A Comprehensive Scientometric Evaluation of the Field of Information Literacy Using Hybrid Bibliometric and Full-Text Lexical Analysis Methods

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ABSTRACT

In scientometric studies, hybrid approaches (i.e., the combination of traditional bibliometric techniques and lexical analysis methods) are used to investigate fields of research. With the increasing availability of full-text documents in machine-readable formats, advanced techniques (e.g., natural language processing [NLP]) are becoming common practice. Numerous bibliometric analyses have been conducted in the field of information literacy (IL). However, the majority of these investigations focus on citation metadata, while some incorporate lexical analyses of titles and abstracts.

The purpose of this dissertation work is to contribute to existing scientometrics knowledge of the IL field using novel and advanced hybrid methods. The primary goal is to examine IL holistically, using both bibliometric techniques and full-text lexical analyses. The study aims to answer the following research questions: 1) What are the most important historical publications in the IL field?; 2) What are the intellectual and collaborative structural configurations of the IL field?; 3) To what extent are the structural configurations enhanced by lexical analysis?; and 4) How has the field of IL evolved over time with respect to seminal concepts and vocabulary?

This poster presents findings from preliminary analyses. Citation metadata and full-text documents were collected from Web of Science (WoS), Scopus, and Google Scholar. The methods used include reference publication year spectroscopy (RPYS) to establish the historical roots of the IL literature, co-word analysis to map the intellectual structure of the IL field, and co-authorship analysis to analyze the collaboration networks of IL researchers.

ALISE RESEARCH TAXONOMY TOPICS

bibliometrics; informetrics; information literacy

AUTHOR KEYWORDS

scientometrics; citation network analysis; lexical analysis; reference publication year spectroscopy; co-word analysis; co-authorship analysis