

Lecture Series "Science of Science in the Spotlight"

Building reliable bibliometric indicators for measuring research performance

Tuesday April 28, 2020
17.00 – 19.00

Remote Session

Registrations by
email : **scisci@uni.lu**

ABSTRACT

This talk deals with the challenge of building and using bibliometric indicators in an evaluative context. The aim is to show how valid metrics for scientific information and research assessment can be developed and applied and what the main possible pitfalls in this process are. The talk is organized in seven chapters proceeding from the 'perspective change' that scientometrics has undergone in the last decades of the 20th century and the strong interaction between metrics and information retrieval. The first two chapters deal with the use of suitable data sources and the quality and cleanness of data, including data retrieval and subject delineation. The following three chapters deal with methodological issues and are devoted to the explanation of important criteria of soundness of methodology, the discussion of the effect of subject granularity and aggregation level and finally to the extension of traditional indicators towards performance profiles. Special focus is laid on the use of composite indicators, notably in the context of ranking exercises (sixth chapter). The last chapter introduces the challenge of measuring impacts beyond scholarly communication including issues regarding the appropriate integration of data originated from heterogeneous sources.



SPEAKER

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