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METRICS 2018: ASIS&T WORKSHOP ON INFORMETRICS AND SCIENTOMETRICS RESEARCH -- CfP

Submission Type: Tutorial (for an existing tool)

Category: Tools relevant to the fields of informetrics, scientometrics, bibliometrics, etc.

Title: Revealing the Impact of Researcher and Institutional Collaborations Through Normalized Indicators

METRICS 2018: ASIS&T WORKSHOP ON INFORMETRICS AND SCIENTOMETRICS RESEARCH
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ASIS&T 2018 Annual Meeting
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9:00am–5:00pm at the Hyatt Regency Vancouver, Canada

Abstract

The use case we focus on here is a very typical one within academic environments worldwide. Collaborative research in general is viewed in a very positive light, and within many universities of distinction it is viewed as a key factor in acquiring research funding. There have been various drivers behind this including, for some time, prioritization of collaborations on the part of funders such as the NSF. (NSF, 2006).

However, gaining an understanding of the collaborations themselves, the fruit they bear in terms of published research and its influence, is important for institutions as they look strategically at support of research partnerships. Use of citation indicators applied to this published research can be extremely helpful, a portion of the information utilized in assessing research collaboration outcomes.

Tutorial content will focus on the resource known as InCites Benchmarking & Analytics (*InCites B&A*) produced by Clarivate Analytics. Based on citation data derived from Web of Science Core Collection journals, proceedings, and books content *InCites B&A* provides for a multitude of comparisons of normalized citation indicators for people, papers, institutions and organizations, geographic regions, and funders.

Overview

The concepts and practices to be covered:

- Importance of the underlying data source. For any and all metrics designed for use in assessing research impact, it is critical that these are derived from a consistent, authoritative, and clearly defined body of data. The editorial approach to *Web of Science Core Collection* (*WoS CC*), the carefully curated source of *InCites B&A* metrics will be briefly discussed. From its inception over 50 years ago *WoS CC* has maintained an objective of presenting information for a select body of the world's scholarly journals that exhibit a disproportionate level of influence within their respective disciplines.

- *InCites B&A* metrics, their foundation. Within an *InCites B&A* discussion the primary focus is on citation metrics that at-a-glance communicate a level of influence as compared to the average or expected for like research. In order to accomplish this, established benchmarks for the expected must of course exist. The *InCites B&A* approach to establishing such baselines will be detailed.
- Capabilities of the *InCites B&A* tool itself. The bulk of this tutorial will take the form of fundamental training on the analyses options provide by *InCites B&A*, with a focus on revealing the impact of researcher and institutional collaborations.
 - Review of key indicators provided and how each is defined. Some examples:
 - Category Normalized Citation Impact (CNCI)
 - Journal Normalized Citation Impact (JNCI)
 - Impact Relative to World
 - % international collaborations
 - % industry collaboration
 - Methods for producing various citation impact perspectives, reports and visualizations, for authors and organizations will be detailed. A particular focus on options for gaining insight into influence around collaborative research will be reviewed.
 - Typical use cases focus on an academic institution's desire to identify particular collaborations – with particular people, institutions, and companies -- that produce more highly influential research. Gauging levels of industry collaboration, as well as international collaboration, are also important pieces in understanding the bigger picture an institution's research output. This naturally plays a role in decision-making around ongoing partnerships with particular institutions and companies.
 - Examining metrics/indicators for peer and aspirational peer institutions is also available within the *InCites B&A*, an as one might expect this is a heavily utilized capability. Examples of generation of such peer comparisons will also be detailed.

References

National Science Foundation. 2006. Investing in America's Future-Strategic Plan FY2006-2011, NSF06-48, Arlington, VA.