A close-up of bibliographic coupling on organizational communication in sports research

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ABSTRACT

The emergence of sport sociology related to sport and communication spurred a gradual entry into academic research. This study uses bibliometric analysis of bibliographic coupling, a phenomenon that occurs when two texts quote the same source. The purpose of this study is to explore publishing trends using the unit of analysis bibliographical coupling on organizational communication in sports. The results indicated that 419 publications had been indexed in the Scopus database between 1981 and 2022. Articles were the most common document published in the database, accumulating 265 papers. Social Sciences is the most significant subject area, with 214 records. A paper written by Winand et al. in 2019 entitled “International sports federations’ social media communication: A content analysis of FIFA's Twitter account” has become a document that obtained more citations accruing a total strength of 91. Notably, this analysis alludes that the International Journal of Sport Communication has become the most multiple credentials, with 240 citations. Two scholars, Anagnostopoulos, C. and Chadwick, S., were credited as successful authors. Griffith University, from Australia, advanced 67 citations. The United States became the leading country with total link strength of 3876. It can be concluded that research on this topic is expanding due to the empowerment of research methodologies and the development of new research contributions in the form of new avenues. Researchers and practitioners can increase future understanding in this field by thoroughly examining sports communication in numerous research areas.

Keywords: Bibliographic coupling; bibliometric; organizational communication; publication trends; sport

Tampilan close-up penggabungan bibliografi pada komunikasi organisasi dalam penelitian olahraga

ABSTRAK


Kata-kata kunci: Bibliometrik; komunikasi organisasi; olahraga; penggabungan bibliografi; tren publikasi

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INTRODUCTION

People today reside in the big data era. Big data has a profound impact on every element of human life. For instance, governments worldwide have used data collecting and analysis to fight the Covid-19 outbreak. Contact tracing and hotspot identification would now have been conceivable with big data. However, Industry 4.0 is still in its infancy in society. Big Data and the Internet of Things will influence the future in ways that are currently unthinkable. One of those affected is the sports sector. Humans use sport as a drug and opium to satisfy specific needs in life, including those related to entertainment, economics, social life, and health (Sofyan, Abdullah, & Hafiar, 2022).

The sports industry is not exempt from crises that may harm a company’s standing with its stakeholders and ability to conduct business (Jordan & Smith, 2013). The economy benefits significantly from the sports industry in terms of trade, investments, taxes, and employment. Most nations are engaged in athletic competition with one another (Mishra, Sharma, & Kamalanabhan, 2016).

Modern sports have developed into powerful magnets in the joints of human living (Sofyan, Saputra, Nurihsan, & Kusmaedi, 2021). The field of communication explores how individuals create meaning via verbal and nonverbal cues in various contexts, cultures, media, and channels. Since the philosophical perspectives that serve as the foundation for communication study might be in conflict or work in concert, there is no comprehensive definition of communication as a discipline. Thus, philosophical viewpoints are the cornerstone for how communication researchers position messages to mean and receivers to senders (Keyton, 2017). Sometimes the message is not conveyed entirely because the meaning changes due to the addition or subtraction of information. Choosing how much communication should take place between coworkers is crucial in organizations. Although much theoretical work has focused on this issue, empirical research on organizational communication has fallen behind (Battiston, Vidal, & Kirchmaier, 2020).

Understanding the concept of decent organizational communication is crucial since it is a part of the superiority of corporate sectors. Once the appropriate communication medium between organizational elements has been used, a significant rapport between organizational communication and performance is gradually improved (Haroon & Malik, 2018). Notably, the modern corporate environment has diversified; therefore, its environmental and communication processes have become more complex or multifacets (Cetin, 2020). This matter is not exempted in sports organizations and has become a new
challenge to this circumstance (Nicholson, Kerr, & Sherwood, 2015; Winand, Belot, Merten, & Kolyperas, 2019).

In handling complex internal communications, particularly in the sports industry, an important consideration should be given to organizing more team social activities for players and personnel. It can be accomplished by incorporating a more systematic analysis of team performance for players and coaching staff, by incorporating a variety of training sessions in anticipation of the participation of players and coaching staff, and by encouraging communication between players and senior staff (Rumbold, Fletcher, & Daniels, 2018).

Social media is one of the tools used in organizational communication in sports. However, studies on organizational communication in sports are still limited and have developed much in the media aspect. More research on social media and its impact on the sports industry is needed (Abeza, O’Reilly, & Reid, 2016; Abeza, O’Reilly, Seguin, & Nzindukiyimana, 2017; Filo, Lock, & Karg, 2015).

Mobile media sports require more attention from academics that study media sports (Hutchins, 2019) effects, and meanings of mobile media and communications. This situation is partly explained by the fact mobile media encompass practices, technologies, and markets that are grounded historically in the telecommunications and information technology industries, which sit apart from the broadcast (radio and television. The media has been discussed as a valuable conduit capable of fostering deep connections between two parties in the literature on the use of social media in sports marketing (Abeza, O’Reilly, & Seguin, 2019; Hambrick & Kang, 2015).

The purpose of the current study was to 1) assess publishing trends; 2) explore information about bibliographic coupling, which is the linking of documents that refer to a group of documents cited and used to compare citing articles; and 3) examine information about organizational communication in sports. Parameters are determined by researchers, of course, with various considerations. Publication trends are determined by the distribution of the article’s publication and the peak year of the research. The next researcher can do this by analyzing the bibliometric by year. On a citation approach, a bibliometric analysis of the subject with a focus on bibliographic coupling has been conducted (Boyack & Klavans, 2010) we use innovative full-text citation analysis along with supervised topic modeling and network-analysis algorithms to enhance classical bibliometric analysis and publication/author/venue ranking. By utilizing citation contexts extracted from a large number of full-
text publications, each citation or publication is represented by a probability distribution over a set of predefined topics, where each topic is labeled by an author-contributed keyword. We then used publication/citation topic distribution to generate a citation graph with vertex prior and edge transitioning probability distributions. The publication importance score for each given topic is calculated by PageRank with edge and vertex prior distributions. To evaluate this work, we sampled 104 topics (labeled with keywords; strategic management ability (Vogel & Güttel, 2013); business model (Belussia, Orsi, & Savarese, 2019). The more related the two papers are, the higher the value of the bibliographic coupling strength (Habib & Afzal, 2019).

This study unequivocally establishes the bibliometric review approach value. The information in this study is relevant to providing readers and academics with a trustworthy overview of organizational communication in sports and inspiring them to conduct more in-depth research on this significant subject. Particularly in providing research on interpersonal and intrapersonal connections from all organizational angles.

**RESEARCH METHOD**

This study employs bibliometric analysis, a robust metrics study favored by a growing number of experts and is credible. Building a system for analyzing research in the literature and finding publication patterns and trends has proven to be reliable with bibliometric analysis. The bibliometric review summarizes the vast corpus of scientific literature in this context and is crucial for academics to make well-informed decisions. An in-depth analysis of the study materials and chosen themes is also beneficial for scholars.

This study uses the well-known database Scopus to analyze current growth and trends in organizational communication research in sports. As such, it highlights the value of reviews in detecting problems and points the way forward for scientific research. The research objectives, which include evaluating the effects of publications, fields of study, authors, sources, and institutions by country based on the selected database, are also relevant to this study.

Due to the proliferation of studies in all areas of knowledge, bibliometric reviews are growing in popularity. The popularity is perhaps to locate and evaluate research by creating a system for analyzing the literature to perceive publication patterns and trends (Aziz, Harith, Abdullah, & Sofyan, 2022) so they rely on each other’s empathy and compassion and not be self-centered. Therefore, it is essential to promote the ethics of road safety and road users’ exemplary behavior upmost. This review
analyzed the publication trends and thematic evolution of road user behaviour over 47 years from 1973 to 2020. The assessment uses the Scopus database and various bibliometric indicators, such as output growth trends, eminent countries, research hotspots, and author keywords. Also, this study presented a graphical visualization of bibliometric indicators using a VOSviewer. Another bibliometric software tool, known as SciMAT, was used to inspect road user behaviour research’s thematic evolution. The verdicts revealed that the number of publications increased exponentially, starting in 2005 with a hike in publications in 2020. Road user behaviour researches were diverse by examining the various research hotspots. This review also focuses on several themes and dimensions of road user behaviour research. The essential motor theme during the first period (2005-2012. This technique benefits tracking research performance and scientific progress and supports relevant policy measures (Abdullah & Sofyan, 2022).

Prior research on organizational communication in sports is analyzed using bibliometric measurement to improve future study directions and promote the scientific progress of this field. In contemplation of assisting researchers in better understanding the literature in their field, the baseline bibliometric variables pertinent to the annual trends of publications and the frequency of citations, number of authors, institutions, countries, journals, collaboration-matched author analysis, and current research were evaluated. A list of publications from the Scopus database was compiled and examined to complete this operation. Scopus is one of the specialized databases that may be used for bibliometric research. The Scopus database was chosen because it contains a more significant number of documents than the Web of Science and Pubmed (Abdullah, 2021).

On July 29, 2022, a thorough review of the organizational communication literature in sports was undertaken using appropriate keywords. Accurately, the selected keywords are a crucial component that must be considered when looking for publications related to the study topic (Sofyan & Abdullah, 2022a). The initial string search strategy used TITLE-ABS-KEY in Scopus, but after manually checking documents, many articles were unrelated to organizational communication in sports. Therefore, the use of the search strategy was changed to the search string TITLE. The Scopus database was explored for articles published between 1981 to 2022 using the following keyword search strings: TITLE “sport* organization” OR “sport*” AND “organization” OR “sport* communicat*” OR “sport*” AND “communicat*”. The retrieval technique was
The collection of 422 articles about organizational communication in sports was discovered. Initial retrieval results suggested ten distinct types of documents and 11 different languages. The retrieval results are then downloaded in CSV and RIS formats. Neither a minimum nor a maximum number of documents may be employed in bibliometric analysis (Sofyan, 2022).

The research was finished in the context of descriptive analysis using the document-checking method in the Scopus database (Alpen et al., 2022). The 422 data discovered were carefully examined after being converted from CSV to Excel format. The manual analysis turned up three duplicate files. As a result, only 419 papers will undergo additional bibliometric examination using the VOSviewer program.

Bibliometric mapping investigates nation co-authorship and the co-occurrence by authors’ keywords. The mapping techniques used by VOSViewer to turn data in the Comma Separated Values (CSV) format into diagrams or clusters included visual elements. Consequently, mapping algorithms help researchers analyze specific data, including...
authors, places, institutions, citations, co-citations, and other refining criteria. Utilizing VOSviewer visualization software to evaluate data (version 1.6.8) (van Eck & Waltman, 2013) for mapping analysis makes it easier to see the dynamics and information structure of the document being studied (van Eck & Waltman, 2010, 2013, 2017).

**RESULTS AND DISCUSSION**

Before studying bibliometric analysis, this study identified obscure publication descriptors such as leading author, source type, language, and subject category. By document type, 265 (63.25%) of these publications were articles, 71 (16.94%) were book chapters, 42 (10.02%) were conference papers, 10 (2.38%) were editorial, 9 (2.14%) were book, 8 (1.91%) were review, 7 (1.67%) were note, 6 (1.43%) were erratum, and 1 (0.24) were letter. By language, 369 (86.41%) of these articles have been published in English, 14 (3.27%) have been published in German, Russian, and Spanish, 10 (2.34%) in French, and one (0.23%) in Chinese, Croatian, Japanese, Malay, Portuguese and Slovak. Table 1 describes other subject areas related to organizational communication in sports.

Millions of people travel worldwide to attend exhibits, trade shows, public displays, and trade expositions (hereafter exhibitions) that highlight specific sectors of the economy and product categories (Lee & Lee, 2014). Comparatively speaking to the print-only era, tracking and gathering usage data has been more straightforward due to the continuously rising popularity of electronic journals (Gorraiz, Gumpenberger, & Schlägl, 2014). To identify markers of scientific output, impact, and collaboration between authors, institutions, and nations, bibliometric and social network analyses were carried out. The critical terms assigned to papers and the journal subject headings were also used in a subject analysis (Aleixandre-Benavent, Aleixandre-Tudó, Castelló-Cogollos, & Aleixandre, 2017).

The Social Sciences, with a total of 214 documents, became the most popular subject area compared to other subject areas. Table 1 describes other subject areas related to organizational communication in sports.

Researching how bibliographic coupling is measured is fascinating. Bibliographic uses co-word analysis and bibliographic coupling to examine an exciting topic (Rojas-Lamorena, Del Barrio-García, & Alcántara-Pilar, 2022). The bibliographic coupling technique is predicated on the idea that two publications with shared references have similar content (Donthu et al., 2021a). The method of bibliographic coupling identifies trending research themes that academics would want to explore in the future (Donthu et al., 2021b).
Bibliographic coupling is when the bibliographies of two works mention a third work they both have in common (Abdullah, 2021). They investigate the relational elements that reveal similarities between documents (Maseda, Iturralde, Cooper, & Aparicio, 2022). The strength of each document’s bibliographic coupling with other texts was determined. Techniques for science mapping are one of the cornerstones of bibliometrics. The VOSviewer software’s default setup (without citation) produced 419 documents from bibliographic coupling based on documents. Figure 1 depicts the pairing of bibliographies by the document.

The article by Winand et al. (2019), “International sports federations’ social media communication: A content analysis of FIFA’s Twitter account,” refers to several referenced sources and is used to evaluate the degree of similarity among 91 referencing articles. Following them were Yoo, S.K. (2013), with a total strength of 76; Denham, B.E. (2019); and Harker, J.L. (2018), each with a total strength of 78. Only these four authors outperformed 75 in total.

The total strength of bibliographic coupling relationships between each scientific source and other sources will be computed. The cited papers are interpreted as sources of inspiration based on the patented invention’s broadest sense (Callaert, Pellens, & Van Looy, 2014). Nearly every day, people either look for or encounter evidence and statements concerning scientific concerns from many sources in news and information sources online, on social media platforms, and in forums. People may want to consider these assertions since they usually desire to make the best decisions for themselves.
Sixty-four scientific sources were discovered from 241 sources connected to organization and communication in sports—the minimum amount of 2 documents by scientific sources and 0 citations. The International Journal of Sport Communication achieved 240 total power. Conversely, the Routledge Handbook of Sport Communication came with 211 citations. These two scientific sources rose to the top two with more than 200 combined power. We chose the scientific source with the highest overall connection strength.

The overall strength of the bibliographic coupling relationships with other authors will be determined for each author, as shown in Figure 3. One of the constraints of bibliometric studies is the potential for author names to be...
identical (Sofyan & Abdullah, 2022b). An orderly description of the theory, findings, and recommendations can be found in a scientific article. Research must be published or documented to be considered complete.

Principal investigators or lead authors are typically the first authors, and the importance of authors decreases with rank. There are a few exceptions to the generalization about author name order, though (Asubiaro, 2019). The authors with the most robust overall link profile will be chosen. There were 57 authors from 803 related to organization and communication in sports. The minimum number of 2 documents owned by the author and the minimum number of citations is 5.

The authors, Anagnostopoulos, C., and Chadwick, S., have two documents combined with 367 and 49 citations. There are four documents, 22 citations, and 320 total citations for C.D. McLaren. Only those three authors’ combined power was more significant than 300.

Universities have played a crucial role in knowledge formation and dissemination for millennia. As a result, universities significantly impact society’s transformation in various ways, including teaching and learning, education, research, and the creation of new ideas and knowledge. Universities and other institutions of higher learning on both sides of the Atlantic have rare opportunities to work together, such as on collaborative research projects. The university rankings worldwide emphasize the number of faculty publications
and students but not the relevance of academic research and how it might benefit societies (Nejati, Shafaei, Salamzadeh, & Daraei, 2011). Fisher commented on the role of universities in “our National System of Education” in 1919. He emphasized a number of the changes that had occurred. Noting, “the State has now begun to exercise an influence over the direction of Scientific Research through the creation of Privy Council Department that formed to encourage the science application to Practical Affairs of Life.” (Taylor, 2018).

However, there were significant adjustments made within the Universities as well. The promotion and organization of research came to the attention of university leadership, which led to the creation of new Committees and policies and the challenge of conventional ideas about academic lives and careers. University researchers developed closer contacts with industry and many other external organizations due to the War. Information and research outcomes “ownership”, as well as research costing and pricing, were some new problems that Universities had to deal with in this matter. Once more, there are a lot of significant challenges that will affect universities for many years to come. (Taylor, 2018).

Twenty organizations among 689 organizations relevant to organization and communication in sports were determined to have a minimum of 2 documents owned by the organization and a minimum of 1 citation. The overall strength of bibliographic coupling linkages with other organizations will be estimated for each organization, as shown in
Figure 4. The company chosen will have the highest overall connection strength.

The University of Northampton in the United Kingdom and Griffith University in Australia each have total powers of 67 and 55, respectively. Only these two entities or organizations possess a combined strength of more than 50.

When research is conducted in collaboration with practitioners rather than by an academic researcher alone and when its findings are communicated to those who influence policy and practice in a practical, easy-to-read format, these two factors have the most significant potential to influence change in practice and policy (Sullivan, Hunter, & Bonnie, 2013).

The total strength of bibliographic coupling relationships with other nations will be estimated for each country, as shown in Figure 5. The nation with the most robust overall linkage will be chosen. Out of 57 countries, 27 had at least one state-owned document, and at least five citations were deemed relevant to sports organizations and communication. With 3876 links overall, the United States is the most linked nation. United kingdom with 3543, Australia with 2773, Greece with 2221, Germany with 2169, Spain with 2106, Italy with 1902, Denmark with 1833, and Canada with 1166.

The term “organizational communication” refers to the channels and modes of communication used by entities like businesses, nonprofit organizations, and governmental bodies. This definition encompasses both internal communications that take place within...
an organization and external communications that take place between an organization and its stakeholders. The effectiveness of a company can be significantly impacted by improving organizational communication.

Organizational communication is a vast field that includes all forms of communication that enable organizations, including businesses, governmental bodies, and nonprofits, to run smoothly, develop, interact with stakeholders, and positively impact society. Internal communications like employee training materials, messaging about a company’s mission, interpersonal communications between management and employees, and formal communication like emails are all examples of organizational communication. Additionally, it covers communications directed at the outside world, such as news releases, marketing collateral, and branding.

Any organization’s management strategy must include effective communication. Effective communication is a crucial component of effective management, regardless of whether the goal is to inform employees of new policies, plan for a weather disaster, maintain safety throughout the company, or to pay attention to employee attitudes. Organizations need detailed rules and plans for communicating with their constituencies, employees, stakeholders, and the general public if they want to succeed. However, there is one thing that is essential to all organizational communication. Because of the complexity and importance of organisational communication, it is essential to understand how to manage and utilize this aspect of organizational strategy.
communication, there is a demand for people skilled in optimizing internal and external-facing communications for businesses, nonprofits, government agencies, and similar organizations.

The term “sports communication” includes the sports industry as a whole or allied field (Wei, Zhang, & Yin, 2020). Organizational communication is part of social responsibility (McCullough, Pelcher, & Trendafilova, 2020). The information transmission and communication pattern has significantly changed due to technological advancement and digitization (Drago, 2015; Febriani, 2021). Sports clubs today should compete with one another on a variety of levels. Marketing is one of the most well-liked competitive fields. Sports clubs must employ sophisticated and efficient communication techniques in this regard. They frequently use Facebook, Twitter, YouTube, and Instagram to promote a positive image; this is done partly to educate their younger followers about the club’s online presence. Today, one of the most prevalent methods of communication is through websites (Siguencia, Herman, Marzano, & Rodak, 2016).

Sports communication is exchanging information using sports as the medium and subject matter. Information content and media technology are crucial to the communication process and a necessary component of all communication activities, which serve as the communication’s content and medium (Peng, 2020). A distinct position is set aside in the framework of sports communication for sports communication, a system of communicational actions logically coordinated by the sports subjects to simultaneously react in presenting sports results at a specific location (Terzić, 2018). Only a tiny portion of the sports communication market comprises ambush marketing. Many businesses cannot be accused of engaging in this behavior. They make links between sports and their characteristics that are legal and widely available (Konczak, 2021).

In professional sports organizations, key employees frequently have to make complex judgments, ranging from routine procedure decisions to sporadic strategic decisions (Ward et al., 2019). Sports organizations can compile a strength profile of the organizations they linked. They will have elements if the relationship does not please them (Lassalle, 2020). At a time when there is a growing reliance on the third sector to provide possibilities for participation in sports, sports organizations have persisted and achieved their goals and objectives for local people in a disadvantaged community. It offers original insights from an anthropological case study focused on the particular sports, socioeconomic, and political milieu (Kenyon, Mason, & Rookwood, 2018).
Every organization needs to adapt to move from the present to the future with different objectives (Gusmarani & Rajiyem, 2022). One of the most responsible parties is the sports organization because it is in their hands to create and implement the sports activity system (Lumintuarso, 2013; Reftari, Suryana, & Setiaman, 2018). Implementing organizational culture and skill development resulting from pupils’ communication is also possible. Possibility of inspiring children to excel in all endeavors, especially in sports (athletic posture, self-assurance, graceful movement, gait); genuine desire to instil in students strong character traits (Maksymchuk et al., 2020).

The demand for excellent governance has increased as a sport has become more commercial and professional; hence sports board functions have taken a similar course to those of the corporate sector, where purpose-fitting systems can be introduced (Shilbury & Ferkins, 2015; Takos, Murray, & O’Boyle, 2018).

Since it facilitates an understanding of various difficulties in this area, including those in the disciplines of human resources, organizational behavior, organizational transformations, and economic and ecological efficiency, organizational culture is a major topic in the academic literature on organizational communications (Ivanka, 2020).

Using digital communication is an effective tool to engage club members (Schallhorn et al., 2022). Experience in a sports group can help people in crucial community contexts (Jones, Wegner, Bunds, Edwards, & Bocarro, 2018) sport-for-development (SFD. Social media platforms offer a forum for direct communication between sports organizations and their supporters (Li, Dittmore, Scott, Lo, & Stokowski, 2019). Every component participating in the sports industry must have effective organizational communication. This research helps academics interested in organizational communication in sports and policymakers create more systematic sports development. Each researcher considers the pattern of organizational communication research in sports to identify potential future research opportunities.

**CONCLUSION**

This bibliometric analysis promotes the investigation and integration of established paths in organizational communication research in higher sports when new trends are developed. Based on a bibliometric assessment of 41 years of organizational communication research in sports, the researchers discovered that the data below offers readers, education professionals, sports practitioners, and researchers a more practical reality. Bibliometric analyses can forecast or offer insight into the current situation
in a given field or topic area. This work provides some helpful information, but it also has some limitations that should be vivid for the benefit of future readers and researchers. The study does have certain restrictions. Other databases, such as PubMed, Google Scholar, or Web of Science (WoS), could incorporate more documents than Scopus, even if the researcher only utilizes one database. Because Scopus publishes papers in high-impact publications, researchers favor it.

The limitations of this study are mainly due to the search strings that have been implemented. If additional keywords are used, the discussion may be slightly different. However, this analysis is only a starting point that can be disseminated by more in-depth investigation, such as a reviewed article or systematic literature review. These findings can develop a theoretical framework, map the field’s current state, and quickly identify gaps in scientific research. Furthermore, the findings of this study have been projected to stimulate the development of new ideas as a result of keyword analysis, enabling the more effective dissemination and communication of scientific work related to organizational communication in sports and the formation of new, more relevant concepts and ideas. This research is expected to be a stepping stone for future work in developing research on organizational communication in sports.

This study has demonstrated a significant but not particularly remarkable growth trajectory of organizational communication research in sports since 2012. Organizational communication research in sports is gaining traction due to the involvement of academics and practitioners, which requires much scrutiny in this area. Organizational communication in sports is an inseparable part of many people’s lives, so good communication is needed in every element of the organization. Of course, this will have a positive psychological, emotional, and social impact on athletes, coaches, officials, or external parties. It indirectly attracts and facilitates current and future researchers who want to learn more and are interested in the topic of organizational communication in sports.

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