs

 Share Collection

 Delete Collection

Ieuan Owen

- Kaaria, C. H. and Wang, Y. and Padfield, G. D. and Forrest, J. S. and Owen, Ieuan (2012) [Aerodynamic loading characteristics of a model-scale helicopter in a ship's airwake](#). *Journal of Aircraft*, 49 (5). pp. 1271-1278. ISSN 0021-8669
- Wang, Y. and Curran, J. and Padfield, G. D. and Owen, I. (2011) [AirDyn: an instrumented model-scale helicopter for measuring unsteady aerodynamic loading in airwakes](#). *Measurement Science and Technology*, 22 (4). pp. 1-12. ISSN 0957-0233

Chris Bingham

- Smith, Tim and Bingham, Chris and Stewart, Paul and Allarton, Richard and Stewart, Jill (2013) [Energy harvesting and power network architectures for the multibody advanced airship for transport high altitude cruiser-feeder airship concept](#). *Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering*, 227 (4). pp. 586-598. ISSN 0954-4100

Jun Chen

- Weiszer, Michal and Chen, Jun and Locatelli, Giorgio (2015) [An integrated optimisation approach to airport ground operations to foster sustainability in the aviation sector](#). *Applied Energy*. ISSN 0306-2619
- Weiszer, Michal and Chen, Jun and Stewart, Paul (2015) [A real-time active routing approach via a database for airport surface movement](#). *Transportation Research Part C: Emerging Technologies*, 58 (A). pp. 127-145. ISSN 0968-090X

THE TECH

- Custom function library on a Wordpress backbone
 - Wordpress handles users and AD logins allowing system to be locked to UoL users
 - WP Database framework allows rapid, agile development of new features
- Does not interact directly with systems – uses suite of available APIs
- Linux/Apache/MySQL/PHP server
 - Ideal solution for Wordpress deployment
 - Currently in test system
- Building on some of the ideas of the JISC funded Orbital Project (to 2012) using institutional processes

WHERE NEXT?

- Currently at a prototyping phase, discovering what is possible with the available information
- Give access to a pilot group of academics to allow them to help mould it
 - Online forum to allow discussion on features and bugs
- Looking at how other institutions are tackling this issue
- Introduce more information to add value (Web of Science, Google Analytics, Media Monitoring)
- Build on prototype to ensure it sits within institutional standards (Sharepoint, Master Data Management Project)
- We believe that this is a unique product – the flexibility we require cannot be matched by any “off the shelf” solution

THANK YOU!

Any questions?

Email: anbeeken@lincoln.ac.uk

Twitter: [@abeeken](https://twitter.com/abeeken)

Web: andrewbeeken.co.uk