

Visual Analysis of Current Research Situation of Campus Football at Home and Abroad Based on Knowledge Map

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Abstract—By using Cite Metrics and Information Visual Citation Analysis software (CitespaceIII) to analyze 728 research papers on campus football from CNKI database and 507 papers from WOS database ranged from 1994 to 2014, the study tries to demonstrate the similarities and the differences of the hot spots of campus football research both home and abroad. The results show that overseas football research is more comprehensive and cross-permeable; more attention are paid to the students' health monitoring and the popularization of medical knowledge; while the researches in China focus more on the research of organization management and the interference factors and so on. In fact, the integration of football with education, health and safety consciousness of the students' participation in football is what we must be concerned about for the further development of football on campus in China

Keywords—campus football; knowledge map; status quo; visualization

I. THE RESEARCH PURPOSE

In recent years, with the popularization and development of campus football in China, a large number of scholars have conducted in-depth researches on campus football, which

provides great theoretical support for the further development of campus football. However, most researches on campus football in China mainly focus on talents training modes, management systems and interference factors. However, there are few comparative studies on the status quo and the summary of campus football at home and abroad. The purpose of this paper is to use CitespaceIII software to visualize the status quo of campus football research both at home and abroad so as to get to know the similarities and differences of the campus football researches at home and abroad and to provide some references and significance for the research and practice of campus football in China.

II. DATA SOURCES AND RESEARCH METHODS

A. Data Source

CNKI and WOS database are used as data sources in the study. Chinese literature is based on the CNKI database. Foreign literature is based on Web of Science (TM) core collection of thesis database. The data source of the literature is shown as in Table I

TABLE I. THE DATA SOURCE LIST

Contents		
Data source	Data source CNKI	Web of Science(SCIE,SSCI,A&HCI)
Search formula	Search formula theme(exact)	theme(exact)
Time span	Time span 1994~2014,	1994~2014
type	Type conference abstract,	Articles
result	result periodicals, dissertations	
	728	507

B. Research Method

In this paper, information visual citation analysis software CitespaceIII is used to analyze the literature and the maps are

used to present the results of analysis, the network nodes are identified as institutions, authors, keywords, research institutes and so on. The default parameters are selected and the knowledge map is obtained after running.

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In view of the fact that the information visualization citation analysis software CitespaceIII still has some shortcomings in the processing of data information, this paper makes a thorough interpretation of the literature data combined with mathematical statistics and content analysis.

C. Results and Analysis

1) Analysis of the time characteristics of campus football at home and abroad

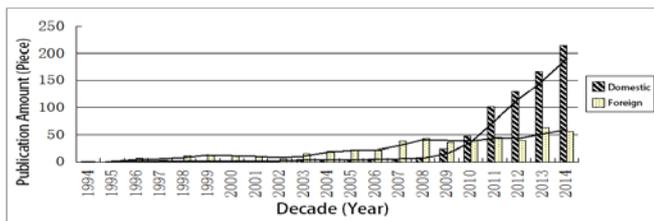


Fig. 1. Annual distribution of domestic and international volume distribution

Through the statistical analysis of the domestic and international annual publications in 1994~2014 years, we can see that the number of annual studies on campus football has increased over the past twenty years. According to the analysis of the trend of the image, it is found that the number of foreign documents has increased steadily, and the biggest increase of the domestic document volume appears in 2010. "The Central Committee and the State Council on strengthening the youth sports enhance youth physical view" ([2007]7) and the Ministry of education, the State Sports General Administration "on the national youth campus football activities of the notice" (group [2009]54) issued a dramatic increase in the amount of documents issued on the campus football influence.

From the time of writing, the study of campus football in China is relatively late compared with the study of foreign campus football. The development of campus football needs scientific research to guarantee. The research volume of campus football at home and abroad is developing rapidly, which shows that the attention of this field is increasing. In 2010, the amount of domestic service is beyond the foreign countries, but the development of the actual campus football is far less than that of the foreign countries. The number of policy documents issued by the State Council, the Ministry of education and the State Sports General Administration is positively correlated with the number of research on campus football. The attention of the government and management department has increased the research enthusiasm of campus football. As a record high in 2014, largely in October 2014, the State Council issued the "State Council on accelerating the development of the sports industry to promote a number of opinions" sports consumption has a great relationship, emphasis on promoting the campus football in the opinion, the development of youth football will rise to the national strategic level, research on campus football has become more and more important.

2) Research field analysis

According to CNKI's disciplinary classification, there are 10 academic fields on China's campus football research, which mainly distributed in sports(78.43%) and education

(21.16%),the two fields account for (99.59%) of the 728 articles, and papers on biology, news &communication and special medicine only account for 0.41%.

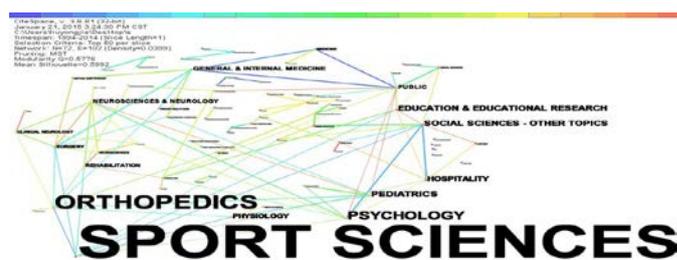


Fig. 2. Distribution of foreign campus football disciplines

Fig. 2 shows that the research field of foreign campus football abroad is extensive in the past 1994-2014 years, and the cooperation between various fields is intensive. The research takes SPORT SCIENCES (Sports Science), PSYCHOLOGY (Psychology) and ORTHOPEDICS (Department of orthopedics) as the main disciplines. Thus, the research focus on the campus football sports health abroad in the course of the study, the changes of physiological indices of attention the students participate in the campus football process, the medical research combined with the campus football research, is conducive to the healthy growth of young students so as to ensure the sustainable development of the campus football. At the same time, it also indicates that the research of campus football in other countries is interpenetrating in social science research and Natural Science (medicine, psychology and so on), so as to promote the comprehensiveness of campus football research and achieve results in the actual development of campus football

Comparison of the overall distribution of Chinese and foreign campus football studies show a sharp contrast, Chinese focuses on policy review research, interdisciplinary relationship is relatively weak; and abroad tend to health research campus football, interdisciplinary contact more closely, it is also for the future research of our school football offers enlightenment, multi-disciplinary integration the combination of basis and application.

3) Research organization analysis



Fig. 3. Distribution map of Chinese campus football research institutions

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