Research Article

Knowledge Map of Gender Equality in Cross-generational Awareness for Education: A Bibliometric Approach

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Abstract.
The issue of gender in global cross-generational consciousness must be urgently addressed. Gender equality (Sustainable Development Goal 5 or SDG5) should be the responsibility of all countries around the world. As a result, this study intends to draw a map of knowledge on gender issues in consciousness across generations to investigate the state of research and future possibilities. This study aims to build a knowledge map that provides a comprehensive understanding of gender issues in awareness across generations. Vosviewer was used to perform bibliometric techniques on 370 English articles from Scopus on cross-generational awareness and gender equality themes. The study emphasizes the continued focus and upward trend of publications after cluster analysis and time series analysis and outlines the important authors, and research countries on the issue. The US has made significant contributions and influenced the UK and Australia. Gender, generation, gender equality, awareness, generational differences, gender issues, culture, education, gender inequality, feminism, health equity, diversity, social psychology, policy, and sustainable development are some of the groups of terms generated by the author’s collaboration. As a result, the conclusions propose that research on gender issues could be expanded to include more authors, fields, subjects, and other diverse cooperative sectors. The implications of this knowledge mapping go beyond academia, holding practical and policy relevance, especially regarding gender equality and cross-generational awareness. This study is critical to inform future policies and practices aimed at fostering inclusivity and equality across generations.

Keywords: bibliometric analysis, cross-generational awareness, education, gender equality

1. INTRODUCTION

Cross-generational awareness, as a core concept of the 21st century, has contributed significantly to the development of the world’s economy, politics, and education [1, 2]. At the same time, it is also an inevitable channel for building a community with a shared future for mankind [3]. The interaction of different races, regions, and year gaps will lead to generational integration [4]. Cross-generational awareness is broad
content which are different groups of human beings from their generational circle to contact other activities, and this process will result in different cognitions, values, and schemes [5]. Through this generational exchange and development, human beings overcome differences and contradictions, achieve generational integration, and reflect the value of cross-generational consciousness.

As one of the main aspects of the SDGs, gender issues are not only becoming a local issue in a particular region but also advocating for more attention to vulnerable groups such as women, children, and sexual minorities around the world. Many industries are trying to solve problems caused by gender issues in business, education, politics, and other aspects. Gender equality and other topics in cross-generational contexts still perform differently in this time of globalization [6]. Today, gender health, education, internet addiction, gender roles, today, social shifts, technological advancements, and evolving cultural landscapes are shaping cross-generational dynamics in unprecedented ways. These transformative forces require closer examination to shed light on the critical nuances that make cross-generational awareness so relevant in our current context. By exploring these trends, we can better appreciate the importance of cross-generational awareness in addressing contemporary challenges and shaping a cohesive future for humanity.

New, and women with less education seem to be more vulnerable to social oppression or internet entry [7]. Therefore, in cross-generational awareness, how to fix gender issues, improve women’s social status, and care about their lives is very important [8]. As leaders in cross-generational awareness, Europe, the United States, and other developed countries pay attention to gender issues in their regions and contribute many achievements to gender research in Asia, Africa, and Latin America [9]. In recent years, with close relations and cooperation between politics, economics, and education, more and more developing countries are also paying attention to gender issues in generational consciousness, especially in Africa and Latin America [10]. There are four criteria for women’s economic activity, political activity, education level, health, and survival [11]. The top five countries doing better gender equality work are Iceland, Finland, Norway, New Zealand, and Sweden [12]. Over the past 13 years, Iceland has consistently taken first place with an average score above 0.9, proving that the country is doing an excellent job in gender equality [13]. In addition, it may take another 132 years to achieve gender equality worldwide [14].

The study of gender issues in cross-generational awareness is essential to solving women's and children's problems and promoting the sustainable development of education, economy, and society [15]. Promoting gender equality in any situation is an urgent
moral and social issue and a critical educational challenge [16]. Global education will also be affected if women, who make up half of the world’s working-age population, do not fully realize their educational potential [7]. Gender inequality in consciousness across generations also indirectly affects investment and population growth [17]. Education problems caused by gender inequality are particularly prominent in East Asia, sub-Saharan Africa, South Asia, and the Middle East [18]. Such analyses are relatively rare in the context of cross-generational mindfulness research. In addition, bibliometric analysis of cross-generational awareness also further proves the importance of studying gender issues [19]. There are still many shortcomings in the bibliometric analysis of consciousness across generations, which only pertains to the analysis of journal literature or other topics [20,21].

Therefore, the study uses bibliometric tools to discuss gender issues in generational consciousness, which is conducive to finding relevant research content and boundaries, thus providing suggestions for future research and other researchers. Gender inequality in consciousness across generations hinders progress in reducing unwanted pregnancies, high fertility, and child mortality, thus undermining a country’s well-being. In societies where women are encouraged to take political leadership positions, cross-generational awareness is more gender-balanced. A growing body of empirical evidence suggests that cross-generational awareness with high levels of gender inequality carries a greater risk of conflict [22]. Therefore, this study conducted a bibliometric visual analysis of the literature in Scopus that also contains cross-generational awareness and gender themes, forming a graph of knowledge on the topic.

The purpose of this study is to describe the sculpture of research on gender issues in cross-generational awareness in the last twenty years (2003-2023), moreover, to better understand what role gender equality and cross-generational awareness play to achieve SDG5.

2. METHODS

2.1. Literature Review

Changes in the landscape of society’s ideas on gender issues and education by exploring the historical foundations of gender equality in education [23]. Examining historical viewpoints can help you understand the current state of gender-related discourse in education [24]. Because historical heritage influences beliefs and actions today, the link between cross-generational awareness and gender equality is clear [25]. Education
researchers, make a difference by researching pedagogical approaches that address gender injustice in education [26]. Cross-generational awareness and gender equality are inextricably linked in pedagogical breakthroughs, as each generation informs and shapes educational practices the next [8].

The seminal contribution is involved in thematic analysis in the discourse of gender equality in education [27]. This method categorizes and analyzes frequently occurring themes, lays the foundation for subsequent bibliometric studies and leads the selection of critical areas of concentration [28]. The interplay of cross-generational awareness and gender equality themes shows the diverse ways people’s perceptions and educational priorities change over time [19]. The impact of the media on public perceptions of gender equality in education by including news sources [24]. Analyzing media narratives broadens our understanding of society’s views by illuminating the interface between scientific discourse and public consciousness [2]. The link between cross-generational awareness and media influence becomes clear as media play an important role in shaping perceptions and understandings of gender equality across age groups [29].

In gender equality research, the relationship between cross-generational awareness and intersectional approaches shows the complex and related nature of people’s views and educational aspirations across different demographic groups. The study aims to contribute to a nuanced understanding of knowledge maps around gender equality in cross-generational awareness in education by integrating insights from academic research and news publications, emphasizing the intricate relationships between historical heritage, pedagogical progress, media influence, policy implications, and intersectionality.

3. Method

Scopus as one of the main bibliographic research databases, contains cutting-edge research in various disciplines and is a high-quality tool often used in bibliometric analysis. The research period is the last two decades. Based on the results of the study after 2018, this study used the advanced search feature in Scopus and ran the output of the three search formats shown below. The first search step (1) requires that the subject of the literature include cross-generational awareness of the English article. The second search method (2) requires that literature subjects include cross-generational awareness and gender articles in English. Articles selected in previous searches are removed from the list of 890 results. The last search step yields 370 results.
Van Eck and Waltman created VOSviewer in 2009 to create a network map of parameters based on a matrix of shared events, such as author, journal, and keywords. It can display maps in a variety of formats, including network view, overlay, and density. We use VOSviewer for keyword co-occurrence analysis to show how keywords evolve over time and how much attention they receive. Vosviewer, as one of the main tools for visual analysis of knowledge graphs, has made important contributions to analyzing research status and trends in various domains. The study imported this data (370) into Vosviewer, and then examined 370 results for knowledge graph analysis. This includes debates about timing, authors, institutions, and keywords to reveal the current state and future direction of gender research in consciousness across generations. Based on the publication, the keywords used to conduct studies on several categories of clustering and time series analysis are TITLE-ABS-KEY (cross AND generational AND awareness AND gender AND education).

4. RESULTS AND DISCUSSION

4.1. RESULTS

Scopus conducted an annual study of 370 findings and found that the number of published items has gradually increased each year since 2018, as shown in Figure 1, from 2015 (14) to 2023 (54). In recent years, the study of gender in a cross-generational context has flourished in academia, and many results have helped in the advancement of this research. The number of related posts may surpass 54 by the end of the year. As a result, the study of gender issues in a cross-generational context is in line with current research hotspots and trends. These findings reflect the important role of gender issues in cross-generational awareness for human social development, and looking at gender issues through the lens of consciousness of a new generation further contributes to solving gender-related social issues around the world and encourages the recognition of SGD5 (gender equality) [30].

Countries were sorted by number of publications released, and the top ten were selected for the study (Figure 3). The United States (141), the United Kingdom (47), and Australia (25) are the top three countries in terms of the number of papers published. These three countries are responsible for 57.6% of all publications. France (14), Germany (14), and Italy (14) chose to collaborate with other countries on research. Results show that these three countries publish high-quality literature that has great influence in these and other fields. Canada and Spain, the top two countries in terms of overall number of
Figure 1: Annual publication towards cross-generational awareness and gender equality research.

publications, garner far less attention. Figure 2 shows the ten most productive countries in the areas of cross-generational awareness and gender equality in education.

Figure 2: Most popular countries in cross-generational awareness and gender equality research.

Most popular countries in cross-generational awareness and gender equality research
Figure 3 illustrates four groups of keywords, the 15 most frequently used are gender, generation, gender equality, awareness, generational differences, gender issues, culture, education, gender inequality, feminism, health equity, diversity, social psychology, policy, and sustainable development. The width of the network line represents the intra-relationship between the terms, that is, the thicker the network line, the stronger the association.

![Network Diagram]

**Figure 3:** Typical wireless sensor node architecture.

Figure 4 illustrates bibliographic analysis and co-emergence visualization using VOSviewer, respectively. Each keyword has been cited more than twice in the overlay visualization. This criterion results in the identification of a minimum of twenty keywords. The strength of the nodes is indicated by the breadth of the network lines. Varying color patches distinguish different keyword clusters. The most popular keyword is generation.

5. Discussion

The study provides a thorough bibliometric analysis of the current state and trends in the areas of cross-generational awareness and gender equality. From 2003 to 2023, there has been a significant increase in the amount of cross-generational awareness and literature related to gender equality, especially in the last ten years. The United States, the United Kingdom, and Australia emerged as prolific literature creators in this area in quantitative assessments of major research contributors; Nevertheless, the latter two are relatively low for international partnerships and literary impact. We found that
the areas of cross-generational awareness and gender equality have not created a clear core group of academics by quantitatively assessing academic outcomes from publications, authors, and collaborations.

Cross-generational awareness is almost an issue in the process of building the current community around a shared destiny for education [31]. Gender equality, awareness, generational differences, gender issues, culture, education, as well as their importance to the evolution of the times, have long been major themes in scientific research. Gender issues will definitely be covered in generational consciousness as they are an important component of SDG5 [32]. As a result, the research is simply a study of gender equality in cross-generational awareness, revealing the critical areas involved with this topic between 2003 and 2023, as well as the status of relevant studies, providing more ideas for cross-generational awareness and gender equality research, and directing a specific direction. Although bibliometric analysis of cross-generational awareness has made some progress, the research content is straightforward, mostly from an educational standpoint, and rarely includes gender issues[21]. As a result, these findings offer new implications for long-term development.

6. Conclusion

According to this bibliometric analysis, the field of cross-generational awareness and gender equality is in the early stages of rapid research development. Theories and practices regarding cross-generational awareness and gender equality measures had
evolved over the previous two decades. Current hotspots are gender, generation, gender equality, awareness, generational differences, gender issues, culture, education, gender inequality, feminism, health equity, diversity, social psychology, policy, and sustainable development. The study sets the groundwork for future studies, adding to a growing story of cross-generational awareness and gender equality research. The findings could be used to drive future research into prevention strategies, thereby influencing the landscape of awareness across generations, gender equality and education.

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