Retraction

Retraction: Judgment and Coping Strategies of IAPE Based on Big Data Analysis (J. Phys.: Conf. Ser. 1852 032036)

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The authors of the article have been given opportunity to present evidence that they were the original and genuine creators of the work, however at the time of publication of this notice, IOP Publishing has not received any response. IOP Publishing has analysed the article and agrees there are enough indicators to cause serious doubts over the legitimacy of the work and agree this article should be retracted. The authors are encouraged to contact IOP Publishing Limited if they have any comments on this retraction.

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Judgment and Coping Strategies of IAPE Based on Big Data Analysis

Fanglian Zeng¹,*, Qiuli Gao²
¹Gannan Medical University, Jiangxi, 341000
²Nanchang Institute of Science and Technology, Jiangxi, 330108
*Corresponding author email:zengfanglian@gmue.edu.cn

Abstract. With the rapid development of Internet technology, we ushered in a new era of data. The advantages of Internet technology have made it widely and deeply applied in all fields of society. IAPE (IAPE) is a key issue in today's education field, and it is urgent to solve the current IAPE problem in schools. This article combines the advantages of current Internet technology and data technology, and takes two universities as examples to explore the differences between IAPE and traditional IAPE in the era of big data, and analyze the advantages of the former. The experiment shows that the former can improve the quality of IAPE's teaching work, and when compared with the two teaching modes, 31% of the participants in the experimental group are satisfied, and 36% of them are very satisfied, while only 25% of the control group were satisfied. Therefore, in addition to expounding the problems of IAPE in the era of big data, this article also conducts some research and discussion on the methods and strategies to deal with this problem on this basis.

Key Words: Big Data, IAPE, Big Data Analysis, Coping Strategies

1. Introduction
Since the advent of the Internet, the connection between the world has become closer. In addition, the pace of globalization is accelerating, and all kinds of ideological waves are sweeping in. Many young people are surrounded by all kinds of ideas, and do not know the dross and essence of their minds at all times. Under the current encirclement of ideas, many young minds are not yet mature. But because of the rapid development of the Internet, many young people are easy to come into contact with some bad ideas, thus being influenced by them, and have a very bad influence on their three views. Therefore, it is very important to strengthen the IAPE for young people.

While Internet technology has shortened the distance between people and promoted cultural exchanges and dissemination, it has also brought a lot of negative effects on our youth. Young people with immature thinking are very vulnerable to the erosion of bad culture, so it is very important to strengthen the IAPE for young people. Nowadays, this era is an opportunity as well as a challenge for IAPE. How to use big data technology to reasonably and correctly guide people, especially students' ideological and political behavior, has become the focus of IAPE work, and also the focus of...
research and attention[5]. In the IAPE work of the school, the use of big data technology can better clarify the students' interests and ideas, so as to take this as the starting point, guide students' thinking and behavior to the right direction. Du Yining and Li Guofeng thinks that the Internet is a double-edged sword. With its rapid development, IAPE has been affected to a certain extent. It has brought some positive effects on the teaching philosophy and methods of IAPE. At the same time, due to the intermingled good and bad ideas and the mixture of fish and dragons, it also brings some negative effects to the IAPE. The challenge and difficulty[6]. Big data technology can accurately screen data and effectively find out the required information content, which provides great help for the analysis of IAPE work[7]. Liu Shanshan thinks that ideological education is very important, especially the ideological and political work in schools. It is believed that big data thinking should be applied to IAPE work, change the original thinking mode, use big data technology to promote the improvement of school political education work, and better cultivate students' ideological and moral behavior[8]. Big data technology has brought a lot of convenience to people. The relevant departments should take advantage of this opportunity to strengthen IAPE.

With the continuous development of the Internet and education industry, many new technologies and ideas can be combined with the education industry to promote the healthy development of the education industry. Since the word big data appeared in people's field of vision, its popularity has not been reduced. People use it to collect and use a lot of data that was difficult to use and collect before, and through rapid and accurate analysis, we can get the results we want [9]. After the verification of time, people are more aware of the advantages of big data, and even realize that big data can bring opportunities and competitiveness to people and take the initiative. Similarly, it is the same for the education industry. Big data can well promote the transformation of traditional ideological and political teaching mode, promote the innovation of ideological and political work mode, and make the teaching level of the whole IAPE industry rise to a higher level. Therefore, under the background of big data, the mode of Ideological and political work can be further innovated and realized. Therefore, this paper studies this issue to guide how to use big data to realize the innovation of IAPE teaching mode and the further improvement of IAPE level, so as to promote the good development of students' Ideological and moral quality and promote the ideological and political work Better deployment [10].

2. Method

2.1. Big Data
Big data is a kind of industry term. It is a kind of data collection, which can not be managed by some common software tools within a certain period of time. Structured, semi-structured and unstructured data are part of big data, and the most important part is unstructured data. Big data is a natural development to the present Internet phenomenon, in a variety of technological innovation, many difficult to collect and use data began to be used, big data will continue to benefit mankind and bring greater value.

2.2. Education Mode Innovation
Nowadays, education innovation is a major content in education. Many local education departments are trying their best to transform examination oriented education into quality education and vigorously promote the pace of quality education reform. The main goal of comprehensive education is to cultivate the spirit of innovation and practical ability. In school education, classroom teaching is indispensable. Therefore, the school classroom is the main reform place of comprehensive education.

2.3. Application of Big Data in IAPE Analysis
The application of Internet technology has made the school's IAPE resources more abundant, which has improved the educational environment to a large extent and provided students with a wider range of learning channels. In the ideological and political work of the school, a reasonable and appropriate teaching method can greatly improve the teaching efficiency and effectively promote the students'
Ideological and political learning. Teachers can use big data technology to accurately locate students' interests, so as to timely change teaching methods and promote the reform and innovation of ideological and political teaching mode.

2.4. Methods Involved in the Comparison between College Physical Education Teaching Mode and Traditional College Physical Education Teaching Mode under the Background of Big Data

From the above, we can learn that compared with the traditional teaching methods, under the background of big data, the learning efficiency of students in physical education class will be improved, and the class quality of teachers will also be improved. When we compare the advantages and differences between College Physical Education and traditional teaching under the background of big data, we use the methods of experiment and questionnaire survey, and the results of these methods involve the following formula:

\[ D(X) = \frac{D(X)}{n} \]  

\[ SD(X) = \frac{SD(X)}{\sqrt{n}} \]  

\[ DX = \sum_{i=1}^{n} (x_i - EX)^2 p_i \]  

In the above formula, \( n \) is the number of samples, \( D \) is the sample variance, \( SD \) is the sample standard deviation, \( ex \) is the expected value, \( PI \) is the probability, \( Xi \) is the single sample, and \( X \) is the average number of samples.

3. Experiment

According to the previous article, the biggest advantage of Internet technology applied to IAPE teaching is to enable teachers to better and more deeply understand students' interests, and to better discover students' interests, so as to design better teaching methods and improve teaching efficiency. It also improves students' learning enthusiasm. Moreover, it also brings students a better experience of studying ideology and politics, and better cultivates students' moral quality, which helps students develop their physical and mental health in a good direction.

3.1. Selection of Experimental Objects

Taking two similar types of schools as an example, this paper analyzes their ideological and political teaching mode. The ideological and political teaching mode of school A adopts the method of big data technology, while school B uses the traditional IAPE mode.

3.2. Experimental Test Index

In this experiment, we conducted a questionnaire survey on the students of two schools in the experiment by random interview, and compared and analyzed the results of the two groups of experimental data combined with the feedback.

3.3. Processing of Experimental Data

We can use the knowledge of probability theory in data processing. One of the key contents of probability theory is total probability. Total probability is to study how to calculate the event probability under complicated conditions from some simple events through the probability of these simple events. This method represents a kind of mathematical thinking of logical calculation, that is, it can transform the situation into a complex one. It's easy, it's hard to get the results you want. The formula is as follows:

\[ P(A) = P(A | B_1)P(B_1) + ... + P(A | B_n)P(B_n) \]  or:
\[ P(A) = P(AB1) + P(AB2) + \ldots + P(ABn) \] (the relationship between a and BN is cross)

Among them, B1, B2, B3 BN stands for events. They constitute a complete set of events, which are incompatible with each other. The sum is a complete set, and any \( p(Bi) \) is greater than 0.

4. Result

4.1. Experimental Data Results

In this experiment, we will analyze and compare the teaching results and quality of the two schools. The method adopted here is to mark the teaching situation of the two schools in a semester according to the relevant education and professional departments. The score is based on the percentage system. In this experiment, we recorded the results of four groups of experiments respectively. The final experimental results are shown in Table 1 and Figure 1.

**Table 1. Comparison of Variance Results between the Two Schools**

|          | Experiment 1 | Experiment 2 | Experiment 3 | Experiment 4 |
|----------|--------------|--------------|--------------|--------------|
| Experiment group | 88           | 83           | 85           | 93           |
| Control group    | 70           | 75           | 68           | 79           |

**Figure 1. Comparison of Variance Results between the Two Schools**

From Table 1 and Figure 1, we can see the teaching situation of the two schools. We can see that the teaching performance of school a, which adopts the teaching mode of IAPE combined with big data, is significantly higher than that of School B adopting the traditional IAPE teaching mode. Therefore, we can know that big data technology has brought great influence on the IAPE work of the school Many benefits, in addition to providing teachers with a clearer syllabus and bringing students different experience, but also to greatly improve the efficiency and quality of teaching. It also shows that it is desirable to apply big data technology to the teaching mode of IAPE in schools, which is
worthy of investment and research. It is conducive to promoting the development of IAPE in schools, and can better solve the problems in IAPE.

4.2. Students' Satisfaction with the Two Teaching Modes

In the questionnaire survey, we conducted statistics on the satisfaction degree of students in school A which applied big data method and school B applied traditional teaching mode in IAPE teaching. The results are shown in Table 2 and Figure 2.

**Table 2.** How Satisfied are the Students of the Two Schools with the Two Teaching Models

|                     | Very satisfied | Quite satisfied | Dissatisfied | Unclear |
|---------------------|----------------|-----------------|--------------|---------|
| **Experiment group**| 36%            | 35%             | 13%          | 16%     |
| **Control group**   | 20%            | 26%             | 24%          | 30%     |

**Figure 2.** How Satisfied are the Students of the Two Schools with the Two Teaching Models

From Table 2 and Figure 2, we can see the satisfaction of the students in the two schools on the teaching mode and traditional teaching mode of IAPE under the background of big data. Among them, 36% of the students in the experimental group were very satisfied, 35% were satisfied, 13% were not satisfied, and 16% were not clear. In the control group, 20% of the students were very satisfied, 26% were satisfied, 24% were not satisfied, and 30% were not clear. This shows that compared with the traditional teaching mode of IAPE, students prefer the experience brought by the teaching mode of IAPE combined with big data. Under the mode of combining big data with school ideological and political work, the teaching efficiency and teaching quality of IAPE in the school have been greatly improved. At the same time, it has also greatly improved the students' interest in learning and the efficiency of teachers' class. It has also promoted the moral and ideological behavior of students to develop in a good direction, and also improved the students' awareness of Ideological and moral education. Therefore, the teaching mode of IAPE under the background of big data is welcomed by
teachers and students at present, and it also promotes the IAPE work to go on well, so as to improve the IAPE level of the whole society.

5. Conclusion
Through the above-mentioned and analysis, we can know that big data technology can promote the IAPE work in schools well, and also bring better teaching experience to teachers and students, so that teachers can make classroom plans more orderly and planned, adjust teaching methods and strategies, and make students more interested and in-depth study of IAPE. Deeply realize the fun of IAPE learning, through the appropriate application of big data technology in IAPE teaching, can also make the school teachers more deeply aware of the importance of big data in IAPE teaching, so as to use big data technology to reform and innovate teaching methods, improve teaching quality and improve school IAPE. The environment of education and teaching, through big data technology to better understand the interests of students, stimulate students' interest in Ideological and political learning, improve the quality of IAPE, and promote the sustainable and healthy development of IAPE. In the context of big data, teachers' teaching methods have also been changed qualitatively, which further improves the teaching efficiency and promotes the cultivation of students' good ideological and moral quality. Every school should keep pace with the times, change the traditional teaching concept, grasp the opportunity of the times, and open up a new prosperous scene for the IAPE.

References
[1] Wang Ningbang. Research, judgment and coping strategies of campus network loan under the environment of big data [J]. Journal of Qujing Normal University, 2019, 38 (3): 33-40.
[2] Xu Li. Research on Path Innovation of ideological and political education in Colleges and universities from the perspective of big data[J]. File, 2018, 008 (034): 176-177.
[3] Zhu Meng. Social governance function in the era of big data: Research on the innovative development of ideological and political education in the new era [J]. Theoretical observation, 2019, No.158 (08): 45-49.
[4] Xu Shuiqun. Innovation of "Trinity" Ideological and political course teaching mode through big data analysis [J]. Fujian basic education research, 2019, No.127 (07): 79-81.
[5] Wang Shuo. Challenges and Countermeasures of ideological and political education for Postgraduates in the era of big data [J]. Journal of Liaoning Vocational and Technical College of economics, 2017, 94 (006): 69-71.
[6] Du Yining, Li Guofeng. Research on innovation of ideological and political education in Colleges and universities in the era of big data [J]. Journal of Social Sciences of Jiamusi University, 2019, 037 (006): 65-67.
[7] Liu Shanshan. Coping strategies of University Ideological and political work based on big data thinking mode [J]. Management observation, 2019, 717 (10): 136-137.
[8] Kang Zhe, Wang Kun, Zhang genning. Research on public security intelligence research and judgment method based on rule learning in the era of big data [J]. Computer and telecommunications, 2018, 265 (10): 34-37.
[9] Ji Jing, Wang Tianrui. Research on application standardization construction based on big data environment [J]. China public security, 2017, No.305 (12): 100-104.
[10] Qian Dandan, Li Lin. monitoring and analysis of university network public opinion based on big data technology [J]. Journal of Xiamen Institute of technology, 2019, 27 (4): 55-60.