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Measuring Research Output: Connecting to Faculty through Citation Metrics

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Measuring Research Output

Connecting to Faculty through Citation Metrics

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Journal Tools

Journal Citation Reports

Cabell's Directory

Author Tools

Web of Science



SCOPUS

Metric Definitions

Journal Impact Factor the impact factor of a journal is the number of citations to articles in that journal (in Web of Science) in previous two years, divided by number of original research articles and reviews published by that journal in the previous two years

Immediacy Index average number of times an article is cited in the year it is published

Journal Cited Half-Life the median age of the articles that were cited in the JCR year

Eigenfactor Score calculated by eigenfactor.org, this measure differs from the Journal Impact Factor by taking into account the influence of the journal of the citing article

Article Influence Score measures the average influence of a journal's articles over the first five years after publication

H-Index measures both the productivity and impact of the published work of a scientist or scholar (a scientist has index h if h of his/her N_p papers have at least h citations each, and the other ($N_p - h$) papers have no more than h citations each)

altmetrics the creation and study of new metrics based on the Social Web for analyzing, and informing scholarship

Strengths

- quantitative information about output
- when used together, tools give a broad picture of the impact of journal publishing activity
- widely used within academic departments to inform decisions of promotion and tenure

Weaknesses

- two most popular tools only measure the work that they index
- traditional tools don't capture grey literature and other informal scholarly communication
- coverage does not always include lifespan of author's work due to date coverage of tools
- developed to measure scientific scholarly publishing activity but now being applied to other disciplines where measures may not fit

Making Connections



New Faculty



Women in Science and Engineering



Research Profiles



Institutional Repository

altmetrics

<http://altmetrics.org/manifesto>

Total Impact



Reader Meter



Google Citations Profile

<http://scholar.google.com/citations>



Citation Metrics Guide

<http://researchguides.library.syr.edu/citationmetrics>

