

Keynote Speech IV

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Title: Analysing Mega Journal Article Impact with Contrimetrics

Abstract

This study examines the utilization of Contrimetric, as established by Kuo (2023), in assessing the impact of individual research papers on the Journal Impact Factor (JIF). The Article Contribution to Citation Impact (ACCI) score is utilized to measure an article's influence in comparison to the journal's average citation performance. ACCI is calculated using the formula $ACCI = (C_y - JIF_y) / JIF_y$, where C_y denotes citations in the Journal Citation Reports (JCR) year and JIF_y signifies the journal's Journal Impact Factor (JIF). This metric distinguishes papers that positively influence the journal's reputation from those below average. This research has two main objectives: (i) to assess the contribution of articles in mega-publications based on ACCI and (ii) to examine the advantages of ACCI for these journals. The analysis will be based on data collected from separate mega-journals available in the most relevant bibliographic databases and alternative metrics. Different methods will be explored to establish the relationship between ACCI scores and different publications' attributes, including regression and clustering analyses. The study will evaluate how journals might utilize Contrimetric to enhance performance in soliciting submissions and improving reputational outcomes. Potential obstacles, including discipline-specific citation standards and excessive dependence on citation-based metrics, will be examined, with robustness tests confirming the veracity of the findings. This study seeks to enhance the comprehension of article impact within the framework of multidisciplinary mega-journals.