Retraction

Retraction: Research on the Practice of Big Data in College Physical Education (J. Phys.: Conf. Ser. 1992 022131)

Published 02 October 2023

This article has been retracted by IOP Publishing following an allegation that this article contains unconventional terms and nonsensical phrases.

IOP Publishing has investigated in line with COPE guidelines, and agree that this article contains a significant number of unconventional terms and nonsensical phrase. We are also unable to locate a number of the references provided.

The evidence gathered by IOP Publishing to date, combined with the lack of author response, considerably reduces confidence in the work to the extent that IOP Publishing has made the decision to retract the work. We would welcome receiving their account of events.

IOP Publishing wishes to credit PubPeer Commenters for bringing this issue to our attention.

The author neither agrees nor disagrees to this retraction.

[1] Cabanac G, Labbe C and Magazinov A 2021, Tortured phrases: A dubious writing style emerging in science. Evidence of critical issues affecting established journals arXiv:2107.06751v1

[2] https://pubpeer.com/publications/19E11BB81926731736063FD816C858

[3] Tian Xiong 2021 J. Phys.: Conf. Ser. 1992 022131

Retraction published: 02 October 2023
Research on the Practice of Big Data in College Physical Education

Tian Xiong1,*

1Physical Education Department of Shaanxi University of Traditional Chinese Medicine, Shaanxi, China, 712046

*Corresponding author e-mail: xiongtian@sntcm.edu.cn

Abstract. With the advent of the era of big data, the wide application of information technology has promoted the development of the modernization of physical education in colleges and universities. However, at present, there are still many problems in physical education in most colleges and universities, such as the lack of professional application and management personnel, and the imperfect application system of big data. This paper starts from the specific application of big data in college physical education practice, and provides the practical exploration of big data in college physical education [1].

Keywords: Big Data, College Physical Education, Practice

1. Introduction
In recent years, the successful application of big data technology in the field of sports, which is dominated by network, digital and intelligent technology, has brought new challenges and opportunities to the traditional college physical education. Making good use of big data resources is of great practical significance to the content and method innovation of physical education, the promotion of physical health, and the optimization of physical education management. Physical education in colleges and universities is one of the cornerstones of the development of physical education. Because of the advantages of big data, such as predictability and effectiveness of information transmission, more and more colleges and universities begin to pay attention to the use of big data resources in education and teaching [2]. The successful application of big data in physical education in colleges and universities can enrich and expand the physical education teaching mode to a certain extent, which is conducive to the continuous improvement of students' physical literacy, not only to effectively improve the effect of physical education, but also to the management of physical education in colleges and universities [3].

2. The application of big data in college physical education

2.1. The application status of big data in college physical education
The application of big data in college physical education is accompanied by the popularization and renewal of college computer network hardware, as well as the enrichment of multimedia network...
physical education resources. Especially with the development of big data, more and more colleges are starting to run or are ready to run their own campus network physical education platform. The sports network of university campus network is a big data platform for the construction of sports network teaching platform. The sports network of university campus network is based on the campus website. The construction of sports network platform in campus network directly determines whether the university has the foundation for the construction of sports teaching network platform. At present, most of the application forms of big data in physical education teaching in colleges are auxiliary teaching that the physical education network module of campus network shares the material of physical education teaching. From the technical point of view, this paper analyses the feasibility of big data application in college physical education [4].

2.2 Characteristics of big data application in college physical education
The rapid development and production of big data applied in college teaching is a process of using big data as the core to realize the teaching auxiliary function between teachers and students in colleges through the use of network platform. Through big data, it can update the physical education teaching resources in colleges in time, adapt to the needs of physical education knowledge update in time, and provide rich physical education teaching resources for physical education teachers and students in colleges. Students can set their own learning goals according to their own needs, which greatly improve their enthusiasm in the process of physical education teaching. It greatly enriches the traditional mode of physical education, which is conducive to the improvement of the quality and efficiency of physical education in colleges and universities. The application of big data in physical education makes the form of physical education diversified, and the environment in the process of physical education in colleges and universities is freer, which provides students with a more convenient form of physical education [5].

2.3 Problems in the application of big data in college physical education
College physical education has accumulated some experience in the use of big data resources, but due to the lack of big data awareness and big data thinking, there are still some problems in the use of big data in college physical education, such as unsystematic and incomplete problems, as a whole, there are fragmentation, data island and application bottleneck problems, as shown in Figure 1 below.

![Figure 1. Problems in the application of big data in college physical education.](image)

3. Analysis of the insufficient application of big data in college physical education

3.1 Lack of correct understanding of the use of big data
In order to apply big data to physical education, colleges should collect and screen all relevant data,
analyze and integrate them, so as to achieve the purpose of reform and optimization of physical education and sports skills learning. However, most college PE teachers have poor ability to use data actively, limited ability to screen massive data information, and few PE teachers can analyze a large number of detailed sports data, which is different from PE Teachers' expectation of big data application, so they lack the correct understanding and understanding of big data application in the field of physical education.

3.2. Lack of professional PE talents in colleges
Big data is a new industry, so there is still a big gap between China and foreign countries in terms of the training system and software facilities. This is also the main problem of the lack of a large number of big data application and management talents in China. Therefore, it is a long way to go to cultivate excellent big data application and management talents. On the other hand, the weakness of the application foundation of big data technology also reflects the lack of talents in this aspect in China to a certain extent, which is also the main reason for the lack of professional big data application and management talents in colleges.

4. Practical application of big data in college physical education

4.1. Improve the quality and efficiency of teaching management
The application of big data in college physical education teaching, according to the characteristics of college physical education teaching to play its unique advantages, in college physical education teaching, the theory and method of various sports technology and movement theory analysis, as well as the teaching steps and methods of sports skills and the analysis of factors affecting performance need to have corresponding image analysis. In the design of the whole process of physical education teaching, including the theoretical teaching and methods of sports skills to be taught, the analysis of other related factors of theoretical teaching analysis has achieved the corresponding integration. Based on the actual needs of physical education in colleges and universities, it should strengthen the development and application of the software needed for the management of physical education in colleges and universities, so as to promote the development of intelligent management of physical education in colleges and universities.

4.2. Application in teaching research
With the development of physical education research in colleges and universities towards scientific and systematic direction, more and more colleges and universities put physical education research in the perspective of big data, using the big data generated by traditional data and network platform, mobile terminal equipment and wearable equipment to analyze, evaluate, intervene, guide and predict the learning process and behavior of students. However, many college physical education workers still use the old concept to treat the problems of college physical education. Therefore, regular training and learning of modern information technology should be carried out for the physical education workers in colleges and universities. Advanced teaching concepts and models should be inculcated constantly, so that they can accept new concepts under the development background of various new times, and then change their traditional and old series of teaching and evaluation concepts [6].

4.3. Improve the development ability of big data resources
Build the data processing and analysis platform of college physical education, and strive to tap the value of various data of college students. First of all, colleges should have a relatively perfect hardware support system for data collection and storage, and constantly improve its supporting software infrastructure. The core is to provide sufficient computing capacity guarantee. Secondly, focus on the practicality, according to the data and analysis of the position in physical education, the role played, the value in talent training targeted investment and construction, to prevent excessive investment, leading to waste of resources. Thirdly, data engine and data structure are established to
effectively solve data fragmentation, island phenomenon and bottleneck phenomenon. Finally, to strengthen the data connection between colleges and universities and establish the information sharing platform can further optimize the allocation of college sports resources and greatly improve the utilization efficiency of big data.

5. Conclusion
In the era of big data, the development of college physical education informatization is particularly important in the process of college modern teaching. The establishment of college physical education big data platform is conducive to promoting the development of college physical education informatization, the cultivation of modern talents, and ultimately the development of higher education. With the deepening of the educational concept of applying big data technology to college physical education, the physical education workers in colleges and universities should speed up the improvement of college physical education, and make full use of big data technology to organize college physical education and promote the realization of college physical education goals.

References
[1] Fan Jianwei. Research on the application of "big data" in physical education [J]. Sports, 2016, (07). 81-82.
[2] Dai Hong. Research on Physical Education in Colleges and universities from the perspective of big data [J]. Physical Education (Higher Education), 2016, (07).
[3] Zhang Yongkang, Yao Hongbing, etc. Real time monitoring system of laser embroidery removal based on plasma intensity signal [J]. China laser.
[4] Fan Wenhua. Research on the information-based teaching of optional physical education courses in colleges and universities[J]. Physical science research, 2013 (2). 5.
[5] Wang Jinyuan. Using digital concept to strengthen physical education for students [J]. Digital users, 2013, (08): 78.
[6] Xiang Yuhong. Thinking and Enlightenment of school physical education reform in the era of big data [J]. Journal of Nanjing Institute of physical education, 2016, (08). 91-94107.