CHAPTER I

INTRODUCTION

1.1 Research Background

In the current digital information era, the number of article publications regarding the impact of blockchain continues to increase rapidly in various scientific disciplines. However, while access to information is becoming easier, a major challenge facing researchers is the ability to navigate and understand the ever-growing body of literature. In this context, article mapping becomes increasingly important to understand research trends, topic tendencies, and interconnections between studies conducted in a particular field. A number of studies have carried out mapping of blockchain impact article in various fields, such as health article and supply chain article.

Article mapping by Rejeb et al. (2021) is one that carries out article mapping that uses bibliometric analysis and visualization to reveal the latest developments, dynamics and discussions regarding the impact of blockchain technology on the health sector. In their mapping, Rejeb et al. conducted a series of bibliometric analyzes of 626 pieces of literature taken from the Web of Science (WOS) database. This analysis includes scientific production, patterns of development in the number of authors each year, as well as identification of productive academic institutions, countries and leading authors. In addition, keyword co-occurrence analysis was also carried out to identify hotspots and key future research trends in their mapping.

Apart from article in the health sector, article mapping was also carried out in supply chain article. As in article mapping by Shoaib et al. (2023), they discuss

a bibliometric study of the impact of blockchain on supply chains. This study uses knowledge-based visualization techniques to create a vision beyond other reviewed studies on blockchain-based supply chains. They used bibliometric and network analysis to synthesize previous literature. A total of 431 articles in the period 2017 to April 2022 from the Scopus and Web of Science databases were analyzed after applying search string, inclusion and exclusion criteria. Basic information is taken from initial data screening; then, the data were analyzed based on co-occurrence, bibliographic merging, citation, co-authorship, and co-citation analysis. The analysis was carried out using VOSviewer software. In addition, a thematic analysis was carried out to analyze the content of previous research, research methods adopted, and industry dynamics in the literature. In addition to all this, they also identify various research gaps and propose research directions for future research.

These two mappings highlight the importance of article mapping for understanding current research trends, identifying areas that need further research, and formulating research directions that are relevant and useful for the future. It also helps to build a solid knowledge base and stimulates collaboration between researchers across disciplines. This will enrich understanding of the article's development potential regarding the impact of blockchain technology and encourage innovation and progress in various sectors. Mapping of blockchain impact article was also carried out on article in the audit field, especially in the audit profession.

Article mapping by Lombardi et al. (2022) present a systematic literature review, including content and bibliometric analysis, regarding the impact of

blockchain technology in auditing, to identify trends, research areas, and set an agenda for future research. Analysis was carried out using VOSviewer software to describe between keywords network of the article obtained. They used articles from 2010 to 2020 in accounting articles in the Scopus database, which resulted in 40 articles with blockchain and auditing at their core.

Article mapping by Lardo et al. (2022) that articles understand the production and distribution of research documents spatially and temporally, highlighting the most relevant topics, authors and most influential research. This mapping was carried out using bibliometric analysis of 189 research documents in the fields of business, management, accounting and audit. Data collection and purification was carried out from the Scopus database. Data analysis is based on a hybrid literature review approach using bibliometric descriptive methods, data analysis visualization via VOSviewer software to describe between keywords networks and thematic analysis.

Both articles highlight the importance of bibliometric analysis in understanding the impact of blockchain on the audit profession as well as the identification of trends and research areas resulting from the depiction of between keywords networks. Through bibliometric analysis, this mapping can help in understanding article developments on the impact of blockchain on the audit profession.

1.2 Problem Statement

The problem formulation in this research is:

How does article mapping and visualization of network mapping among keywords relate to the impact of blockchain on the audit profession?

1.3 Research Objective

The aim of this research is:

To find out article mapping and visualization of network mapping among keywords regarding the impact of blockchain on the audit profession.

1.4 Research Benefits

The expected benefits from this research are as follows:

1. Theoretical Benefits

   It is hoped that the results of this research will increase knowledge regarding the development of blockchain's impact on the audit profession, as well as increase insight and inspire readers in finding future research opportunities or ideas, and inspire learning regarding the impact of blockchain in the audit field.

2. Practical Benefits

   a. As one of the requirements that must be met to obtain a bachelor's degree.

   b. This research can be used as a means for researchers to increase knowledge, insight and experience in applying the knowledge gained while studying.

c. This research can be used as advice for the wider community in analyzing the development of the impact of blockchain in life, especially in the field of auditing.

1.5 Writing Systematic

Systematic writing is used to provide a concise and clear picture of the content and structure of this research, so that readers can understand it clearly. This research consists of five chapters which will be described as follows:

CHAPTER I: INTRODUCTION

This chapter contains a general overview of the research topic, which consists of research background, problem formulation, research objectives, research benefits, and writing systematics.

CHAPTER II: LITERATURE REVIEW

This chapter contains a description of the literature review related to the research topic and previous research.

CHAPTER III: RESEARCH METHODOLOGY

This chapter contains the research design, research objects, data sources used, and data analysis methods used.

CHAPTER IV: RESULT AND DISCUSSION

This chapter contains a general description of the research object, an explanation of the analysis results from data collection and discussion.

CHAPTER V: CONCLUSION AND SUGGESTION

This chapter contains conclusions from the results of data analysis, as well as suggestions for further research.