Metrics for your CV or Promotion Portfolio

Dr. Fintan Bracken

For links to resources used in this workshop go to: http://www.symbaloo.com/mix/ullibraryresearch
Presentation Outline

- Citation Analysis
  - Web of Science (ISI)
  - Scopus
  - Google Scholar/Publish or Perish
- Journal Ranking
  - Journal Citation Reports
  - CiteScore and SCImago Journal Rank
  - Alternative journal ranking schemes
- Altmetrics
- Download statistics
- Your CV
There are 3 main tools to use to find how many citations your publications have received & what your h-index is:

- Web of Science
- Scopus
- Google Scholar (Publish or Perish).

Each tool may give a different answer as the content (sources) covered by each tool varies as does the depth of coverage & discipline coverage.
The h-index is a simple metric to quantify the scientific output of an individual (Hirsch, 2005).

A h-index of 10 means that of all of the papers written by this author, 10 papers have been cited at least 10 times each.

Only meaningful when compared to others within the same discipline area & at the same career stage.

<table>
<thead>
<tr>
<th>Title</th>
<th>Journal Title</th>
<th>Year</th>
<th>Google Scholar Citations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Effects of set-aside management on birds breeding in lowland Ireland</td>
<td>Agriculture, ecosystems &amp; environment</td>
<td>2006</td>
<td>27</td>
</tr>
<tr>
<td>Breeding bird populations of Irish peatlands</td>
<td>Bird Study</td>
<td>2008</td>
<td>5</td>
</tr>
<tr>
<td>The impact of farming on over-wintering bird populations</td>
<td>Tearmann</td>
<td>2003</td>
<td>5</td>
</tr>
<tr>
<td>The diversity of birds and butterflies in Irish lowland landscapes with special reference to the effects of set-aside management on birds in the breeding season</td>
<td>PhD Thesis</td>
<td>2004</td>
<td>1</td>
</tr>
<tr>
<td>Lowland bogs, fens and reedswamps</td>
<td>Bird Habitats in Ireland</td>
<td>2012</td>
<td>0</td>
</tr>
<tr>
<td>The value of the Open Access Repository to the Marine Institute</td>
<td>GLINT</td>
<td>2012</td>
<td>0</td>
</tr>
<tr>
<td>The potential use of online tools for scientific collaboration by biology researchers</td>
<td>Aslib Journal of Information Management</td>
<td>2014</td>
<td>0</td>
</tr>
<tr>
<td>Measuring the value of e-resources</td>
<td>An Leabharlann</td>
<td>2014</td>
<td>0</td>
</tr>
</tbody>
</table>

The h-index is 3 as 3 publications have at least 3 citations each. In order to obtain a h-index of 4, the 4th ranked publication (the PhD thesis) would need to receive 3 more citations.
Web of Science (http://www.webofscience.com)

Citation report for 150 results from Web of Science Core Collection between 1945 and 2018. 

- Total Publications: 150
- h-index: 24
- Average citations per item: 12.4
- Sum of Times Cited: 1,860
- Without self citations: 1,432
- Citing articles: 896
- Without self citations: 774

Sum of Times Cited per Year

[Graph showing the sum of times cited per year from 1995 to 2017]
Web of Science Video Tutorials

• Citation Report and the h-Index:
  https://www.youtube.com/watch?v=7qssEKTHQII

• What is Cited Reference Search?:
  https://www.youtube.com/watch?v=JhZ3gVbW6Fk

• How to do a Cited Reference Search:
  https://www.youtube.com/watch?v=9jcZIwf_VZA
Web of Science is a platform consisting of several literature search databases designed to support scientific and scholarly research.

There are databases with a subject focus like Medline, BIOSIS Citation Index, and Zoological Record; databases with a document type focus like Derwent Innovations Index (patents) and Data Citation Index (datasets and data studies); and databases highlighting content from regions around the world.

Web of Science Core Collection is our premier resource on the platform and includes over 18,000 peer-reviewed, high-quality scholarly journals published worldwide (including Open Access journals), over 160,000 conference proceedings, and over 80,000 editorially selected books.
Hawking, Stephen W.
University of Cambridge, Cambridge, United Kingdom
Author ID: 6701475619

Documents: 138
Citations: 24396 total citations by 15590 documents
h-Index: 65

Co-authors: 41
Subject area: Physics and Astronomy, Mathematics

138 Documents | Cited by 15590 documents | 41 co-authors

138 documents

Quantum probabilities for inflation from holography
Hartle, J.B., Hawking, S.W., Herioq, T.
2014 Journal of Cosmology and Astroparticle Physics

Singualrities and the geometry of spacetime
Hawking, S.
2014 European Physical Journal H

Cosmology from the top down (Book Chapter)
Hawking, S.
2013 Universe or Multiverse?
This author's h-index is 65.
Cited Reference Searching in Scopus (Advanced Search options)
Publish or Perish

- Free software created by Anne-Wil Harzing
  http://www.harzing.com/pop.htm
- Uses Google Scholar data (can also select Microsoft Academic Search data in Version 4 and above)
- Google Scholar covers more books, conference papers, technical reports, etc. than Web of Science & Scopus
- Coverage is uncontrolled
Google Scholar / Publish or Perish

<table>
<thead>
<tr>
<th>Papers</th>
<th>Citations</th>
<th>Cites/year</th>
<th>Cites/auth/year</th>
<th>Cites/paper</th>
<th>h-index</th>
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<tr>
<td>7</td>
<td>38</td>
<td>3.83</td>
<td>1.45</td>
<td>5.43</td>
<td>3</td>
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</table>

<table>
<thead>
<tr>
<th>Title</th>
<th>Year</th>
<th>Publication</th>
</tr>
</thead>
<tbody>
<tr>
<td>Effects of set-aside management on birds brie...</td>
<td>2006</td>
<td>Agriculture</td>
</tr>
<tr>
<td>Breeding bird populations of Irish peatlands: Ca...</td>
<td>2008</td>
<td>Bird Study</td>
</tr>
<tr>
<td>The impact of farming on over-wintering bird pop...</td>
<td>2003</td>
<td></td>
</tr>
<tr>
<td>The diversity of birds and butterflies in Irish lo...</td>
<td>2004</td>
<td></td>
</tr>
<tr>
<td>Open Access and Horizon 2020</td>
<td>2014</td>
<td></td>
</tr>
<tr>
<td>The potential use of online tools for scientific co...</td>
<td>2014</td>
<td>Aslib Journal</td>
</tr>
<tr>
<td>Measuring the value of e-resources</td>
<td>2014</td>
<td></td>
</tr>
</tbody>
</table>
Journal Rankings

- Journal Impact Factor – Journal Citation Reports (ISI/Web of Science)
- CiteScore & SCImago Journal Rank (Scopus)
- Alternative journal ranking schemes
Journal Impact Factor Calculation

Citations in **2016** for items published in **2015 + 2014**

\[
\frac{\text{Total No. of articles published in 2015 + 2014}}{\text{Citations in 2016 for items published in 2015 + 2014}} = \text{Journal Impact Factor}
\]

*(Impact factor is a relative number)*
<table>
<thead>
<tr>
<th>Rank</th>
<th>Full Journal Title</th>
<th>Total Cites</th>
<th>Journal Impact Factor</th>
<th>Eigenfactor Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>CA-A CANCER JOURNAL FOR CLINICIANS</td>
<td>18,594</td>
<td>115.840</td>
<td>0.06277</td>
</tr>
<tr>
<td>2</td>
<td>NEW ENGLAND JOURNAL OF MEDICINE</td>
<td>268,552</td>
<td>55.873</td>
<td>0.67724</td>
</tr>
<tr>
<td>3</td>
<td>CHEMICAL REVIEWS</td>
<td>137,600</td>
<td>46.588</td>
<td>0.22463</td>
</tr>
<tr>
<td>4</td>
<td>LANCET</td>
<td>185,361</td>
<td>45.217</td>
<td>0.39596</td>
</tr>
<tr>
<td>5</td>
<td>NATURE REVIEWS DRUG DISCOVERY</td>
<td>23,811</td>
<td>41.908</td>
<td>0.06024</td>
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<tr>
<td>6</td>
<td>NATURE BIOTECHNOLOGY</td>
<td>45,986</td>
<td>41.514</td>
<td>0.14944</td>
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<tr>
<td>7</td>
<td>NATURE</td>
<td>617,363</td>
<td>41.456</td>
<td>1.50140</td>
</tr>
<tr>
<td>8</td>
<td>Annual Review of Immunology</td>
<td>16,750</td>
<td>39.327</td>
<td>0.04565</td>
</tr>
</tbody>
</table>
JCR Guides & Training Videos
http://clarivate.libguides.com/jcr

Journal Citation Reports: Learn the Basics

Journal Citation Reports® offers a systematic, objective means to critically evaluate the world’s leading journals, with quantifiable, statistical information based on citation data.

Journal Citation Reports Data

Journal Citation Reports is sourced from Web of Science Core Collection, the premier citation index on the Web of Science platform. Journals must undergo a rigorous evaluation by our editorial team in order to be covered in Web of Science Core Collection. We capture the cited references for all content from these journals, and we link those cited references to the cited papers. This article-level citation data is aggregated to the journal-level at the end of the year to create the indicators available in JCR. Over 11,000 titles from the Science Citation Index-Expanded and Social Sciences Citation Index are covered in JCR. The Science and Social Science editions of JCR are released annually.

Understanding Journal Citation Reports Metrics

The Journal Impact Factor identifies the frequency with which an average article from a journal is cited in a particular year. You can use this number to evaluate or compare a journal’s relative importance to others in the same field or see how frequently articles are cited to determine which journals may be better for your collection.

Example 2015 Impact Factor Calculation:
SCImago Journal Rank (SJR)

- Freely available on the web & via Scopus
- Uses Scopus dataset & Google PageRank™ algorithm
- Coverage is wider than Web of Science / JCR
- SJR gives higher weight to citations from high impact journals
- Calculated over a 3 year period
<table>
<thead>
<tr>
<th>Title</th>
<th>Type</th>
<th>SJR</th>
<th>H Index</th>
<th>Total Docs. (2015)</th>
<th>Total Docs. (3years)</th>
<th>Total Refs.</th>
<th>Total Cites (3years)</th>
<th>Citable Docs. (3years)</th>
<th>Cites / Doc. (2years)</th>
<th>Ref. / Doc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nature Reviews Molecular Cell Biology</td>
<td>journal</td>
<td>32.928</td>
<td>324</td>
<td>170</td>
<td>539</td>
<td>8084</td>
<td>7978</td>
<td>202</td>
<td>37.10</td>
<td>47.55</td>
</tr>
<tr>
<td>Annual Review of Immunology</td>
<td>journal</td>
<td>32.720</td>
<td>254</td>
<td>26</td>
<td>74</td>
<td>5684</td>
<td>2937</td>
<td>74</td>
<td>35.72</td>
<td>218.62</td>
</tr>
<tr>
<td>Nature Reviews Genetics</td>
<td>journal</td>
<td>32.615</td>
<td>267</td>
<td>157</td>
<td>676</td>
<td>6584</td>
<td>8171</td>
<td>212</td>
<td>36.13</td>
<td>41.94</td>
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<tr>
<td>CA - A Cancer Journal for Clinicians</td>
<td>journal</td>
<td>32.242</td>
<td>117</td>
<td>43</td>
<td>139</td>
<td>3741</td>
<td>8650</td>
<td>117</td>
<td>80.54</td>
<td>87.00</td>
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<tr>
<td>Cell</td>
<td>journal</td>
<td>28.188</td>
<td>616</td>
<td>651</td>
<td>1794</td>
<td>25257</td>
<td>40673</td>
<td>1626</td>
<td>23.40</td>
<td>38.80</td>
</tr>
<tr>
<td>Annual Review of Astronomy and Astrophysics</td>
<td>journal</td>
<td>27.055</td>
<td>138</td>
<td>16</td>
<td>41</td>
<td>3575</td>
<td>1373</td>
<td>40</td>
<td>35.04</td>
<td>223.44</td>
</tr>
</tbody>
</table>
CiteScore

https://journalmetrics.scopus.com/

- Freely available on the web & via Scopus
- Similar calculation to Journal Impact Factor except 3 year period
Discipline Specific Rankings

• Washington and Lee Law Journal Ranking
  (http://lawlib.wlu.edu/LJ/)

• Harzing’s Journal Quality List
  (http://www.harzing.com/jql.htm)
### ENTREPRENEURSHIP AND SMALL BUSINESS MANAGEMENT

<table>
<thead>
<tr>
<th>ISSN</th>
<th>Journal Title</th>
<th>Ratings</th>
<th>Standardised scores based on means</th>
<th>Small Journal (&lt;30 doc)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1042-2587</td>
<td>Entrepreneurship Theory and Practice</td>
<td>4</td>
<td>JCR 1.009</td>
<td>SJR 1.522</td>
</tr>
<tr>
<td>0883-9026</td>
<td>Journal of Business Venturing</td>
<td>4</td>
<td>JCR 1.464</td>
<td>SJR 2.878</td>
</tr>
<tr>
<td>1932-4391</td>
<td>Strategic Entrepreneurship Journal</td>
<td>3</td>
<td>JCR 0.582</td>
<td>SJR -0.544</td>
</tr>
<tr>
<td>0898-5626</td>
<td>Entrepreneurship and Regional Development</td>
<td>3</td>
<td>JCR -0.838</td>
<td>SJR 0.101</td>
</tr>
<tr>
<td>0894-4865</td>
<td>Family Business Review</td>
<td>3</td>
<td>JCR 0.512</td>
<td>SJR 0.258</td>
</tr>
<tr>
<td>0266-2426</td>
<td>International Small Business Journal</td>
<td>3</td>
<td>JCR -0.989</td>
<td>SJR -0.016</td>
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<tr>
<td>0047-2778</td>
<td>Journal of Small Business Management</td>
<td>3</td>
<td>JCR -1.020</td>
<td>SJR 0.204</td>
</tr>
<tr>
<td>0921-898X</td>
<td>Small Business Economics</td>
<td>3</td>
<td>JCR -0.719</td>
<td>SJR 0.660</td>
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<tr>
<td>1355-2554</td>
<td>International Journal of Entrepreneurial Behavior and Research</td>
<td>2</td>
<td>JCR -0.524</td>
<td>SJR -0.016</td>
</tr>
<tr>
<td>1465-7503</td>
<td>International Journal of Entrepreneurship and Innovation</td>
<td>2</td>
<td>JCR -0.538</td>
<td>SJR -0.598</td>
</tr>
<tr>
<td>1877-8585</td>
<td>Journal of Family Business Strategy</td>
<td>2</td>
<td>JCR -0.696</td>
<td>SJR -0.587</td>
</tr>
<tr>
<td>1462-6004</td>
<td>Journal of Small Business and Enterprise Development</td>
<td>2</td>
<td>JCR -0.538</td>
<td>SJR -0.598</td>
</tr>
</tbody>
</table>

**Chartered Association of Business Schools**
European Reference Index for the Humanities & the Social Sciences (ERIH PLUS)

- ERIH PLUS includes scientific journals in humanities & social sciences published in Europe that meet benchmark standards
- Journals are not allocated to particular categories
- [https://dbh.nsd.uib.no/publiseringskanaler/erihplus/](https://dbh.nsd.uib.no/publiseringskanaler/erihplus/)
The European Science Foundation (ESF) signed in January 2014 a memorandum of understanding with the NSD - Norwegian Centre for Research Data to transfer the maintenance and operations of the European Reference Index for the Humanities (ERIH) to NSD. The ERIH database operated by NSD is called ERIH PLUS.

Search

NOTE: The search is not working for ISSN ending with X.

Search hits

The search returned 947 hits.

1. **Zeitschrift für französische Sprache und Literatur**
   - Print ISSN: 0044-2747  Electronic ISSN: 2366-2425
   - Country of publication: Germany  Language: Multiple languages
   - Discipline: Linguistics

2. **ITL International Journal of Applied Linguistics**
   - Print ISSN: 0019-0810  Electronic ISSN: 1783-1490
   - Country of publication: Belgium  Language: Multiple languages
   - Discipline: Linguistics

3. **Journal of the Chinese Language Teachers Association**
   - Print ISSN: 0009-4595  Electronic ISSN: 2352-2259
   - Country of publication: United States  Language: Chinese
   - Discipline: Linguistics

4. **Kwartalnik neofilologiczny**
   - Print ISSN: 0023-5911
   - Discipline: Linguistics
Altmetrics

• Measures of scholarly activity & impact which differ from the traditional measures such as citations
• Aim is to provide a more comprehensive picture of scholarly activity & of the use & impact of a researcher's work
• Altmetrics are largely based on social media activity:
  • downloads, shares, tweets, likes, views, bookmarks, comments, reviews, wikipedia articles, blog posts, news stories, saves, +1s, google scholar citations, favourites, clicks, stars, mentions ...
Potential of Altmetrics in:

- Providing real-time indicators of impact
- Capturing ‘practitioner’ impact of those who may never publish
- Showing evidence of industry & public engagement
- Being an indicator for future citations?
Impactstory (http://impactstory.org/) tracks impact from across the Web. Create a profile with your ORCID credentials in a minute.

Fintan Bracken
University of Limerick Research Services & Bibliometrics Librarian

- Open access 100%
- Open Hero!

ACHIEVEMENTS

Open Hero  Top 10%
Every single one of your papers is free to read online. Wow! That's a level of access only 2% of other researchers achieve. Open access helps real people, and that's pretty heroic.

Hot Streak  Top 25%
People keep talking about your research. Someone has shared your research online every month for the last 2 months. That's a sharing streak matched by only 20% of scholars.

Global Reach
Your research has been saved and shared in 13 countries.

TIMELINE

16 Online mentions over 13 years
15
1

PUBLICATIONS

- The potential use of online tools for scientific collaboration by biology researchers
  2014 Aslib Journal of Information Management
  10

- Effects of set-aside management on birds breeding in lowland Ireland
  2006 Agriculture Ecosystems & Environment
  4

- Breeding bird populations of Irish peatlands
  2008 Bird Study
  2

https://impactstory.org/u/0000-0002-1228-5109
Altmetric.com tracks the following sources:

**News outlets**
- Over 2,000 sites
- Manually curated list
- Text mining
- Global coverage
  - Irish Daily Star
  - Irish Examiner
  - Irish Independent
  - Irish Times
  - TheJournal.ie

**Social media and blogs**
- Twitter, Facebook, Google+, Sina Weibo
- Public posts only
- Manually curated list

**Post-publication peer review**
- Publons
- PubPeer

**Reference managers**
- Mendeley, CiteULike
- Reader counts
  - *Don’t count towards the Altmetric score*

**Other sources**
- Wikipedia
- YouTube
- Reddit
- F1000
- Pinterest
- Q&A

**Policy documents**
- NICE Evidence
- Intergovernmental Panel on Climate Change
- European Food Safety Authority
  - WHO
  - Many more
Altmetric.com bookmarklet

- works for any paper with a DOI [http://altmetric.it](http://altmetric.it)
How can Researchers use Altmetric Explorer

- Track attention to your research immediately
- Uncover (unknown) conversations about your research
- Use in grant applications & funder reporting
ULRIS & Altmetric Explorer

- All publications in UL’s Research Information System (ULRIS) that have a DOI (digital object identifier) are added to Altmetric for Institutions & tracked for altmetrics

- A DOI looks something like this: 10.1038/nature14307

- Ensure that if your publication has a DOI that it is added to the field “DOI Link” in the reference in ULRIS so that it will be tracked by Altmetric for Institutions
Superrotation charge and supertranslation hair on black holes
What you can do?

- Ensure that the details of all of your publications are added to ULRIS especially the DOI for each reference
- If your publication hasn’t got a DOI add it to the UL Institutional Repository (ULIR) as each item is also tracked by Altmetric
- Communicate & promote your research online: Twitter, blogs, etc
- When talking online about your publications include the DOI instead of the normal publisher’s URL to ensure it is tracked by Altmetric
- Add http://dx.doi.org/ in front of the DOI to convert it to a clickable URL e.g. http://dx.doi.org/10.1038/nature14307
Web of Science Usage Counts

www.webofscience.com

Sort by Usage Counts. Counts display when sort option is chosen.

Usage Counts can also be found on Full Record

Full Usage Count view can be opened and closed.
Download Statistics

- Individual journals & publishers e.g. IEEE, PLoS
- Mendeley – Elsevier journals i.e. ScienceDirect
Human Mobility Enhances Global Positioning Accuracy for Mobile Phone Localization

Wu, C., Chenshu Wu is with the School of Software and TNList, Tsinghua University. Yu Xu is with the Wenzhou University (email wu@greenbbs.com); Yang, Z.; Xu, Y.; Zhao, Y.

Metrics

Usage*

2014

Jan  -  5  10  16  10  10
Feb  10  -  -  -  -  -
Mar  16  -  -  -  -  -
Apr  10  -  -  -  -  -
May  10  -  -  -  -  -
Jun  10  -  -  -  -  -
Jul  -  -  -  -  -  -
Aug  -  -  -  -  -  -
Sep  -  -  -  -  -  -
Oct  -  -  -  -  -  -
Nov  -  -  -  -  -  -
Dec  -  -  -  -  -  -

Total usage since Feb. 2014: 72

Best Month: July

Year Total: 72

* Data is updated on a monthly basis. Usage includes PDF downloads and HTML views.

Citations

No related citations found.
Composable user-defined operators that can express user-defined literals

Authors: Kazuhiro Ichikawa The University of Tokyo, Tokyo, Japan
        Shigeru Chiba The University of Tokyo, Tokyo, Japan

Published in: Proceeding MODULARITY '14 Proceedings of the 13th international conference on Modularity
               Pages 13-24
               ACM New York, NY, USA ©2014

This paper proposes new composable user-defined operators, named protean operators. They can express various language extensions including user-defined literals such as regular expression literals as well as user-defined expressions. Their expressiveness is equivalent to Parsing Expression Grammar (PEG). The operators have two important features to be parsed in pragmatic time: overloading by return type and a precedence rule for operators. They can be parsed efficiently even if they express user-defined literals since ambiguities in the grammar are removed by these two features. The overloading by return type enables us to consider static types as non-terminal symbols in the grammar. The compiler can use static type information for parsing. It can resolve ambiguities of the rules with the same syntax but a different type. Protean operators with the same return type require programmers to declare the precedence among them. These precedence rules enable completely removing ambiguities from the grammar since all the rules applicable to the same place are ordered.
PLoS Article-Level Metrics [http://almreports.plos.org/]

**ALM: Measuring the Impact of Research**

ALM Reports allow you to view article-level metrics for any set of PLOS articles as well as summarize and visualize the data results.

**Search all Articles**
- Keyword: 
- By DOI/PMID
- Upload File

**Browse the 'Best in Class' articles from PLOS**
- Top Views
- Top Bookmarked
- Twitter
- Top Cited
- Top Shares

---

**Metrics Data**

1 - 5 of 100 articles

1. **Long Noncoding RNA MALAT1 Controls Cell Cycle Progression by Regulating the Expression of Oncogenic Transcription Factor B-MYB**
   - Vidisha Tripathi, Zhen Shen, Anindam Chakraborty, Sumanta Giri, Susan M. Freier, Xiaolin Wu, Yongqing Zhang, Mynam Goroospe, Supriya G. Prasanth, Ashish Lai, Kamalnath Prasanth
   - Research Article | Published 21 Mar 2013 | PLoS Genet 10.1371/journal.pgen.1003358

**Viewed**
- PLOS views: 9,286
- PLOS PDF downloads: 1,809
- PLOS XML downloads: 34
- PMC views: 1,568
- PMC PDF Downloads: 1,565
- Total usage: 14,283

**Saved**
- CiteULike: 1
- Mendeley: 52
- Figma: 10

**Discussed**
- Twitter: 1

**Cited**
- PubMed Central: 17
- CrossRef: 44
- Scopus: 41
- PMC Europe Citations: 34
- PMC Europe Database Citations: 2
- Web of Science: 34

---

**Article Usage and Citations as a function of Age**

Total usage includes page views and downloads from PLOS and PMC. Bubble size correlates with Scopus citations and bubble color with the PLOS journal.

**Source:** 100 published articles from January 02, 2013 to September 10, 2013
Mendeley

- Sign up for account at [www.mendeley.com](http://www.mendeley.com) and add your publications to your profile
- You will see downloads to your article published in Elsevier journals

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**Publications**

**The potential use of online tools for scientific collaboration by biology researchers**

View stats

**Breeding bird populations of Irish peatlands**
Bracken F, McMahon B, Whelan J

View stats

**Effects of set-aside management on birds breeding in lowland Ireland**
Bracken F, Bolger T

View stats
Exploring FPGA dynamic reconfiguration for sound source localization and tracking algorithms

Abstract:
The ever-increasing complexity of new electronic systems designs, combined with the need for very high performance and low power consumption have created new design challenges for engineers and designers. This dissertation focuses on the development of new FPGA reconfiguration algorithms, which can be used for the design and implementation of FPGA-based sensor systems for sound source localization and tracking applications. The main contributions of the dissertation are: optimization of the reconfiguration algorithm for FPGA-based sensor systems, implementation of the reconfiguration algorithm on a reconfigurable FPGA, and the use of the reconfiguration algorithm for sound source localization and tracking applications.

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- Awards (best paper award etc.)
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- Book sales
- Editorial board membership
- Interviews & public appearances
- Scholarly articles in newspapers/magazines
- Download statistics for datasets / open source software / e-books / Slideshare presentations / YouTube videos
- Links to professional blogs & social media accounts (e.g. LinkedIn, Twitter, ResearchGate, Acedemia.edu, etc.)
Example layout of a CV with metrics included

Fintan Bracken CV

Summary
Since 2006, I have published 4 peer-reviewed articles (3 as first author) and 1 book chapter. I have a h-index of 2 as calculated by Web of Science and Scopus or 3 as calculated by Google Scholar.

Metrics

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<thead>
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<th>Metric</th>
<th>Web of Science</th>
<th>Scopus</th>
<th>Google Scholar</th>
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</tr>
</tbody>
</table>

Publications

Key: JIF = Journal Impact Factor 2014, SJR = ScImago Journal Rank 2014, Q1 = Quartile 1 or top 25%, Q2 = Quartile 2, Q3 = Quartile 3, Q4 = Quartile 4, WoS = Web of Science, GS = Google Scholar, Altmetric = Altmetric.com score, ULIR = Full-text downloads from ULIR, UCD = Full-text downloads from Research Repository UCD. (As at 15th December 2015)

Web of Science (ISI) Journal Articles

Citations: 1 (GS)
JIF: 0.676, Q2 Information Science & Library Science; Q4 Computer Science, Information Systems
SJR: 0.776, Q1 Library and Information Sciences; Q2 Information Systems
Altmetric: 5; ULIR: 125; UCD: 324

Citations: 2 (WoS), 2 (Scopus), 5 (GS)
JIF: 1.107, Q2 Ornithology
SJR: 0.559, Q2 Nature and Landscape Conservation, Q2 Ecology, Evolution, Behavior and Systematics
Altmetric: 2; UCD: 216

Citations: 12 (WoS), 16 (Scopus), 33 (GS)
JIF: 3.402, Q1 Agriculture, Multidisciplinary, Q1 Environmental Sciences, Q1 Ecology
SJR: 1.476, Q1 Animal Science and Zoology, Q1 Ecology, Q1 Agronomy and Crop Science
Altmetric: 2; UCD: 299
Examples of Altmetrics in CVs

- Ethan White, Ecology, Utah State University
  

- Scott Ross, Conservation Biology, Oklahoma State University
  
  MEDIA COVERAGE OF RESEARCH

  Research on feral and free-ranging pet cat impacts on U.S. wildlife
  
  • Paper in Nature Communications covered by >300 media outlets worldwide, including most major television and radio outlets.
  
  • “Cats kill billions” the #1 trending topic on both Google and Yahoo! on 1-29-13.
  
  • New York Times article “That cuddly kitty is deadlier than you think” the most downloaded and most emailed article of the week for NYTimes.com.
  
  • Smithsonian Office of Public Affairs estimated media coverage (not including TV) reached ≥550 million unique viewers and generated media attention equivalent to ≥$5.2 million spent on advertising.
  
  • Paper ranked #62 globally on Altmetric 2013 top 100 of academic research (http://www.altmetric.com/top100).

- Marie Soressi, Archaeology, Centre Archéologique d’Orléans/Max Planck Institute for Evolutionary Anthropology
  
  
  Paper scored 27th out of the 19,867 PNAS papers in Altmetric score on 19th January 2014, which is our measure of the quality & quantity of online attention that it has received. (see http://www.altmetric.com/details.php?domain=www.pnas.org&citation_id=1683958)

Research Services Guide http://libguides.ul.ie/research

Research Services: Introduction

The Glucksman Library's guide to assist researchers with all aspects of the research process from finding information to maximising impact.

5 Ways to Increase the Impact of your Research!

1. Publishing in high impact journals
2. Collaborating with other researchers
3. Ensuring your research is easily identifiable
4. Increasing the visibility of your research outputs
5. Communicating & promoting your research

Getting Published and Maximising Your Research Impact

This recorded lecture examines how to maximise the impact of your published research and summarises much of the content of this LibGuide.

Getting Published & Maximising Your Research Impact

Dr. Fintan Bracken

For links to resources used in this workshop go to: http://www.symbaloo.com/mix/ulibaryresearch

Research Support at UL

The Glucksman Library in the University of Limerick supports researchers in many different ways, including via the provision of quality research materials including books, e-journals and databases. In addition, there are a number of librarians that can help support your research including the Research Services & Bibliometrics Librarian and the Faculty Librarians.

Research Services & Bibliometrics Librarian

- Provide training and support on bibliometrics including journal impact measures, h-index and altmetrics
- Provide support on measuring your research impact and tracking your citations
- Advise on how to increase the visibility of your research and maximise the impact of your research
- Advise on open access publishing including funding agency policies
- Advise on author/publisher copyright permissions regarding open access publishing
- Provide training and support on the use of the University of Limerick Institutional Repository (ULIR)
- Provide EndNote training and support

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Kemmy Business School
Peter Reilly | Email: peter.reilly@ul.ie

Contact me

Fintan Bracken
Email Me

Hours
I am available to meet for individual or small group consultation from 8.30am-4.30pm Mon-Fri. Please contact me via email fintan.bracken@ul.ie

Acknowledgement
I would like to thank Michael Ladisch (University College Dublin) for his permission to use some contents of his guide.
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