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The new age of altmetrics: the case of Scimago Journal & Country Rank

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Methodology

Literature review: we identified about 7 recent papers on the link between citations and altmetrics, with Google scholar, the Scopus database and Web of Science database.

Survey on Scimago Journal and Country Rank: we analyzed the citations of the journals in subject category “Library and Information Science”, regarding the bibliometrics and the altmetrics.

Survey on our results: we re-analyzed the results of our first survey and we searched for the difference between bibliometrics and altmetrics, in order to gain evidence for the discussion on the object of evaluation.

Introduction

Why citations are important within different perspectives?

- Proper credit to work and ideas of others
- Impact of a cited paper among the scholarly community

How to measure citations?

- With bibliometrics
- With altmetrics

Metrics

What metrics are:

- quantitative measurements
- statistics
- data analyzing various subject fields
- different kinds of metrics according to the field that they investigate

Types of metrics

Categories emerged over time:

- Classical metrics (librametrics, bibliometrics -citation analysis- / scientometrics, informetrics, etc.)
- Neo-classical metrics (cybermetrics / webometrics, etc.)
- Modern metrics (wikimetrics, open source metrics, journal metrics, author metrics, article-level metrics, altmetrics, etc.)

CYBERMETRICS
OPEN
AUTHOR
SOURCE
ARTICLE-LEVEL
JOURNAL
ALTMETRICS
WIKIMETRICS
BIBLIOMETRICS

Lost in a world full of metrics



Altmetrics

What altmetrics are:

- complementary to traditional, citation-based metrics
- metrics using multiple forms of assessment that are derived from activity at social media
- considered as an interesting option for measuring broader impact of research

Altmetrics may refer to academic outputs that are:

- viewed or read in HTML or PDF formats
- saved in bibliographic reference managers or social bookmarks such as Mendeley and CiteULike respectively
- discussed through comments in social media, science blogs and in the website of a journal
- recommended in databases such as F1000Prime
- cited in another paper of research

Advantages of Altmetrics

- continuously up to date indicators of online impact
- multiple forms of information can be analyzed such as articles, videos, datasets, books, slides / presentations, conference proceedings
- differentiation of impact depending on two different audiences, academic and non-academic
- provision of results at a faster speed compared to traditional metrics

Disadvantages of Altmetrics

- statistics from social media can be manipulated by services selling likes, tweets or blog mentions
- a highly cited output on social media does not entail its approval, negative criticism may be applied
- creator's popularity can affect positively the amount of citations that receives

Scimago Journal & Country Rank

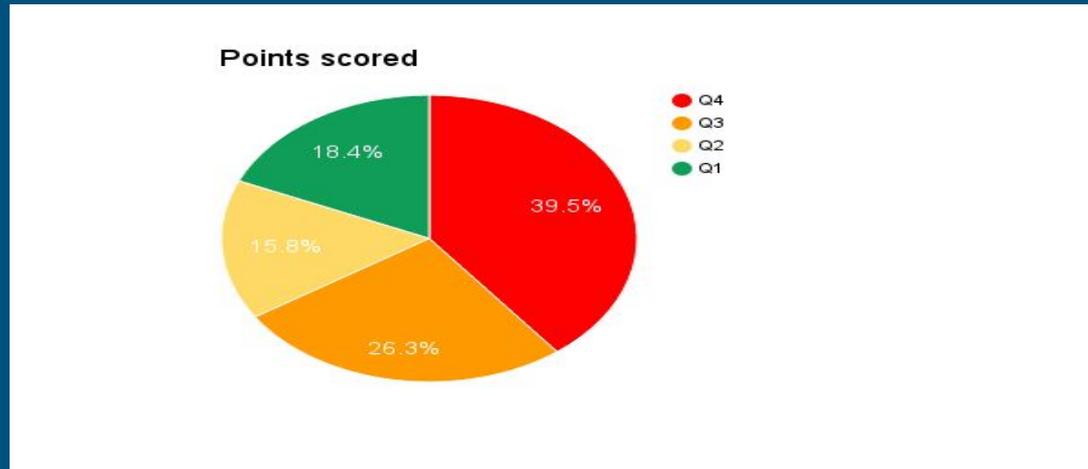
The SCImago Journal & Country Rank is a publicly available portal that includes the journals and country scientific indicators developed from the information contained in the Scopus database.

The logo for Scimago Journal & Country Rank (SJR) consists of the letters 'SJR' in a bold, white, sans-serif font, centered within a solid orange rectangular background.

SJR

The Journal Rankings of Scimago

In particular, the Journal Rankings of Scimago provides the SJR indicator of 38 open access journals:



The Country Rankings

The Scimago also provides informations about the derivation of the journals:

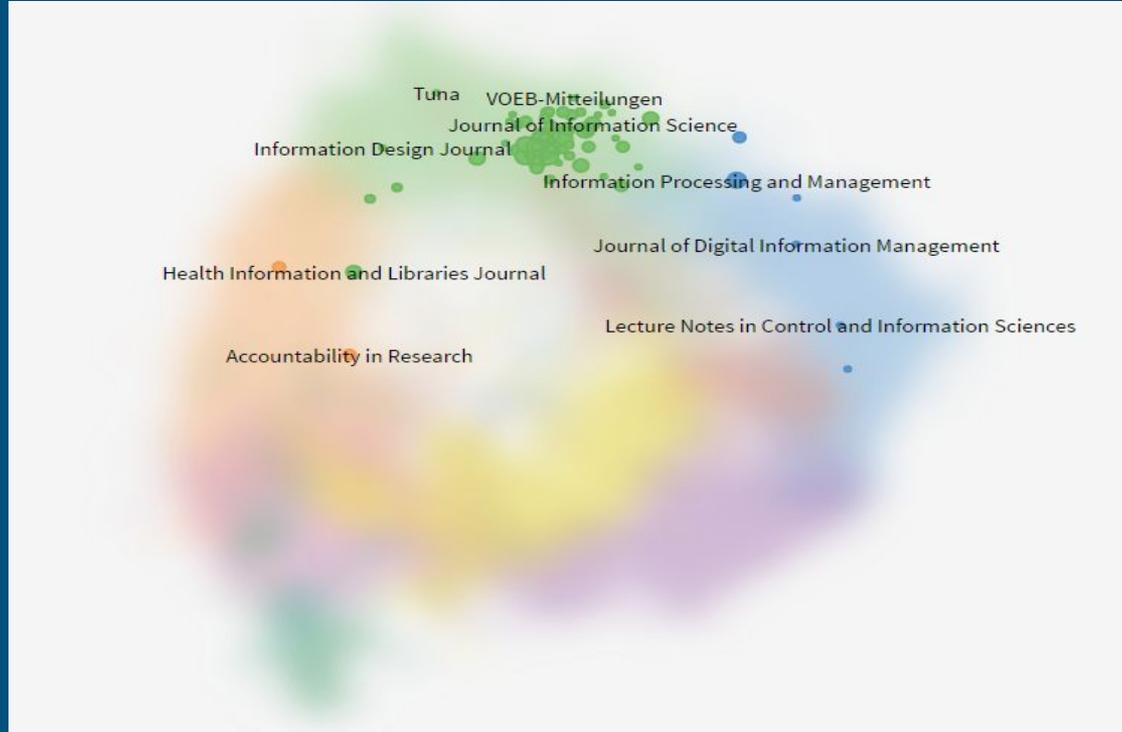
- The majority of the journals of the field "Library and Information Science" are from USA, and consequently, have the most citations (more specific USA has 45.047 documents with 531.923 citations)
- The second country of the list is United Kingdom. A country that has a tradition in this field with 10.203 documents and 97.932 citations the last nine years.
- The list goes on with others countries such as China, Canada, Germany and Spain.

A very important information that a user would find in the Scimago Country Rankings is the category, citations per document, because the documents and the citations are not identical.

Instances:

- Switzerland has only 1.110 documents but has 21% citations per document.
- China is the third country in the rank of documents (7.902) but has just 3.56% citations per document

Visualization of impact in LIS journals via viz tools of scimagojr



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Thank you!