

Innovation Research of the "Internet plus" Volleyball Teaching System under the Background of Information Age

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Abstract: Due to the rapid development of internet technology, big data, artificial intelligence, multimedia and other new network technologies are updated and iterated rapidly, and all walks of life have an increasingly urgent demand for information technology. As a base for teaching and cultivating talents, schools should adapt to the development of the times and make full use of information technology for teaching activities. For example, "Internet plus" can be used for innovation in school teaching mode. This paper mainly introduces the innovation research of the "Internet plus" volleyball teaching system under the background of network information age. This paper analyzes the influence of "Internet plus" on the teaching mode in universities and colleges, and studies how to use the "Internet plus" to change the teaching mode of Volleyball in universities. The results of this paper show that the "Internet plus" volleyball teaching is a new teaching system that is united and common. It helps to break the traditional volleyball teaching mode in universities and colleges, and improve the single teaching form, the limitation of time and space, and so on. The confidence interval of SPSS17.0 is 0.96. The use of multimedia in the "Internet plus" volleyball teaching system improves the volleyball performance of students, and promotes the smooth progress of Volleyball Teaching in Colleges and universities.

1. Introduction

The "Internet plus" can help to develop the strategy of innovation driven development and promote the transformation and upgrading of industrial structure represent the general trend of the times. It changes the traditional industry's appearance and will change the traditional teaching mode. With the development of science and technology, the traditional teaching system of the school has gradually transformed into modern information technology. At present, colleges and universities in

China generally have volleyball elective courses in the physical education curriculum arrangement. As far as volleyball teaching in colleges and universities is concerned, volleyball sports technology is difficult and the change law is complex. If college physics teachers simply explain the theoretical knowledge of volleyball, students' understanding of the intrinsic value of volleyball may be biased. Only the combination of theoretical knowledge and practical proof can meet the teaching requirements of volleyball colleges and universities. For example, the change of volleyball tactics and the sense of position cannot be described in theory, but must be completed with specific volleyball practice.

Deren LI thinks that "Internet plus" represents a new social form, providing a broad platform for reform, innovation and development. In view of the continuous integration of the Internet in many fields, "Internet plus" is profoundly changing and affecting all kinds of traditional industries. For example, "Internet plus" has created favorable conditions for converting earth observation and satellite navigation into intelligent real-time geospatial information service. Deren Li suggested that in order to implement continuous, all-weather, all terrain service and for each person's specific purpose, it is necessary to overcome the shortcomings of the existing volleyball teaching system, such as limited area coverage, slow response speed and poor interoperability. In addition, to meet the volleyball teaching service requirements in the era of big data, namely, "Internet plus volleyball teaching", we must establish a service system that is inherent to the school family network. For reference only, for the development of volleyball teaching system, this paper discusses three levels of structure and suggestions for the "Internet plus volleyball teaching" service system. Finally, we recognize the needs of the "Internet plus" volleyball teaching service system, examine the teaching and important supporting technologies. However, the cost of this research method is high [1]. Kim I. used a hybrid approach design, which included qualitative teaching data from a male physical education teacher and quantitative learning data from his 24 eighth graders. In the five days before and after the content knowledge seminar, two kinds of volleyball teaching classes (a total of 1/20 classes) were observed, and each class was recorded and videotaped. Descriptive and continuous comparative analysis methods were used to analyze the data. The results show that after teaching content knowledge, teachers use more oral teaching methods, such as task progress, comprehensive skills practice, small games, and content adaptation and so on. These changes in teaching methods ultimately affect students' classroom performance, participation and cognitive understanding of the content. The results show that there is a stable relationship among teachers, content and students' learning by showing that other elements also change when teachers' content knowledge level changes. Research on teaching related work can guide the development of teachers' professional work, so as to enrich the professional knowledge and professional level of teachers. This method has many processes and is not conducive to the study [2]. Dao SD has developed a new random volleyball course scheduling model for virtual course scheduling system, which is an uncertain scheduling model. Two sub problems, course selection and tutor selection, are completely combined to explore opportunities to improve the efficiency of course selection in the system. Dao SD first gives the explicit mathematical formula of the proposed model, then proposes an innovative method based on Monte Carlo simulation and optimization solver to solve the problem, and then provides a comprehensive case study to prove the effectiveness of the proposed model. However, this research method is more complex, which is not conducive to popularization in colleges and universities [3].

In the volleyball teaching system, the "Internet plus" technology can be combined with various audio-visual forms to complete and achieve the teaching effect. Students can deepen their understanding of volleyball by observing volleyball technology, physical exercise, sports competition and routine training and other related resources. This is conducive to improve the

efficiency of volleyball teaching in colleges and universities, and can mobilize the enthusiasm of students to learn volleyball.

This paper analyzes the beneficial influence of "Internet plus" on the teaching mode in universities and colleges in the information age. It is concluded that "Internet plus" volleyball is conducive to the development of volleyball teaching system in colleges and universities. The innovation of this paper is: (1) analyze the application of Internet plus in volleyball teaching system in colleges and universities; (2) analyze the application of volleyball teaching and training venues in universities; (3) analyze the application of volleyball thematic learning website in campus network; (4) analyze the application of APP in volleyball teaching system in colleges and universities.

2. Innovative Research Methods of "Internet Plus" Volleyball Teaching System under the Background of Network Information Age

2.1 "Internet Plus" in the Era of Internet Information

"Internet plus" refers to the Internet in the innovation 2 (information age, the knowledge society's innovation form) and the development and creation of a new form of economic and social development driven by innovation 2, the knowledge society. "Internet plus" is the "Internet plus traditional industries". With the development of science and technology, the use of information and Internet platform makes the Internet and traditional industries integrate, and the advantages and characteristics of the Internet create new development opportunities [4]. "Internet plus" uses its own advantages to optimize and upgrade traditional industries, so that traditional industries can adapt to the new development of [5]. "Internet plus" is the further practice of Internet thinking, which promotes the continuous development of economic form, thereby promoting the vitality of social economic entities, and providing a broad network platform for reform and innovation and development. Simply speaking, "Internet plus" refers to the "Internet plus various traditional industries", but this is not a simple addition. But the integration of internet and traditional industries is deepened by using information and communication technology and internet platform [6]. It represents a new social form, giving full play to the optimization and integration role of the internet in the allocation of social resources, in-depth integration of the internet innovative achievements in economic and social fields, and improving the innovation ability and productivity of the whole society; taking the internet as the infrastructure and implementation tool, it forms a broader new mode of economic development [7].

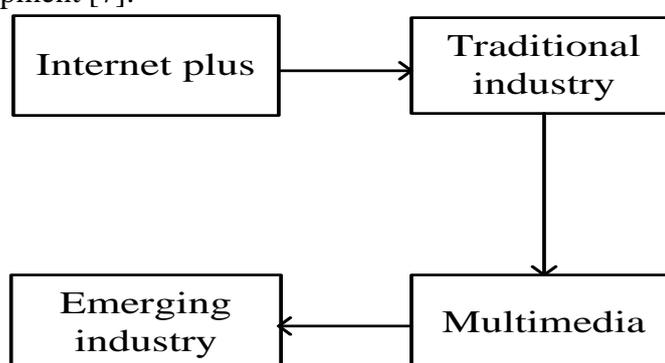


Figure 1: The Internet plus application process

The word "Internet plus" is the core word, and it is the starting point of the "Internet plus"

project [8]. The "Internet plus" project can be expressed from two levels. On the one hand, the word "Internet" and the symbol "+" in the term "Internet +" can be understood separately [9]. The sign "+" indicates the sign "addition", and indicates addition and union. Thus, the "Internet plus" project covers the traditional industries such as the internet, which is a new project for different industries. The implementation means is the combination and deep integration of internet and traditional industries [10]. On the other hand, the "Internet plus" is a whole, and its profound significance lies in the integration of in traditional industries through the internet [11]. The internet uses network functions, such as openness, equal interaction of traditional industries, and changes the production mode and industrial structure of traditional industries through analysis and integration, so as to enhance the driving force of economic development, improve efficiency, and promote the rapid development of the national economy [12]. The process is shown in Figure 1.

2.2 "Internet Plus" Volleyball Teaching Research Method

(1) Literature retrieval

Through the internet data resource website, such as CNKI, Wanfang Data, Du Xiu, SpringerLink and so on, we searched a large number of documents and materials, classified, summarized and analyzed them, providing the first and basic theoretical support for the "Internet plus" volleyball teaching.

(2) Questionnaire survey

The questionnaire is divided into two parts: before and after the implementation. The questionnaire before the implementation mainly raised questions from the aspects of student mobile terminal equipment holding, student exercise habits and network uploading and downloading [13]. Was implemented after the implementation of the questionnaire, and the survey results were mainly conducted from the teaching effect of "Internet plus" volleyball teaching system and mode, and the satisfaction of students on the "Internet plus" teaching mode and other feedback aspects [14].

At the end of the questionnaire survey, the reliability of the questionnaire was tested. For example, the questionnaire survey was conducted again after a few weeks. The correlation coefficient before and after the basic situation and satisfaction of students after class was calculated by SPSS17.0 statistical software. The correlation coefficient was $r = 0.93$, $P < 0.01$. The reliability was high, the reliability of the questionnaire results was high, and the questionnaire results met the requirements [15-16].

(3) Establishment of course scheduling model

When dealing with the unilateral constraint volleyball course scheduling problem, if it is assumed that students' preference for volleyball course can be fully quantified, it will naturally associate with the auction model of market economy [17]. As an educational resource, volleyball course is auctioned to students through educational administration system, and the degree of preference is reflected by students' bidding behavior. Of course, the price in the auction process is virtual, and the initial capital of each student is basically the same, so as to ensure the fairness of the process [18]. Inspired by the competitive equilibrium from equal incomes (CEEI), Eric Budish proposed a dynamic clearing model in 2009 to solve the unilateral constrained course scheduling problem [19]. The traditional CEEI problem requires participants to have the same original capital and to clear their positions perfectly at the end of the auction [20]. Budish modified the condition of the problem, students no longer have the same initial capital, but there are subtle differences. In this case, the solution with small clearance error can be realized, and the fairness is guaranteed to a certain extent, and the algorithm efficiency is improved [21-22].

Input: students provide personal course preference function, write $(\hat{u}_i)_{i=1}^N$, and provide budget b_i^* for each student i , b_i^* obey the uniform distribution of $[1, 1 + \beta]$, and satisfy $0 < \beta \leq \min\left(\frac{1}{N}, \frac{1}{k-1}\right)$ [23]. Output: complete timetable x^* , clearance price P^* and clearance error α . Calculate the clearance price $(p_j)_{j=1}^M$, arrange the class schedule $(x_i)_{i=1}^N$, and calculate the student preference function, so as to achieve the most efficient under the condition of cost restriction [24].

$$\forall i: x_i = \arg \max_{x_i \in \phi_i} [\hat{u}_i(x_i): \sum_j x_{ij} p_j^* \leq b_i^*] \quad (1)$$

Calculation the minimum clearance error α .

$$\alpha = \sqrt{\sum_j \xi_j^2} \quad (2)$$

When $p_j^* > 0$.

$$\xi_j = \sum_i x_{ij}^* - q_j \quad (3)$$

When $p_j^* < 0$.

$$\xi_j = \max\left(\sum_i x_{ij}^* - q_j, 0\right) \quad (4)$$

3. Experiment of "Internet Plus" Volleyball Teaching System under the Background of Network Information Age

The purpose of the "Internet plus" volleyball teaching experiment is to apply the "Internet plus" technology teaching mode to the volleyball course, and verify the effectiveness of the teaching mode through experiments. Through the experimental intervention, volleyball "Internet plus" technology teaching mode is applied to volleyball teaching courses. The teaching effect of volleyball "Internet plus" technology teaching mode and traditional teaching mode on students' Volleyball theoretical knowledge learning, skill learning and learning interest is compared, and the learning situation of "Internet plus" volleyball technology teaching mode is also studied. Satisfaction analysis [25].

3.1 Selection and Test of Experimental Indexes

According to the final examination standard of volleyball course in colleges and universities, and according to the suggestions of volleyball teachers, the test indexes of volleyball teaching experiment are determined. Before the experiment, the test indexes are special physical fitness index and skill test index. The physical fitness index includes height quality, run-up touch height and shot put, and the skill test index includes the technical evaluation and standard of volleyball practice. After the experiment, the test indexes are skill test index, volleyball theory achievement index and students' learning situation and satisfaction. Here is shown in Table 1:

Table 1: Experimental test items

Before the experiment		After the experiment
Special physical fitness index	Height	Special physical fitness index
	Run up to touch height	
	Shot put	Volleyball theoretical achievements
Skill test indicators	Volleyball technical evaluation	Students' learning situation and satisfaction
	Volleyball up to standard	

3.2 Setting of Experimental Objects and Control Groups

Through screening and eliminating the interference factors, the subjects of the experiment were selected as 30 students of volleyball special class and 30 students of Physical Education Department of a certain university. The physical fitness of the two types of students was tested before the experiment. On the basis of equal number of students, the students were divided into two groups, the experimental group was volleyball students, and the other was volleyball elective students. According to the group, the test site and time were consistent.

At the same time, the volleyball experimental group and the control group were tested on the special quality index. The data in the table are the final data after eliminating the invalid data, and the invalid data are the data of the students who fail to participate in the pre-test. By using SPSS17.0, the data of height, shot put and run-up touch height of the experimental group and the control group were tested by independent sample t test before the experiment. The confidence interval was 96%. The data results and correlation analysis are shown in Table 2:

Table 2: Relevant test data

	Height(cm) $\bar{x} \pm s$	Run up to touch height(m) $\bar{x} \pm s$	Shot put(m) $\bar{x} \pm s$
control group (n=30)	181.46 \pm 6.28	3.15 \pm 0.13	12.56 \pm 2.79
study group (n=30)	178.25 \pm 5.11	3.17 \pm 0.57	13.71 \pm 2.73
T	0.538	-0.282	-0.857
P	0.530	0.783	0.549

Note: there is significant difference when $p < 0.05$, but there is no significant difference when $p > 0.05$.

3.3 Experiment Related Organization Process

This experiment intervention is mainly reflected in the "Internet plus" volleyball teaching mode, which is mainly used in volleyball teaching. The main part of the teaching mode is the self-learning of volleyball learning webpage before class and the intervention of volleyball learning task list. The experimental group is to learn the volleyball webpage before class and receive the task list. In this paper, we first determine the test indicators before the experiment, select the participants, through preliminary understanding, exclude the group of irrelevant variables that will affect the experiment (there are many people who have the basis of learning volleyball), and finally determine two groups. The special physical fitness and spiking skill level of the subjects before the experiment were tested and randomly divided into experimental group and control group. Statistical analysis of the test results showed that there was no significant difference between the two groups. Then the experimental group adopted the "Internet plus" volleyball technology teaching mode, while the

control group adopted the traditional teaching mode. At the end of the experiment, the experimental indexes were tested. After eight weeks of experiment, the volleyball skill indexes and volleyball theoretical knowledge indexes were tested in the experimental group and the control group. Finally, the results of the pre test and the post test data are compared and analyzed, and the shortcomings and advantages of the "Internet plus" volleyball technology teaching mode applied in smash skills are found. The difference between the traditional teaching mode and the "Internet plus" volleyball teaching mode is compared. The flow chart is shown in Figure 2:

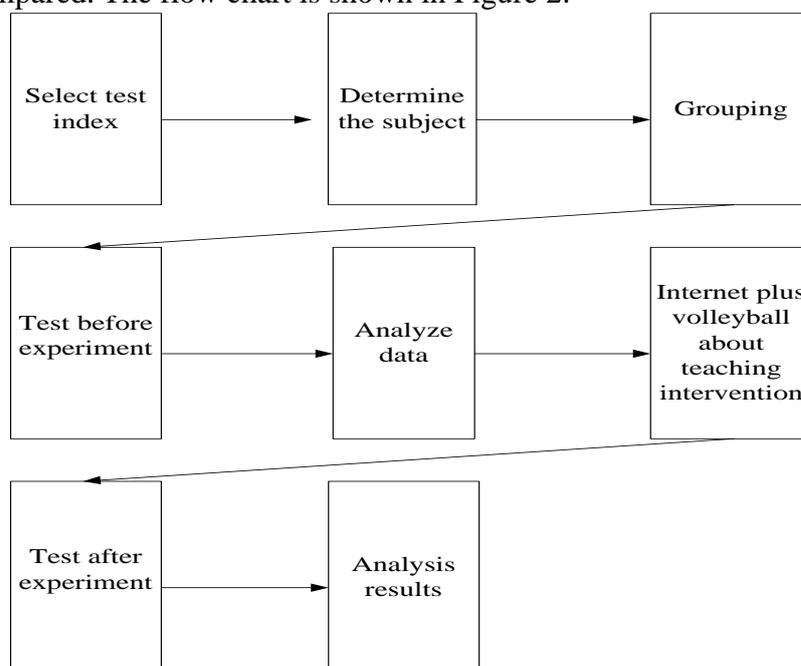


Figure 2: Experimental organization process

4. Innovation Analysis of the Internet Plus Volleyball Teaching System under the Background of Network Information Age

4.1 Analysis of Students' Basic Situation

As the main body of the "Internet plus" volleyball teaching system, students' basic situation will have a direct impact on the teaching effect of "Internet plus" volleyball. Therefore, the "Internet plus" volleyball teaching mode needs to be designed effectively based on the students' basic conditions. The first thing we need to understand is the students' interest in learning. Strong interest in learning is the driving force to promote students' active learning.

Students' interest in learning will directly affect their learning initiative and enthusiasm. Therefore, the author conducted relevant interviews and surveys on the students. Among them, there are some differences in interest in the "Internet plus" volleyball teaching system between male and female students, as shown in Figure 3:

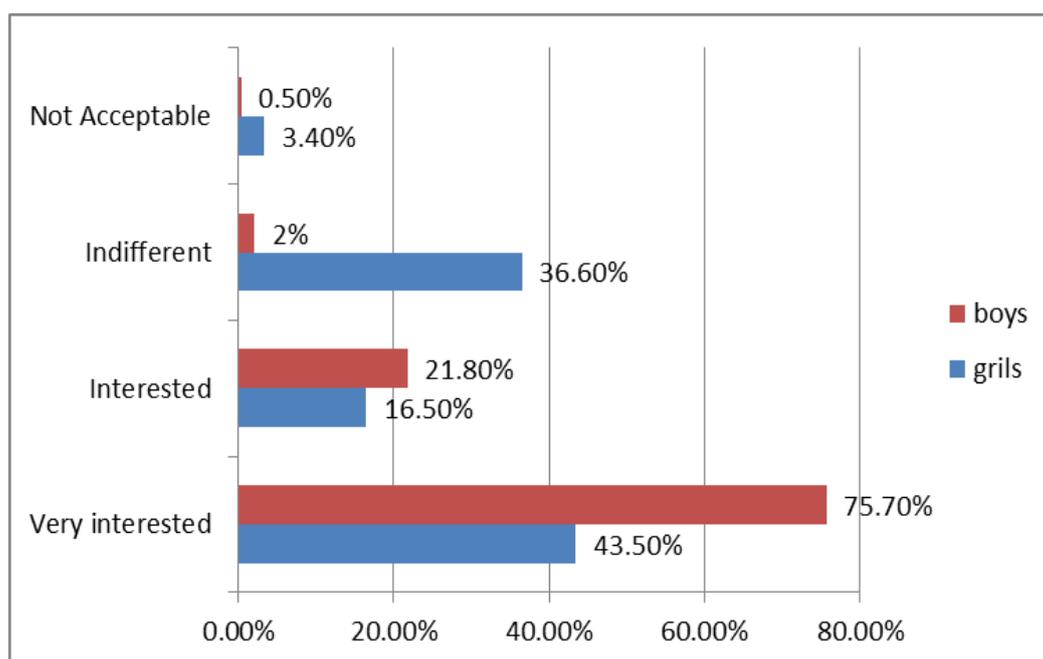


Figure 3: Students' interest

4.2 Students' Learning Needs

Through the investigation of students, the students' preferences for different teaching methods are obtained, as shown in Figure 4. It can be concluded from the figure that the students' favorite teaching method is multimedia courseware, followed by dynamic video teaching and text teaching. A small number of students like audio teaching or other teaching methods. Course wares and textbooks are generally the most direct learning materials for students in the classroom. Multimedia can not only insert the appropriate image, audio and text materials, but also present the teaching content with pictures and texts. As the basic learning materials of students, textbooks, namely text resources, have the characteristics of complete system and strict logic, which is an important way for students to acquire curriculum knowledge. Compared with other resources, text resources can make students calm down to read carefully and deeply understand the knowledge content between the lines; video teaching combines text, sound and image information to dynamically present rich course content, mobilize students' multiple senses and enhance teaching efficiency, so it also attracts many students' interests and preferences. Therefore, the presentation of the "Internet plus" volleyball teaching system should pay attention to the multimedia courseware, dynamic video teaching and the close connection between textbooks, make full use of multimedia courseware, enhance the effectiveness of volleyball teaching, reasonably present video resources, achieve high efficiency in teaching, and break through the traditional volleyball teaching mode in universities.

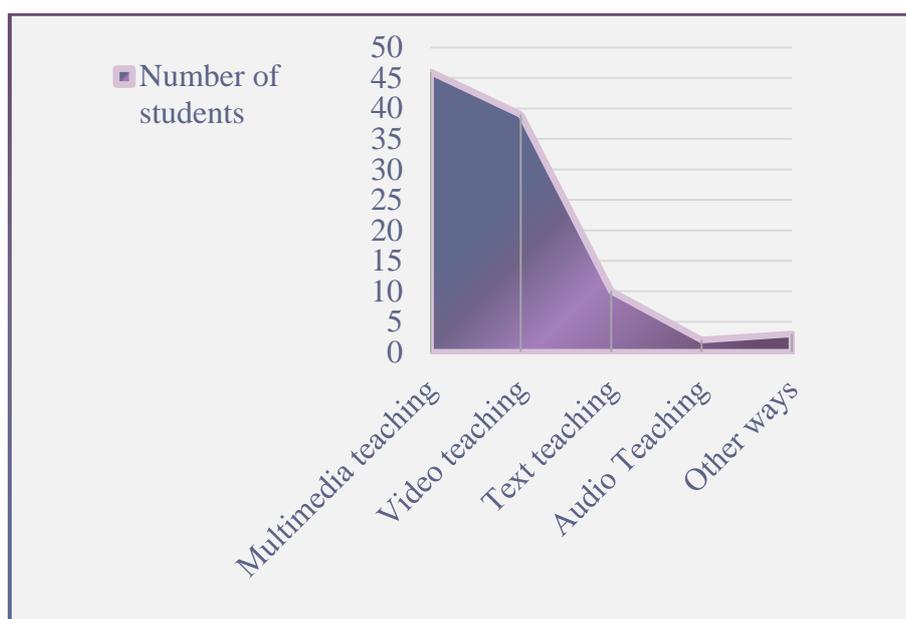


Figure 4: Students' preference for different teaching methods of Teachers

4.3 Application of "Internet Plus" Volleyball Teaching in the Era of Network Information Age in Colleges and Universities

(1) Application of multimedia in college volleyball teaching

The development of multimedia technology and the development of the internet are interrelated. As the background of the internet era, the new technology type integrates text, sound, animation and visual effects and other related functions. In fact, multimedia teaching has existed since ancient times. Teachers have been teaching with the help of text, sound and pictures. However, in the 1980s, the use of a variety of electronic media, such as slide, projection, recording, video and other comprehensive use and classroom teaching, this teaching technology is also known as multimedia combination teaching or audio-visual teaching. Since the 1990s, with the rapid development and popularization of computer technology, multimedia computer has gradually replaced the comprehensive use of various teaching media in the past. Therefore, what we usually call multimedia teaching is the process of teaching activities carried out by using multimedia computers and with the help of pre-made multimedia teaching software. It can also be called computer aided instruction. Multimedia computer aided instruction refers to the use of multimedia computer, comprehensive processing and control of symbols, language, text, sound, graphics, images, images and other media information, according to the teaching requirements, the various elements of multimedia are organically combined and displayed through the screen or projection machine, at the same time, with the cooperation of sound as required, as well as the user and computer. The teaching or training process can be completed through the interactive operation between human and computer. It uses computer technology, network technology, communication technology and scientific and standardized management to integrate, integrate and digitize all information resources related to learning, teaching, scientific research, management and life services, so as to form a unified user management, unified resource management and unified authority control. It emphasizes that students can access the campus network and Internet through WiFi at any time to obtain learning resources conveniently. Teachers can use wireless network to check students' learning

situation, complete lesson preparation and carry out scientific research work anytime and anywhere. Its core lies in the implementation of paperless teaching and the extension of wireless network in campus. Through the comprehensive operation to complete high school volleyball class, The application of this technical form in volleyball teaching in colleges and universities can promote the processing of educational information and present teaching multidimensional, integration and interaction, specialization, etc. after the fusion of various characteristics, the presentation rate of teaching information can be comprehensively improved. As far as volleyball teaching in colleges and universities is concerned, volleyball technology is of great significance to volleyball teaching, and the technical difficulty is high and the tactical changes are very complex. If the college physical education teachers simply explain the theoretical knowledge of volleyball, the students' understanding of the intrinsic value of volleyball may have deviation. Only by combining theoretical knowledge with demonstration practice can we realize the requirements of volleyball Teaching in colleges and universities. For example, the change of tactics and the sense of position in volleyball can't be described only by theory, but must be combined with volleyball sport and practice. The emergence of multimedia technology can be combined with a variety of audio-visual forms to achieve audio-visual teaching effect, which is intuitive and understandable. Students can deepen their understanding of volleyball by watching volleyball technology, sports training, sports competition and routine training and other related resources. And then achieve the goal of college volleyball teaching. For example, teachers collect information and network teaching resources from relevant professional websites before class, and use multimedia to familiarize students with volleyball skills and essentials on the way to class. SPSS17.0 was used for paired sample t test before and after the application of multimedia teaching, and the confidence interval was 96%. The change data of students' volleyball technical test results before and after the application of multimedia teaching are shown in Table 3:

Table 3: Students' Volleyball test results before and after the application of multimedia teaching

Item	Group	Before the experiment	After the experiment	T	P
Skill 1	control group	3.15 ± 0.18	3.14 ± 0.14	-14.253	0.000
Skill1	study group	2.85 ± 0.29	3.16 ± 0.69	-16.326	0.000
Skill2	control group	1.57 ± 0.34	3.15 ± 0.18	-15.751	0.000
Skill2	study group	1.74 ± 0.49	3.15 ± 0.18	-9.256	0.000
Up to standard	control group	1.68 ± 2.03	3.15 ± 0.18	-6.215	0.000
Up to standard	study group	1.81 ± 2.49	3.15 ± 0.18	-2.697	0.005

In order to see the results more intuitively and analyze them, the table is drawn into a column chart, as shown in Figure 5:

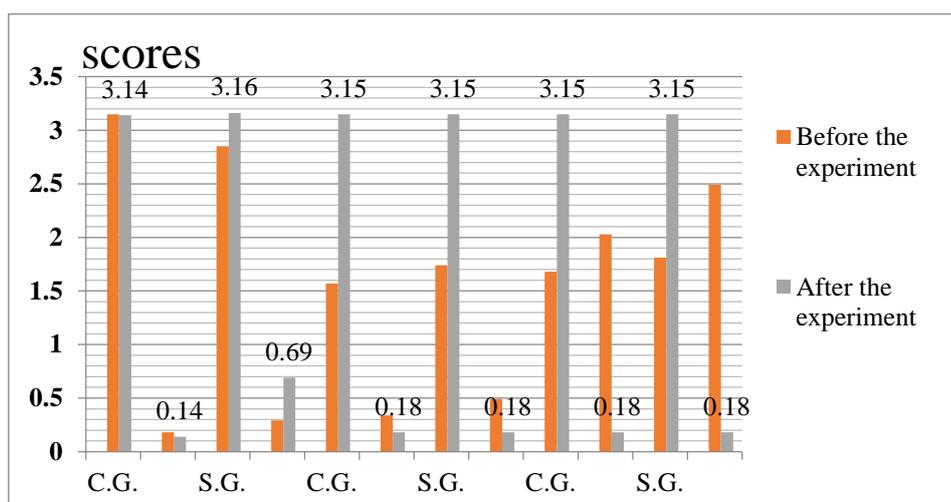


Figure 5: Students' volleyball test results before and after the application of multimedia teaching

(Note: C.G. is control group, S.G. is study group)

(2) Application of information technology in school volleyball venues

Training place is the basis of volleyball teaching development in colleges and universities. With the continuous deepening and development of information technology, volleyball facilities are gradually developing in the direction of informatization and intelligence, such as the construction of automatic control system, automatic office system, intelligent system, network system, access control system and competition information system. But in the construction of college volleyball venues, its main goal is to promote teaching. Using appropriate information technology to equip venues with intelligent system will further improve the problems that may exist in the mutual adaptation of sports venues and modern education. For example, a video recording device is installed in the gymnasium to record the teaching process from various angles. The process of physical education teaching is different from the teaching content of other courses. We can only sum up the experience in practice and find the shortcomings of volleyball. The video recorded by the video monitor can be transmitted to the campus website by teachers, and students can watch it. On the one hand, this method can stimulate the enthusiasm of primary school students to participate in volleyball, so that they can devote themselves to volleyball; on the other hand, it can also provide information for teachers, so that teachers can find out the shortcomings of teaching in students' volleyball, and help teachers constantly improve their teaching methods.

(3) Development of volleyball learning website in colleges and universities

It is a window and platform for the construction of volleyball education in colleges and universities to develop a special college volleyball learning website. Its content should cover all aspects of college volleyball teaching, forming a diversified, three-dimensional, multi-functional network system. The system can include: the design and implementation of volleyball teaching information module, the design and implementation of volleyball teaching plan, summary and feedback teaching evaluation, volleyball related equipment management, monitoring and improvement of physical fitness monitoring system, diagnosis and rehabilitation of primary school students' sports injury. Volleyball education information module, such as scientific selection, technical analysis, scientific training and so on. Organization and management units of off campus activities and volleyball competitions, such as organizing and implementing mass volleyball activities and competitive volleyball activities, and arranging foreign exchange and volleyball

cooperation.

(4) Development of "Internet plus" volleyball teaching exclusive APP

In recent years, sports exercise APP is favored by people who love to exercise. The APP for this kind of exercise often has a high download volume, as shown in Figure 6:

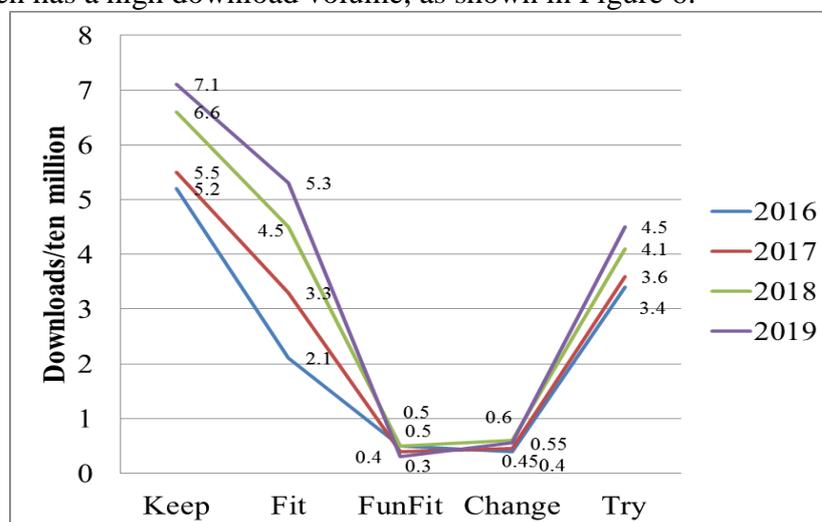


Figure 6: Sports app downloads

Colleges and universities can imitate such APP organization technicians to develop a software specially designed for volleyball teaching, conform to the trend of the times, and truly achieve "Internet plus Volleyball".

5. Conclusions

With the rapid development of computer technology and the continuous expansion of network coverage, it promotes the rapid development of all walks of life. Contemporary college students are in the era of digital economic knowledge, and the society has a growing demand for high-quality talents. "Internet plus" teaching breaks the traditional teaching mode. It takes the convenience of resources, the richness, openness, advanced and sharing of teaching resources, and the advanced nature of teaching ideas change the relationship between teaching methods, teaching methods and teachers and students. The renewal of teaching technology in the field of education will bring about the reform of teaching concepts, and then the teaching form and teaching mode will also enter change. Physical education is a branch of the education industry, which is also of great significance to the development of education. From the current perspective, the physical education teaching mode in China basically stays in the traditional teaching mode, and in the context of the "Internet plus" strategy, it is in line with the emergence of "Internet plus" big data and mobile intelligent terminals. The reform of the physical education teaching mode has become the general trend of the development of physical education teaching. Volleyball course, as the main course of college physical education major curriculum system and the primary choice course of cultural students' physical education elective course, occupies an important position in college physical education and plays an important role in volleyball talent training.

This paper selects the innovation of the Internet plus volleyball teaching system under the background of the internet information age to study. The SPSS17.0 can calculate the confidence interval of 0.96. The way of using multimedia in the "Internet plus" volleyball teaching system can

improve the volleyball performance of students. Under the background of "Internet plus", "Internet plus" volleyball teaching mode is built, and volleyball technology learning platform established by multimedia information technology, network volleyball learning resources and computer aided tools is operable and effective. "Internet plus" volleyball technology teaching mode applied in volleyball teaching can actively arouse students' enthusiasm and interest in classroom learning, and improve students' ability of explaining and demonstrating and autonomous learning.

By studying "Internet plus" Internet application in volleyball teaching system and establishing volleyball timetable model in colleges and universities, we can conclude that "Internet plus" can be applied in the teaching process, volleyball teaching and training venues in universities, volleyball website development and "Internet plus" volleyball APP development.

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