

"A man is
great by
deeds, not by
birth"
-Chanakya

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**Reimagining Bibliometric Analysis - A Novel Deep
Learning Framework Bridging the Pitfalls**

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Reimagining Bibliometric Analysis - A Novel Deep Learning Framework Bridging the Pitfalls

Abstract:

The high volume of research publications is causing the time and effort researchers must invest to conduct a comprehensive literature review to grow exponentially. Recent research has highlighted the need for computational literature review to augment human tasks. Bibliometric review is a type of computational and domain review offering meaningful insights from a large corpus of articles. But the techniques listed as part of the bibliometrics review have several shortcomings, including the inability to standalone identify emerging themes in literature review. To address these shortcomings, we propose a smart literature review framework named Thematic Review with Inbuilt Validation (TRIVAL). We demonstrate that TRIVAL can improve, if not substitute, bibliographic coupling, co-word analysis, and co-citation analysis, thereby contributing to the knowledge of the computational literature review. It will augment the interpretive analysis of the researcher, within each theme, to generate novel theoretical insights.



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