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Emerging tools for research evaluation session
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Title:

RESEARCH EVALUATION WITHIN A NEW ERA. NEW CHALLENGES TO DETERMINE BENCHMARKS AND REFERENCE VALUES

Abstract:

A present bibliometric evaluation of (research) organizations leans heavily on the classification in bibliographic databases (e.g., Web of Science, Scopus). In these databases a classification scheme is primarily based on journals. Groups of journals designate fields and these fields are used to normalize citation impact scores of organisations. It has been argued by many that these reference values have serious flaws. Fields are often too broad or are problematic as such (e.g., multi-disciplinary).

As we seem to be approaching an era in which journals may not be the core medium to publish research outcomes, this issue becomes an even bigger challenge.

Bibliometric mapping based on co-word analysis or co-citation analysis has been proposed to meet this challenge but seems as such have its own drawbacks and problems.

In this paper I will put forward an approach that should be able in due time to meet the challenge and propose a better method to create reference values and to identify benchmark institutes or potential collaborators. We will propose a methodology to create dynamic reference values. These values will not depend on journals and journal categories. In fact it creates a context for each individual paper which can be used to define fields and thus to create reference values and context.

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