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**Educational Technology Applications for Enhancing Religious and Moral Values in Early Childhood Development: A Bibliometric Analysis**

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## Abstrak

Anak usia dini mengacu pada periode perkembangan penting mulai dari 0 hingga 6 tahun, yang sering dianggap sebagai masa emas karena meningkatnya penerimaan terhadap informasi. Pada fase ini, anak dengan cepat menyerap informasi sehingga memengaruhi pola kognitif dan perilakunya. Menanamkan nilai-nilai agama dan moral pada anak sejak dini sangatlah penting agar hasilnya optimal. Penelitian ini bertujuan untuk menganalisis evolusi nilai-nilai agama dan moral pada anak usia dini dan mengeksplorasi manfaat penggunaan teknologi pendidikan dalam meningkatkan nilai-nilai tersebut. Memanfaatkan analisis bibliometrik, penelitian ini menggali data ilmiah yang diindeks di Scopus, menggunakan aplikasi VOSviewer untuk menggambarkan secara visual jaringan data yang saling berhubungan. Temuan mengungkapkan bahwa integrasi teknologi pendidikan memberikan kontribusi positif terhadap pengembangan nilai-nilai agama dan moral pada anak usia dini, menawarkan banyak keuntungan untuk mengembangkan atribut-atribut penting ini.

**Kata Kunci:** Penerapan Teknologi Pendidikan, Nilai Agama dan Moral, Anak Usia Dini, Analisis Bibliometrik

## Abstract

*Early childhood refers to the crucial developmental period spanning from 0 to 6 years, often regarded as the golden age due to heightened receptivity to information. During this phase, children rapidly absorb information, influencing their cognitive patterns and behavior. Instilling religious and moral values in children from an early age is imperative for optimal outcomes. This research aims to analyze the evolution of religious and moral values in early childhood and explore the benefits of employing educational technology in enhancing these values. Utilizing bibliometric analysis, the study delves into scholarly data indexed in Scopus, employing the VOSviewer application to visually depict the interconnected data network. Findings reveal that the integration of educational technology positively contributes to the development of religious and moral values in early childhood, offering numerous advantages for fostering these essential attributes.*

**Keyword:** Educational Technology Applications, Religious and Moral Values, Early Childhood, Bibliometric Analysis

## Introduction

Instilling religious and moral values in early childhood is a crucial consideration for parents and educators. In the modern era, numerous behaviors among children deviate from these values (Afandi, 2019). Recent issues reflect a negative trend in the decline of religious and moral values, with behaviors such as hate speech, disrespectful language, and imitating negative actions in the child's surroundings (Adiwisatra, 2020). Children begin to imitate various negative things that occur in the surrounding environment, such as hate speech, harsh words, and being impolite when speaking.

Education serves as a vital effort to impart knowledge and understanding of religious and moral values (Ansyah, 2022). It is a process to transfer values, knowledge, and skills to shape an individual's identity with strong religious and moral principles (Avgouleas, 2021). Educators play an active role in cultivating appropriate behavior aligned with religious and moral values, serving as positive examples for children (Alotaibi, 2022). The importance of enhancing the cultivation of religious and moral values in early childhood cannot be overstated (Buchta, 2021). The instillation of religious and moral values in early childhood must be increased and given more attention.

Religious and moral education is a process utilized to instill noble values in children from an early age (Abdullah et al., 2009). This education is essential for all children, regardless of whether they grow up in urban or rural environments (Budiyono, 2019). Educators actively contribute to instilling religious and moral values, particularly in matters of worship, prayer, memorization of short verses, recognition of Arabic letters (*hija'iyah*), and fostering respect for others (Casika et al., 2023). The imparting of these values equips children to fulfill their inherent nature.

Education, as a form of organized instruction, aims to enhance physical growth, intellectual thinking, socio-emotional intelligence, spiritual intelligence, communication skills, and the development of attitudes and behaviors aligned with religious values in a phased manner (Zamry, 2022). Given that early childhood is the peak learning period, children require nurturing and warmth in their developmental process (Dong, 2020). Various forms of media and learning technologies can be employed to improve the cultivation of religious and moral values in children.

One such technological application is the utilization of YouTube for educational purposes (M. Wang, 2023). Through YouTube, educators can enhance the cultivation of religious and moral values in children by delivering instructional content. Numerous aspects of religious and moral values can be effectively taught to children through YouTube videos (Susilawati, 2021). Recognizing the significance of instilling these values in children, this study conducts a bibliometric analysis.

Instilling religious and moral values serves as a foundation for a child's spiritual knowledge (Whyte, 2022). Teachers do not always need to rely on lecture methods to teach these values (Winoto, 2022). With the aid of educational technology, it is

anticipated that religious and moral values in early childhood can be enhanced (X. C. Wang, 2021). Understanding the importance of instilling these values, the researcher conducts a bibliometric analysis on the use of educational technology in improving the religious and moral values of young children (Baas et al., 2020). Through bibliometric analysis, the researcher aims to provide a comprehensive visual mapping of global data. (Donthu et al., 2021).

To achieve the goals of instilling religious and moral values in early childhood, the researcher conducts a scholarly data analysis using bibliometric methods. The analysis will be presented using the VOSviewer application (Kent Baker et al., 2020). This bibliometric analysis is employed to obtain a global and graphical representation of data mapping. The study critically examines data from the Scopus index, including publications in international journals, to provide relevant insights for consideration (Guo, 2023). The obtained data will be transferred into RIS format, facilitating ease of input into the VOSviewer tool.

The bibliometric analysis discussed in this research on the utilization of educational technology to enhance religious and moral values in early childhood will be significantly detailed based on valid data. The researcher has thoroughly explored data published in international journals over the past five years, indexed in Scopus. The findings from this data mapping will be presented significantly and relevantly. Upon completion of this analysis, readers will be able to draw valid conclusions based on the bibliometric analysis technique employed. All data presented in this research can be trusted since the analysis is based on valid information from international journals. The results of the analysis will indicate the objectives of the research, illustrating how educational technology can influence the religious and moral values of children.

## **Methods**

The research methodology employed in this study utilizes the bibliometric analysis technique, which will be presented through the VOSviewer application. To achieve the research objectives, the researcher will conduct a search for international scholarly journals indexed in Scopus (Derviş, 2020). The acquired data will be analyzed and described in a valid manner through relevant data analysis (Kipper et al., 2020). The expectation is that the analyzed data will serve as a reference for educators and parents

regarding how educational technology can influence the religious and moral values of children. The analyzed data will specifically relate to the utilization of educational technology in enhancing the religious and moral values of young children, facilitating input and mapping desired images on the selected device chosen by the researcher.

This research aims to inform parents and educators that educational technology can indeed enhance the religious and moral values of early childhood. The roles of parents and educators are pivotal in the effort to instill religious and moral values in children. To emphasize the importance of utilizing educational technology in improving the religious and moral values of early childhood, the researcher conducts a search for relevant data in international journal indexes (Assa'idi, 2021). After obtaining valid data, the researcher will review and choose to use data from Scopus due to the assurance of its validity and reliability, as Scopus publishes scientific data referencing international journals.

Following the review of data available in Scopus, the researcher will proceed to data processing. Data management will involve extracting data from Scopus, specifically from international scientific journals. The existing data will be processed by converting files into RIS data format for input into the VOSviewer application. VOSviewer will generate data clusters, providing a global mapping overview using various models available in the application (Kokol et al., 2021). The input data will offer a detailed and valid representation, including titles, references, and ensuring the relevance and validity of the input data.

The obtained data, after analysis, will reveal that the referenced data is scientific information published within the last five years. The results of acquiring valid data from relevant sources are critical, and the researcher pays close attention to ensuring the data analyzed and explained in this study originate from publications in international journals. The purpose of managing valid data is to prevent misunderstandings in interpreting the input and analyzed data using bibliometric techniques. Through the gathered and processed data, the researcher has discovered that the utilization of educational technology in enhancing the religious and moral values of early childhood is crucial for improving children's understanding of these values. The VOSviewer application serves as a supportive software tool for bibliometric analysis. The graphical data and mapping provide a valid visual representation easily comprehensible to

readers. The consistency in analysis techniques and supportive tools used in data processing is of interest to the researcher for future comparative data analysis.

## **Results and Discussion**

### **Result**

The research conducted by the researcher has reached a stage where the explanation of concrete and valid research results has been achieved. The data used are sourced from index pages and published in international journals (Aziz et al., 2023). The researcher employed bibliometric analysis techniques, focusing on the utilization of learning technology to enhance the values of religion and morality in early childhood. The data presentation involves information traced from international scholarly journal pages indexed in Scopus (Masitah, 2021). The data collected by the researcher are both valid and relevant to the study, as they are extracted from international scholarly journals published in the last five years. Thus, it can be ensured that the input data for this research is valid and relevant to the research focus. The obtained data results in accurate insights into the utilization of learning technology to enhance the values of religion and morality in early childhood.

The presentation of data regarding the utilization of learning technology to improve the values of religion and morality in early childhood indicates that educational technology is one of the mediums that can enhance the cultivation of values in early childhood (Adiwisastira, 2020). As time evolves, changes in the learning process, including efforts to instill values of religion and morality in children from an early age, become crucial (Ahmad Syaiful & Fani Selviani, 2022). One of the learning technologies that educators can use is the application of YouTube. YouTube can be utilized by educators to improve the quality of understanding values of religion and morality in early childhood. The cultivation of values of religion and morality must begin in early childhood to achieve optimal results.

Instilling values of religion and morality in children from an early age brings many positive benefits, especially in their daily lives. One significant benefit of instilling values of religion and morality in children from an early age is to develop the aspects of these values in children. Instilling values of religion and morality in children from an early age can also shape a child's character for the better (Ansyah, 2022).

Children will learn about values such as honesty, kindness, patience, and responsibility. This helps children become responsible individuals with empathy and respect for others. Through the use of educational technology, educators can also teach and instill worship values in children.

To materialize the results of bibliometric analysis on the utilization of learning technology to enhance the values of religion and morality in early childhood, the researcher conducted a data processing study (Aseery, 2023). The data examined by the researcher will be analyzed using bibliometric analysis techniques, focusing on data obtained from international scholarly journals indexed in Scopus. The presented data are valid and relevant concerning the utilization of learning technology to enhance the values of religion and morality in early childhood. The research data obtained can be considered as reference material and can be used for future research. The results of the obtained data will be discussed, and the data will be transferred into the RIS data format, which will be presented and depicted using the supporting VOSviewer application. Overview of Bibliometric Analysis Results on the Utilization of Learning Technology to Enhance the Values of Religion and Morality The researcher has obtained an overview of the inputted data that has been analyzed and will be discussed below.

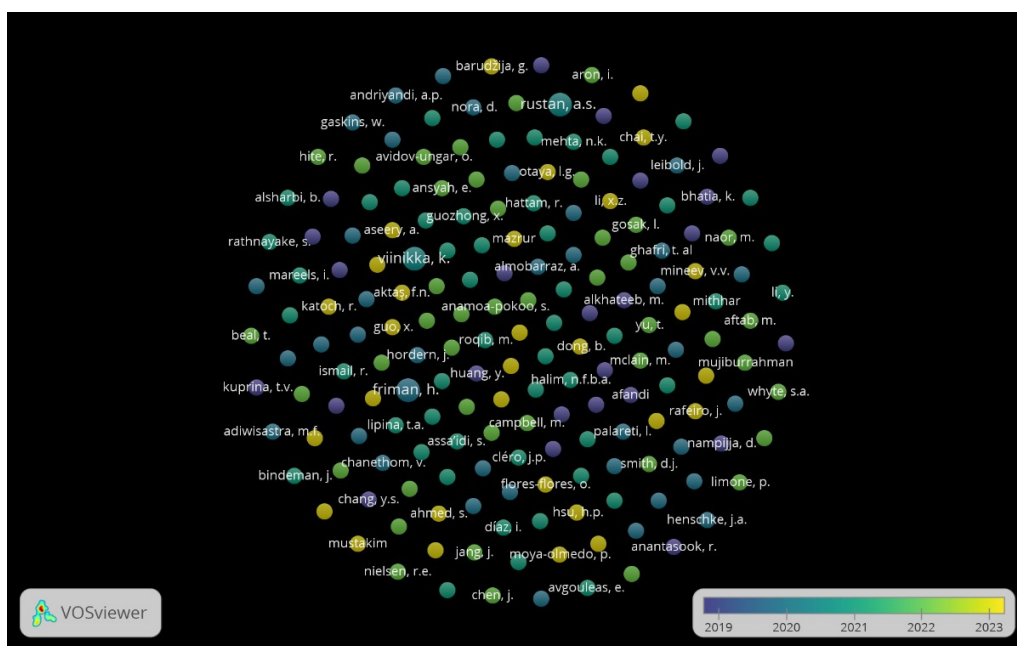


Fig 1. Based on The Keyword



The subsequent discussion is about the comprehensive and specific bibliometric analysis of the utilization of learning technology to enhance the values of religion and morality in early childhood, specifically regarding the benefits of educational applications in developing the aspects of these values in children. The researcher obtained this data through a search of scholarly data available in Scopus, with 232 scholarly data referencing international journals. Based on the references from international journals obtained by the researcher, it is known that the data presented by the researcher is valid and relevant to the research focus. From the 232 international scholarly journals found by the researcher, there are 10 cluster groups categorized in each utilization of learning technology to enhance the values of religion and morality in early childhood. From the mapped cluster groups shown above, it is understood that the utilization of learning technology can be an effective tool in enhancing the values of religion and morality in early childhood. One of the learning applications that can be used is the YouTube application, through which educators or parents can showcase digital content using animated videos. Through the use of animated videos, educators can instill worship values in early childhood by providing educational videos on correct and appropriate prayer movements and recitations. Educators can also teach children to memorize short prayers and introduce them to the Arabic alphabet through YouTube videos. By using this application, educators can enhance the aspects of religious and moral values in children. Children will not easily get bored during the learning process, as they will be entertained by the video content provided by educators. By getting children accustomed to watching digital animation content with worship values, their ability to worship will improve.



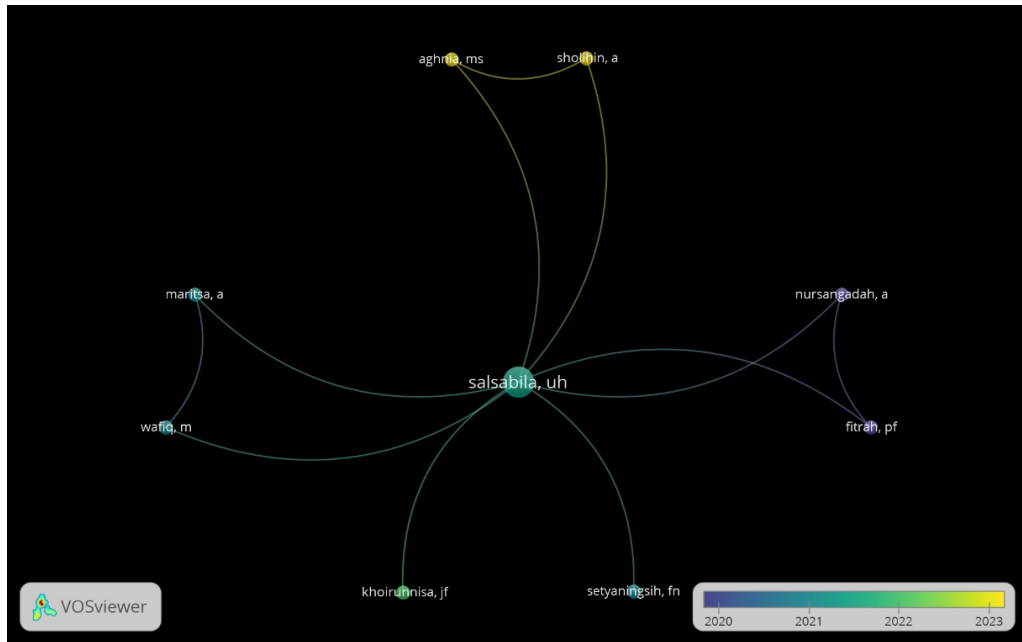


Fig 2. Based on The Author

Next, the researcher will explain the utilization of learning technology in enhancing the values of religion and morality in early childhood, based on the mapping of the figure above. The results from the mapping shown above were obtained by the researcher through the exploration of scholarly data available in Scopus, followed by the transfer of RIS data using the VOSviewer application, forming a network of data called cluster groups. The data obtained by the researcher are valid and relevant because the researcher conducted a search for international scholarly journals published in the last five years. From the data search conducted by the researcher, there are 172 international scholarly journals published in Scopus. Out of the 172 data found by the researcher, there are 10 cluster groups, each focusing on the utilization of learning technology to enhance the values of religion and morality in early childhood. Based on the mapping above, it is understood that through the utilization of learning technology, the development of religious and moral values in children can be improved. Through the use of educational applications and games, educators can strengthen the relationship between children and their spiritual beliefs. Consequently, educators can develop other religious and moral values in children, teaching qualities such as honesty, humility, mutual respect, and gratitude for the blessings bestowed by a higher power. Through the use of educational applications and games, the formation of a strong bond between

children and their spiritual beliefs will provide a sense of peace, faith, and fear of deviating from religious and moral values.

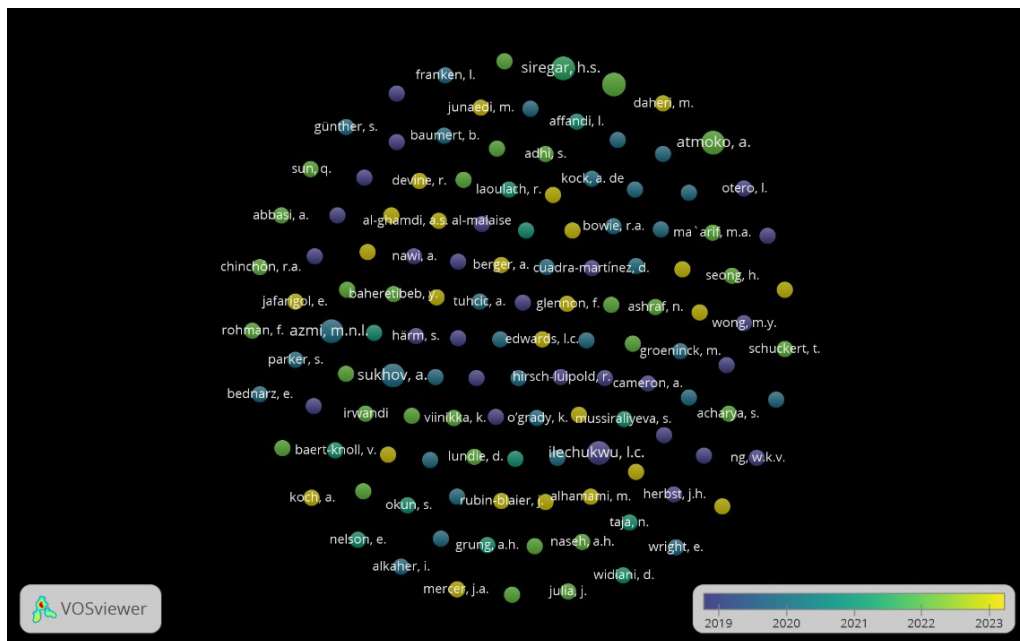


Fig 3. Based on The Keywords

Further discussion involves mapping the data results related to the title of the research on the utilization of learning technology to enhance the values of religion and morality in early childhood. The mapping of the figure above was obtained through a search of international scholarly journals in Scopus. From the data search, there are 252 international scholarly journals referencing the research title, namely bibliometric analysis of the utilization of learning technology to enhance the values of religion and morality in early childhood. Out of the 252 international scholarly journals found by the researcher, there are 10 cluster groups, each already categorized. Based on the mapping above, it is understood that instilling values of religion and morality is crucial to developing from early childhood through the utilization of learning applications. Through online learning platforms providing educational material on values of religion and morality for early childhood, children can access learning material tailored to their needs. Children can learn through videos, images, or illustrated texts provided by the platform. Through the utilization of learning technology to enhance the values of religion and morality in early childhood, children's understanding of ethics, the formation of tolerance, emotional intelligence development, social responsibility formation, and improvement in worship abilities can be achieved.

## Discussion

This study has advanced to the point of producing definite and valid research findings. The data used is derived from indexed pages and international journals. The researcher investigated the role of educational technology in improving young children's religious and moral values using bibliometric analysis methodologies. The information in the data presentation came from international scholarly journals that were indexed in Scopus. The researcher assures the use of reliable and relevant data by obtaining information from worldwide papers published in the recent five years.

The presenting of data on the use of educational technology in boosting young children's religious and moral values reveals that educational technology is a beneficial instrument for imparting these qualities. As societal changes impact educational processes, such as efforts to teach religious and moral values in children at a young age, the use of educational technology becomes increasingly important (Bhatia, 2019). YouTube is one such tool that educators can use to improve young children's knowledge of religious and moral principles (Campbell, 2022). The researcher highlights the importance of imparting these principles at a young age for the best benefits.

The talk goes on to highlight the benefits of establishing religious and moral ideals in young children. It emphasizes the need of instilling values such as honesty, kindness, patience, and responsibility in children (Guo, 2023). This process contributes to the development of responsible individuals who have empathy and respect for others. The use of educational technology, particularly applications such as YouTube, enables instructors to successfully teach and instill religious beliefs (Huda, 2020).

The researcher did a data analysis study to realize the results of the bibliometric analysis about the use of educational technology in developing the religious and moral values of young children. The data evaluated were collected through a Scopus search of worldwide scholarly journals. Because the data was gathered from worldwide journals published within the recent five years, the researcher highlights its authenticity and relevance (Ismoilova, 2020).

The presentation of bibliometric analysis results, displayed in figures and clusters, is included in the discussion. The first diagram depicts keyword-based clusters, which provide an overview of the research landscape. The second image organizes data by author, providing insight into the people who have contributed to this field of study

(Juzwik, 2022). The third image displays data in the form of words, providing a thorough picture of the terminologies related to the research issue (Kamaludin, 2021). According to the findings, using instructional technology effectively improves children's religious and moral growth. YouTube, in particular, appears to be an excellent method for educators and parents to disseminate digital content, particularly animated films, in order to impart religious beliefs (Kokol et al., 2021).

The discussion finishes by underlining the importance of early instillation of religious and moral ideals, which is corroborated by the bibliometric analysis results. The results given show data clustering into relevant groups, indicating the efficiency of educational technology in boosting young children's religious and moral beliefs. The debate emphasizes the importance of applications and educational games in building children's spiritual connections, creating tranquility, belief, and a sense of reverence toward moral principles (Ahmad Syaiful & Fani Selviani, 2022).

### **Conclusion:**

In conclusion, the research analysis on the utilization of learning technology to enhance the values of religion and morality in early childhood provides valuable insights. From the conducted analysis, it can be inferred that learning technology plays a pivotal role in advancing the development of religious and moral values in young children. The effective and appropriate use of learning technology makes it easier to instill values of religion and morality in early childhood. By employing suitable learning technology, children can engage in learning about religious and moral values in an interesting and interactive manner. This enhances their interest and understanding of these values, allowing them to internalize them into their daily lives. Instilling values of religion and morality in children from an early age contributes to their growth as individuals with positive traits, understanding of ethics, strong connections with their spirituality, tolerance towards differences, good emotional intelligence, and social responsibility. In essence, the judicious use of learning technology in early childhood education facilitates a more effective and engaging approach to instilling values. This not only benefits the individual child but also contributes to the cultivation of a generation with strong moral foundations and a sense of social responsibility.

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