Retraction

Retraction: Design of College English Teaching Information Platform Based on Artificial Intelligence Technology (J. Phys.: Conf. Ser. 1852 022031)

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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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Design of College English Teaching Information Platform
Based on Artificial Intelligence Technology

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Abstract. With the development of Artificial Intelligence (AI) technology, especially in the construction of College English teaching (ET) IP (IP), more and more applications have promoted the current college ET reform and development. We first analyze the connotation of AI technology and the related technical problems that need to be solved in the design of ET IP, then analyze its technology in the development of English learning through the discussion of AI technology, and finally analyze the application of AI technology from many different aspects. Listening, writing, translation and oral ET. Secondly, under the guidance of modern education theory and learning theory, combined with the information environment, combined with teaching practice, using AI technology and information technology to design college students' English IP. Through the theoretical construction of the traditional ET model, through interviews and questionnaire surveys, some problems that exist in the learning of the English IP are found. AI technology and new media in information technology are applied to the actual teaching practice of college English, and the whole teaching practice process is tracked and analyzed. In the process of tracking and analysis, the teaching model is continuously improved. The analysis of the teaching practice results shows that "under the mode of College English education informatization, the construction of College English based on AI technology" improves students' learning ability and greatly improves their English learning achievements. The experimental results show that in the current network connected information society, the construction of College English education IP should abide by the traditional education concept, completely innovate the education mode, and provide the greatest advantages of AI technology and information technology.

Keywords: AI technology, college ET, information teaching platform, new network media

1. Introduction
In College English education, the development of AI technology is mainly reflected in language
recognition, language understanding, language translation machine and other related intelligent technologies [1-2]. Especially in China's major universities, speech recognition technology based on AI technology leads the world. The best point is that the accuracy of speech recognition is more than 98.2%, and the recognition speed has been proved through practice [3-4]. In this stage, through the application and development of AI speech technology and intelligent information technology, intelligent machines can recognize and quickly respond to human language [5]. With the upgrading of intelligent translators, the level of AI translation has evolved from simple text matching to in-depth understanding of language, which is similar to that of human brain thinking. In order to make up for the shortcomings of traditional English classroom, we should make full use of the advantages of AI in College English education. AI technology is applied to language based English listening education, students can automatically unify learning resources [6-7].

In the context of the rapid development of intelligent digital technology, the information digital platform has opened up a new education model, overcomes the limitations of traditional courses, and provides a new education model and a variety of knowledge promotion models. Although at the present stage in China's universities, English has made great progress and development in teaching level, textbook construction, curriculum setting and teaching staff [8]. However, the traditional ET methods are relatively outdated. Many English teachers are still using traditional teaching methods, combining blackboard, chalk and textbooks [9].

Although the technological innovation in the information age is the most noticeable, in order to make full use of high-tech technology and equipment, College ET management needs to adapt to the thinking mode of information innovation from three aspects: teaching idea, teaching idea and working idea. First of all, on the one hand, College ET should establish the teaching consciousness based on AI technology, and actively change the traditional teaching concept, so that the traditional college ET ideas, methods and models can actively adapt to the changes of intelligence and thinking. In the information age. Learn more about its impact. The influence of the intelligent age and information age on the teaching elements of English education in Chinese colleges and universities makes it more in line with the teaching requirements of teaching strategies and plans in the intelligent information age [10].

2. Method

The primary purpose of ET in colleges and universities is to first build an intelligent information technology environment in ET. This is the prerequisite for ET to cope with intelligent information technology and strengthen the design of intelligent information teaching platform. Through the students’ self-directed learning before class, the teacher’s troubleshooting during the classroom teaching process and the discussion in the classroom, the students’ language learning ability has been greatly improved. Of course, students’ English learning cannot be limited to the classroom. We also need to develop skills through the flipped classroom platform. Therefore, teachers can design certain practical tasks for students after class, and help students internalize knowledge and expand skills through practical tasks. For example, teachers can ask students to write a short essay, or watch a short film of “Ten Top Time-Saving Technique Tips” to write about their impressions. Students can make a group summary in the next class by watching the video and writing their thoughts.

2.1 Innovate teaching methods, strengthen translation practice, optimize the content of teaching materials, and expand foreign investment

In order to be able to change the current teaching method of inculcating college students by emphasizing theory and ignoring practical theories in colleges and universities, this method has a very negative impact on the cultivation of students' English translation ability. Innovative English classroom teaching methods, clever use of information and intelligent platforms to increase the proportion of English translation practice teaching. Colleges and universities can reform the teaching methods of college English from the following aspects: <1> change the classroom teaching mode and
<2> carry out translation practice activities.

2.2 Optimize the content of teaching materials and expand extracurricular materials
Translation textbooks are the most important documents in college English translation teaching. No matter whether the textbook structure is reasonable or not, the quality of its content directly determines the result of teaching translation. When learning English skills, letting students have a deeper understanding of practical knowledge will greatly enhance their enthusiasm for learning English. Improving knowledge is very useful for applying English. Therefore, university teachers should encourage students to increase their reading through IP, and teachers should monitor students’ learning in real time and use AI technology to improve students’ daily learning. The purpose of case analysis is to lay a good foundation for students’ next step of study.

2.3 Deep learning synchronization algorithm based on AI
After each neuron in the hidden layer extracts valuable data features from N sets of teaching sample data, the actual output is the actual output formula of the fth neuron in the output layer as follows:

\[
C_j = f_1 \left( \sum_{i=1}^{n} s_{ij}q_i + \xi_j \right) \quad j = 1, 2, \ldots, q,
\]

\[
b_l = f_2 \left( \sum_{j=1}^{q} r_{lj}C_j + \varphi_l \right) \quad l = 1, 2, \ldots, p,
\]

The expected error function of the actual output is as follows:

\[
E = \frac{1}{2} \sum_{t=1}^{p} (w_t - b_t)^2
\]

The performance of online teaching depends on teaching efficiency. The efficiency of fixed network teaching is difficult to meet the requirements of variable weight adjustment. The weight value easily crosses the optimal value of the gradient direction, resulting in failure of convergence and expected output. In order to speed up the convergence speed and jump out of the local minimum, an online self-adjustment method of network teaching efficiency is proposed. The basic idea is to adjust the network teaching efficiency according to the total error E.

\[
a(t) = \begin{cases} 
a \times a(t-1) & E(t) < E(t-1) \\
b \times a(t-1) & E(t) < c \times E(t-1) \end{cases}
\]

The rule of this algorithm is that when the total error e between the actual output and the expected output increases, the network teaching efficiency will decrease by 4 times; when the total error between the actual output and the expected output decreases, the network teaching efficiency will be adaptive to increase in a time.

3. Experiment

3.1 Subject
In order to further understand the innovative research of College English information network teaching mode based on AI technology, this paper selects 70 English Majors in Nanchang Institute of technology as the research object. Study the subject of the survey.

3.2 Research design
This study first analyzes the literature on the practice of network IP teaching for English Majors Based on artificial intelligence technology, and collects the theoretical and applied research data of network IP teaching mode for English Majors at home and abroad. Clear research ideas and clear research contents lay the foundation for the development of research and thesis writing. Questionnaire survey, also known as form filling method, refers to the preparation of a questionnaire, and then distributed to the research object through the paper. In this experiment, a total of 70 questionnaires were distributed and 70 were collected, with a recovery rate of 100%. Then, statistical and comparative research
methods are used to collect data. Finally, educators should use many of methods and technologies to solve the network problems of English Majors Based on artificial intelligence technology according to the specific operation procedures. In this paper, through the questionnaire survey and analysis of the current development of IP teaching problems and problems.

4. Results

4.1 Survey of English learning methods

![Figure 1](image.png)

**Figure 1.** The results of the survey of college English learning methods

It can be clearly seen from the figure above that there are many ways to learn college English, and the method of writing is much higher than the other three. Many college teachers and students think that writing can improve students’ learning efficiency, but in the information age, many people use other methods (watching English movies, listening to English songs, online speaking) and so on. However, the obstacle to the informatization of College English education is obviously to ensure that every student has tools in the information age, which should be paid attention to and gradually improved.
As shown in Figure 1, this paper makes a sample survey of College English information teaching methods. Samples include: MOOC teaching, watching English movies, online speaking, English listening and speaking teaching and microteaching. Obviously, the popularity of micro class and watching English movies is relatively high, 93.7% and 97.65% respectively. It is understood that the reason why students are interested in these two methods is that learning methods are interesting and English learning is relatively easy. MOOC teaching ranked third. Network oral English and English listening and speaking teaching are affected by certain external factors. But according to the survey, I think that no matter what, on the basis of modern information, any kind of learning method is conducive to ET and students’ English learning. So far, we have found that compared with the traditional teaching methods, the use of information-based teaching platform in College ET has greatly improved the teaching efficiency, and students’ feedback on the teaching methods is also very good.

![Use percentage graph](image)

**Figure 2.** Survey results of the adoption of English informatization methods in colleges and universities.

| Years | 1980s | 1990s | 2000s | 2010s | 2020s |
|-------|-------|-------|-------|-------|-------|
| Number of Papers | 21 Articles | 37 Articles | 379 Articles | 21768 Articles | 76521 Articles |
| Number of Universities | 6 | 19 | 38 | 456 | 1682 |
| Teaching Quality | Not good | good | good | good | good |
| Student Agrees | None | None | 38% | 86% | 99% |
| Student Opposed | None | None | 62% | 14% | 1% |

It can be seen from the above table that from 1980 to 2000, due to the slow development of
informatization, most teachers and students did not know what informatization was. So they just teach English in an old-fashioned way. However, since 2000, information technology has been emerging. Some colleges and universities have realized that informatization is of great help to college students' English education. The emergence of one after another has aroused the attention and recognition of the majority of teachers and students. After 2010, with the continuous development of Internet information, ET methods in Colleges and universities have become particularly rapid, and colleges and universities have entered the mode of this era.

4.2 Application of AI technology in English IP teaching

With the continuous development of modern AI technology and information technology, AI technology has also made considerable progress. Its intelligent platform has been applied to all aspects of modern society. Due to the emergence of various intelligent ET platforms in people's field of vision. This advanced English information network teaching method is incomparable to other forms. These intelligent software are powerful and easy to use.

4.3 Experimental investigation report statistics

Table 2. Statistics of your satisfaction with using the intelligent online network teaching system

|                      | Very satisfied | Quite satisfied | General | Less satisfied | Very dissatisfied |
|----------------------|---------------|----------------|---------|----------------|------------------|
| course information   | 63            | 2              | 3       | 1              | 1                |
| Percentage           | 90%           | 2.8%           | 4.2%    | 1.5%           | 1.5%             |
| Operating Area       | 65            | 4              | 0       | 1              | 0                |
| Percentage           | 92.8%         | 5.7%           | 0%      | 1.5%           | 0%               |

As shown in Table 2, this paper investigates the user satisfaction of the intelligent online teaching system used by the investigated students. Select "course information" and "work area" for data comparison and analysis. It can be seen from the data in the table that the students are very satisfied on the whole, accounting for about 92% of the total, while the students who are more satisfied or dissatisfied account for about 8% of the total. After that, the survey results based on AI data show that the system is very effective.

5. Conclusion

In the face of the development of education informatization, information classroom combines information technology and classroom teaching organically, which can better achieve teaching objectives, effectively display teaching content and improve the attractiveness of classroom teaching. Information intelligent English classroom has become one of the important research directions of the current university education reform. The combination of information technology and AI technology is an important measure of the new round of College ET reform. In College ET, AI technology is used to build ET IP. Under the guidance of teachers, change students' learning style, enhance students' learning experience, and explore the potential of AI technology. The purpose of English practice is to promote college teaching reform and improve teaching quality. The effective integration of AI technology and College English information teaching platform makes the innovation of hybrid teaching mode become the new normal of ET, which can improve the influence of AI technology on College ET, and further cultivate high-quality talents for social and economic development.
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