A Study on the Application of Digital Technology in English Language Education

Hong Wang

Hubei Preschool Teachers College, Wuhan, Hubei, 436032, China
497954986@qq.com

Abstract: *As digital technology enters a new era, English language education has entered a stage of high-quality development. Based on the human-centered education concept, researchers should propose digital technologies that meet the needs of English language education. Based on the dynamic evolution of digital technology development and the internal logic of education development, we construct a theoretical analysis framework for integrating digital technology and English language education. It can explain the educational mechanism generated by the innovative mechanism and resource-sharing mechanism related to digital technology and English language education. In addition, it explores the possibility of moving towards high-quality development goals from digital technology development and practical deduction. Digital technology development provides educational resources that meet the standards expected of English language teaching. The staff in charge will continually strive to improve the quality of training and increase training satisfaction. Therefore, they strengthen the management of digital technology based on the internal circulation of educational quality, build a mechanism for interaction and exchange between digital technology educational resources and the recognition of educational quality, and evaluate digital technology and English courses. A system needs to be established to realize the development of high-quality English education, promote the modernization of education, and ensure the quality of education to meet people's expectations for high-quality education.*

Keywords: *Digital technology; English language teaching; High-quality development; Challenge; Strategy*

1. Introduction

English language education is one of the primary responsibilities of school education, and it is also a general term for education modernization. It can be divided into basic English language education and non-basic English language education, including school education and extracurricular tutoring [1]. To improve the quality of English language education, the education department entrusts professional institutions to research and evaluate English language education. Since the beginning of the 21st century, digital technology has become the key to modern education, and teaching quality has become an evaluation index [2]. Unlike traditional English language education, digital technology emphasizes personalization, interactivity, and intelligence. Therefore, this paper puts forward the research topic of the application of digital technology in English language education, and digital technology provides development opportunities for the education industry.

The application of digital technology in English language education originates from the modern educational concept with technology as the core. Its application reflects educational innovation and is also one of the tools for educational modernization. From the perspective of educational structure, society pursues educational equity and combines information technology with teaching content to realize the modernization of English language education. It is a local practice in the field of education. Today, digital technology has implemented a unique development way in English language education. The comprehensive promotion of digital technology in English language education changes the educational tradition and embodies educational innovation. Moreover, it will change the educational rules and challenge educational equity. Therefore, when applying digital technology in English language education, people must have a long-term vision and a global pattern. Thus, we put forward the proposition of integrating digital technology into English language education.

To sum up, applying digital technology in English language education is a critical condition and guarantee to realize the modernization of education. From the development perspective, English language education has made remarkable progress, but there are imbalances in educational resources and

risks in education quality. There is room for improvement in applying digital technology in English language education, and managers are working hard to move forward. Therefore, the application of digital technology in English language education needs to be further studied, which aligns with educational development needs and the inevitable choice to realize the modernization of education [3].

Based on the above background analysis, this paper proposes an application strategy of digital technology in English language education, aiming to optimize educational resource allocation. Theory and practice have solved the imbalance of educational resources and reduced the risk. The integration strategy of digital technology and English language education has been put forward, which effectively responds to the challenges of educational resources risk and quality improvement and has practical significance.

2. The Integration of Digital Technology and English Language Education Realizes the New Reform of Education

The integration of digital technology and English language education is a concept developed in parallel with the modernization of education. It reflects the evolution of information technology, highlights educational innovation, and reflects the strategic transformation of education since the beginning of the 21st century [4]. However, it is challenging to get a satisfactory answer when we use traditional standards to construct the definition and essence of integrating digital technology and English language education.

3. Challenges Brought by Digital Technology and English Language Education

3.1 Educational Resources: Excessive Intervention Leads to Imbalance of Educational Resources

The balance of educational resources is an essential criterion for evaluating the quality of education and an expression of the allocation of resources. Scholars have discussed the meaning of educational resource balance from the perspective of equity and efficiency. Furthermore, some scholars argue that the balance of educational resources refers to the degree of rational distribution of educational resources. Because the balance of educational resources is of practical significance, it belongs to the science of educational management to improve the quality of education. Educational practice is closely related to the process of educational modernization. Managers optimize the allocation of educational resources to give full play to educational resources and promote educational modernization [5]. The main contribution of educational resource management theory since the reform and opening up is to put forward the concept of educational resource balance. Therefore, educational administrators initially focused on allocating resources based on criteria of equity and efficiency.

3.2 Education Problem: English Language Education under the Influence of Technology

3.2.1 Errors in Educational Decision-making and Deviations in Management

Compared with traditional educational decision-making methods, decision-making based on digital technology emphasizes the relationship between technology application and management efficiency. It has the characteristics of a technology-driven. Although some scholars question that there may be no direct relationship between technology application and management efficiency, most advocate that educational decision-making can be evaluated rationally. Brunner et al. proposed a classic model of digital educational decision-making with multiple elements. Since then, this model has become a typical tool for decision analysis, thus developing a systematic concept. People think educational decision-making is systematic and essential to the "educational decision-making process." The decision-making result will be effective only when the decision-making process is transparent and reasonable. Thus, educational decision-making is the result of the application of digital technology. In addition, scholars have constructed digital educational decision-making models, including those based on data analysis and management systems. The former focuses on data analysis, while the latter focuses on management systems, also called process optimization. Although people have experienced failures in practice, from the perspective of educational modernization, it can improve the scientificity and accuracy of educational decision-making. Subsequently, the digitalization of educational decision-making has gradually become the consensus of educational research and practice. Errors in educational decision-making and deviations in management are shown in Figure 1.
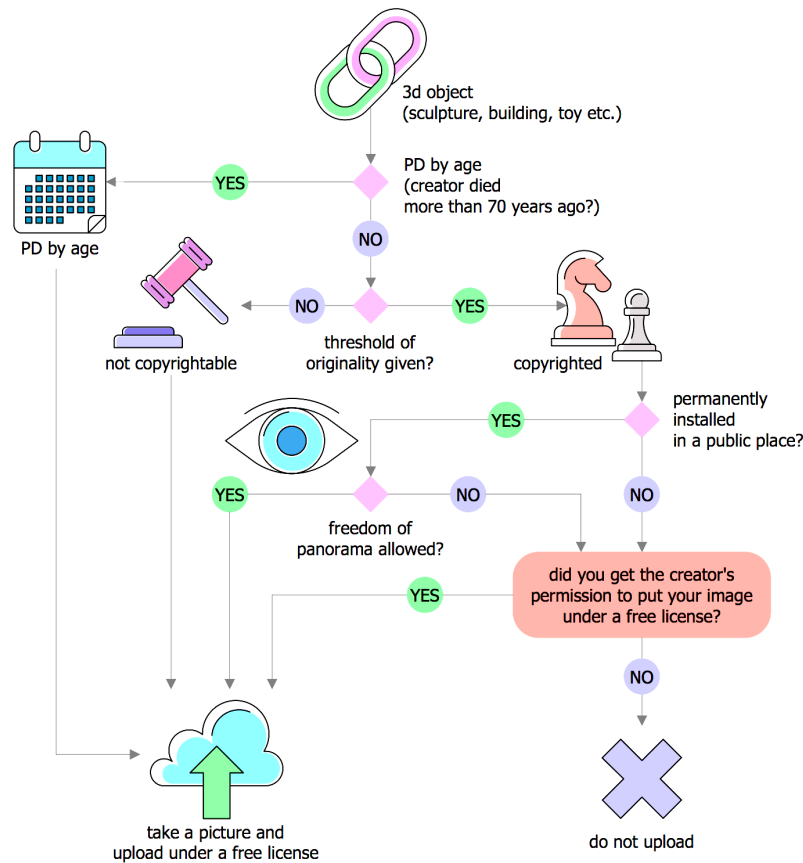
Figure 1: Errors in Educational Decision-making and Deviations in Management

3.2.2 Educational Problems and Digital Risks

Educational problems include students' possible psychological barriers. Digital risk is the application of risk thinking in digital technology applications. It has entered the research field as a new model to overcome the shortcomings of the traditional English language teaching model. This framework has four essential ideas. First, digital English education must ensure fair and effective teaching implementation. Second, it sets professional standards for English language teaching outcomes. Third, use big data and other technologies to capture students' learning processes. Fourth, quantitative methods are used to measure learners' learning effect. The digital English language teaching framework reconstructs the teaching mode, emphasizes learners' autonomous learning ability, and constructs a personalized, differentiated, intelligent, and good teaching environment [6].

3.3 The Birth of Educational Risks

3.3.1 Educational Resources

Educational risk reflects the imbalance of educational resource distribution. The excessive involvement of digital technology impacts the situation of educational equity and quality. Some components of the risk development of educational resources are gradually taking shape, such as the evaluation index and evaluation system in allocating educational resources, which are gradually becoming of concern. However, from the perspective of practical effect, the practice of some resource allocation stays in the traditional stage, contrary to the logical framework and generation mechanism of educational resource risk, leading to the imbalance of educational resources.

3.3.2 Educational Quality

From the perspective of educational quality, the allocation of educational resources is one of the primary links to improve the quality of education, and it is also the core embodiment of the development of digital education. The focus of the allocation of educational resources is fairness and efficiency. The rational allocation of educational resources promotes digital education and reduces educational risks. At

this stage, the allocation of educational resources should be strengthened by digital means, and there are three primary forms. The first is to make rational use of digital resources to ensure the fairness and efficiency of education. Second, the standardization of resource allocation is realized by formulating digital education's resource and management standards and making them public. Third, the internal process of reengineering digital educational resource allocation is carried out. In recent years, China's education departments have improved the quality of education by digital means [7]. However, compared with the ideal state, the digital level of the current allocation of educational resources needs to be further improved.

3.3.3 The Risk of Educational Equity

The fundamental difference between the risk of educational equity and the risk of educational resources lies in its nature. The standard and criterion of it is to ensure educational equity. The risk of educational resources is mainly reflected in the imbalance of resource allocation. In the framework of education risk, accurate identification, assessment, control, and response to risks are the core values and the highest standards. In addition, the diversity of educational resources and the difference in educational needs lead to diversifying educational risks. Although digital technology has played a positive role in allocating educational resources, risk management could be better, and we need effective prevention and control mechanisms. In summary, they are the short board of the education system, which hinders education's overall quality and development.

4. Development Strategy of the English Education Industry under the Challenge of Digital Technology

4.1 Two-way Integration: English Language Teaching and Digital Means

4.1.1 High-quality Migration of Educational Resources and Effective Use of Digital Technology

From the perspective of educational resources, traditional English language teaching can only make partial use of teaching resources and methods. The integration of digital technology into English language teaching will have an impact on students' satisfaction. However, digital education needs more information about education quality and risk prevention and control mechanisms, possibly due to the unbalanced allocation of educational resources. In digital English language teaching, educational resources are usually described as "core elements", and their influence on educational quality directly reflects the application effect of digital technology. However, there is a need for information about the balanced allocation of educational resources. Usually, the acquisition of educational resources takes time. The asymmetry of educational resources and the imperfection of risk prevention and control hinder the development of digital English language teaching.

4.1.2 Improve the Quality of English Language Teaching

From the perspective of education quality, the unbalanced allocation of educational resources has restricted the quality of English language teaching for a long time. Since the 21st century, digital teaching, which integrates digital technology and educational resources, has reshaped the English teaching mode through efficient information transmission and personalized learning. However, the disadvantages of the traditional allocation of educational resources limit the improvement of English teaching quality. Due to the unbalanced allocation of educational resources and the limited application level of digital technology, the effect of digital English language teaching needs to be improved. Digital technology is regarded as one of the direct ways to improve the quality of English language teaching. However, the practical effect of technology-based digital English language teaching on educational equity and efficiency remains to be discussed. At the same time, difficulties in data acquisition and processing lead to low accuracy of educational resource allocation. Digital English language teaching needs to strive to achieve the goal of improving the quality of education. To sum up, digital English language teaching is a technical problem, and it also needs help allocating educational resources.

4.2 Resource Sharing: Optimizing English Language Teaching, Institutional and Digital Governance

4.2.1 Educational Regulation and Digital Governance

Digital English language teaching cannot avoid digital governance. In the education regulation mechanism, digital governance is a standard and effective risk management tool that plays a vital role in improving the quality and equity of education. It makes digital governance a technical concept linked to

the education system. Therefore, English language teaching management based on digital governance has become the core mechanism of the system. The practical deduction of digital governance is generally a shared way based on educational equity and efficiency, although this process contains trial and error. Digital governance has always been closely centered on educational equity and efficiency, from educational resource allocation to improving educational quality. However, managers are committed to long-term educational goals to meet educational development requirements. However, in the case of amplified digital technology, there is a dilemma: educational inequality. In general, digital governance has room for improvement in education equity and efficiency, and its risk prevention and control need to be further improved, which is an essential task for developing the education industry [8].

4.2.2 Educational Decision-making and Digital Cultivation

From the perspective of educational decision-making, digital cultivation is the essential link to industry development, and it is also the core embodiment of educational equity and efficiency. Digital cultivation attaches importance to data collection. Digital cultivation is an aid to educational decision-making and a way to improve efficiency. The English language teaching industry adopts digital means to strengthen the control of educational decision-making in three forms. First, they use educational resource allocation and teaching model innovation to achieve educational equity. Second, standardized management is achieved through the development of educational quality standards and digital application standards and the disclosure of these standards to educational participants. The third is the internal process of reengineering. In recent years, the English language teaching industry has used digital means to improve the quality and efficiency of education. However, compared with traditional education, the efficiency of digital education needs to be further improved.

4.2.3 Shared Responsibility

The governance standards and guidelines aim at achieving educational equity and improving efficiency. Educational development is mainly reflected in the balance of educational resource allocation and the improvement of educational quality. In the co-governance framework of digital English language teaching, accurate data analysis, fair resource allocation, personalized teaching support, and transparent decision-making processes are the core values and highest standards. The diversity of digital English language teaching types and participants' differences lead to diversifying education outcomes. Although the concept has been promoted, the governance mechanism could be better, and digital English language teaching needs adequate supervision and evaluation mechanisms. In short, they are the short board of educational governance and affect the overall development of digital English language teaching.

4.3 Return to Education: The Essence of English Language Teaching

From the perspective of the nature of education, digital education will accurately provide the deep learning and language ability training required by English language learners. The satisfaction evaluation of English language teaching in digital education is the main form of evaluation, but digital education lacks relevant information and mechanisms. The root of the problem may be the deviation from educational goals. In English teaching, the influence of digital education on English teaching is embodied in realizing educational goals. However, digital education is mostly about technology, and the core content is relatively scarce. The quality of English language teaching is difficult to evaluate. Information asymmetry and imperfect education evaluation systems have affected the effect of English language teaching.

5. Conclusion

Digital education has been developed for a long time, which poses new challenges and requirements for English language education. Digitization symbolizes the modernization of English language education, an essential means of educational innovation. Furthermore, there is an urgent need to achieve educational equity and maintain the quality of education, reflecting the inherent educational development requirements. Due to the modernization of education, people construct the theoretical analysis framework and practical mechanism of education. In recent years, modern information technologies such as big data and artificial intelligence have promoted the development of digital education, improving the accuracy of services by integrating the datasets. The research value conforms to the internal logic of the modernization of education. Therefore, digital education also provides a new way of learning English. To sum up, the sustainable development of digital education is conducive to achieving educational equity and improving the quality of English language education.

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