

# Research on English Translation Teaching Mode Based on Artificial Intelligence

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**Abstract:** With the continuous development of artificial intelligence technology, its application in the field of education is becoming increasingly widespread. This article aims to explore the effectiveness of an AI based English translation teaching model and its impact on traditional teaching models. By analyzing the current application status of artificial intelligence in English translation teaching, this article summarizes the advantages of artificial intelligence in personalized learning, real-time feedback, language data processing, etc., while also pointing out its limitations in the teaching process. Finally, this article proposes the development direction and improvement suggestions of English translation teaching mode based on artificial intelligence, in order to provide useful reference for educators.

**Keywords:** Artificial intelligence; English translation; Teaching mode; Personalized learning; Real time feedback.

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## 1. Introduction

With the continuous advancement of globalization, the status of English as an international lingua franca is increasingly prominent, and English education has become an important communication tool on a global scale. However, the traditional English translation teaching model faces many challenges, such as limited teaching resources, difficulty in meeting personalized learning needs, and low learning efficiency. In this context, an AI based English translation teaching model has emerged, which utilizes advanced information technology to provide English learners with a more personalized and efficient translation learning experience. The English translation teaching model based on artificial intelligence has significant advantages. Artificial intelligence technology can process large amounts of language data and achieve precise translation and understanding of English texts through machine learning and natural language processing techniques. This not only helps improve learners' translation skills, but also enhances their understanding of the English language and cultural background. In addition, artificial intelligence systems can provide personalized learning resources and feedback based on learners' learning habits and levels, thereby meeting the needs of different learners. The translation teaching model based on artificial intelligence has broad application prospects in English education. It can be applied to online English education platforms, providing instant translation assistance for remote learners and enhancing their learning experience. It can assist teachers in translation teaching and improve teaching efficiency in English classroom teaching. Furthermore, AI based translation teaching can also be applied in fields such as cross-cultural communication and business English, helping learners better adapt to the international communication environment. However, the English translation teaching model based on artificial intelligence also faces some challenges. How to ensure the accuracy and cultural adaptability of translation is an important issue. Although artificial intelligence technology has advantages in processing large amounts of linguistic data, there are still shortcomings in understanding and conveying subtle cultural differences. Secondly, privacy protection and

data security issues are also issues that need attention. How to protect learners' personal information and avoid data leakage when using artificial intelligence for English translation teaching is an urgent problem to be solved.

## 2. The Current Application Status of Artificial Intelligence in English Translation Teaching

### 2.1. Applied to Personalized Learning

Currently, English translation teaching in Chinese universities is facing problems such as uneven student levels and single teaching methods, resulting in unsatisfactory teaching outcomes. However, with the continuous development of artificial intelligence technology, its application in English translation teaching is becoming increasingly widespread. The English translation teaching model based on artificial intelligence can provide personalized learning resources and suggestions according to students' personalized needs, which can help improve students' learning interest and efficiency. At present, some Chinese universities have begun to apply artificial intelligence technology to English translation teaching, providing teaching assistance to teachers and improving teaching effectiveness through tools such as automatic grading and student performance analysis. However, due to the immature technology of artificial intelligence in the field of English translation teaching, there are problems such as misjudgment and mistranslation. Therefore, it is necessary to further optimize algorithms and models to improve their accuracy and stability. At the same time, traditional teaching methods should be fully integrated, teachers should play a guiding role, pay attention to students' emotional needs, and achieve better teaching results.

### 2.2. Real Time Feedback on Student Translation Practice

In English translation teaching in universities, students' practical translation ability is one of the important indicators to measure teaching effectiveness. However, traditional translation teaching often has problems such as untimely feedback and weak targeting, which affect the effectiveness

of students' translation practice. With the continuous development of artificial intelligence technology, its application in translation teaching is becoming increasingly widespread. The translation teaching mode based on artificial intelligence can analyze students' translation results in real time, provide targeted feedback, help students correct errors in a timely manner, and improve their translation skills. Meanwhile, artificial intelligence can provide personalized learning resources and suggestions based on students' individual needs, which can help improve students' interest and efficiency in learning. Therefore, in English translation teaching in universities, artificial intelligence technology should be fully utilized to provide students with real-time feedback and personalized learning support, in order to improve their translation practice ability.

### **2.3. Language Data Processing Applied in Translation Practice**

In college English translation teaching, language data processing is an important link. Traditional translation teaching often requires teachers to manually organize and screen translation materials, which is time-consuming, laborious, and inefficient. However, with the continuous development of artificial intelligence technology, its application in the field of translation teaching is becoming increasingly widespread. The translation teaching model based on artificial intelligence can handle a large amount of language data, provide students with rich translation materials and contexts, and help them better master translation skills. Meanwhile, artificial intelligence can provide personalized learning resources and suggestions based on students' individual needs, which can help improve students' interest and efficiency in learning. Therefore, in English translation teaching in universities, artificial intelligence technology should be fully utilized to efficiently process language data and provide students with a better translation learning experience.

### **2.4. Auxiliary Teaching Applied in Translation Teaching**

Artificial intelligence can provide teaching aids for teachers, such as automatic grading, student performance analysis, etc., which can help improve teaching effectiveness. With the continuous development of artificial intelligence technology, its application in the field of English translation teaching in universities is becoming increasingly widespread. The translation assisted teaching model based on artificial intelligence can provide students with a more intelligent and personalized learning experience, which helps to improve their learning interest and efficiency. Firstly, artificial intelligence can help teachers better manage classroom and teaching resources. Through tools such as automatic grading and student performance analysis, teachers can more accurately understand students' learning situations and needs, providing strong support for teaching. At the same time, artificial intelligence can provide personalized learning resources and suggestions based on students' individual needs, which can help improve students' learning interest and self-learning ability. Secondly, artificial intelligence can provide students with richer translation materials and contexts. The AI based translation assisted teaching model can handle a large amount of language data, provide students with rich translation materials and contexts, and help them better master translation skills. At the same time, artificial

intelligence can analyze students' translation results in real time, provide targeted feedback, and help students correct errors in a timely manner to improve their translation skills. However, the technology of artificial intelligence in translation teaching is not yet mature, and there are problems such as misjudgment and mistranslation. Therefore, when applying artificial intelligence technology for translation assisted teaching, it is necessary to fully integrate traditional teaching models, give full play to the guiding role of teachers, pay attention to students' emotional needs, and achieve better teaching results.

## **3. The Advantages and Limitations of Artificial Intelligence in English Translation Teaching**

### **3.1. The Advantages of Artificial Intelligence in English Translation Teaching**

#### **3.1.1. Conductive to Personalized Learning for Students**

Artificial intelligence can provide personalized learning resources and suggestions based on students' learning needs and levels, which can help improve students' interest and efficiency in learning. The application of artificial intelligence in English translation teaching can provide students with a more intelligent and personalized learning experience, which can help improve their learning interest and efficiency. Firstly, artificial intelligence can provide personalized learning resources and suggestions based on students' individual needs. The translation teaching mode based on artificial intelligence can automatically analyze students' translation results, provide targeted feedback, help students correct errors in a timely manner, and improve their translation skills. At the same time, artificial intelligence can analyze students' translation situations in real time, provide real-time learning advice and guidance, and help students better master translation skills. Secondly, artificial intelligence can provide students with more efficient learning methods. Traditional translation teaching often requires teachers to manually organize and screen translation materials, which is time-consuming, laborious, and inefficient. However, the translation teaching model based on artificial intelligence can automatically correct and analyze students' translation results, provide targeted feedback, help students correct errors in a timely manner, and improve their translation skills. Finally, artificial intelligence can help teachers better manage classroom and teaching resources. Through tools such as automatic grading and student performance analysis, teachers can more accurately understand students' learning situations and needs, providing strong support for teaching. At the same time, artificial intelligence can provide personalized teaching resources and plans based on the personalized needs of teachers, which can help improve their teaching level and efficiency.

#### **3.1.2. Conductive to Providing Real-time Feedback on Students' Translation Results**

Artificial intelligence can analyze students' translation results in real time, provide targeted feedback, help students correct errors in a timely manner, and improve their translation skills. In the field of English translation teaching, the application of artificial intelligence has brought revolutionary changes to students' learning, especially its real-time feedback function on students' translation results, which significantly improves teaching quality and learning

efficiency. When a student completes a translation task and submits it to the artificial intelligence system, the system immediately activates its complex natural language processing mechanism to conduct a comprehensive and in-depth analysis of the student's translation results. Unlike traditional manual correction, artificial intelligence systems can quickly identify grammar errors, unclear semantics, improper vocabulary selection, and provide immediate feedback in translation. The feedback content not only includes pointing out specific error locations and types, but also includes detailed explanations and modification suggestions. Students can quickly understand their own problems in the translation process based on these feedbacks and make targeted improvements. At the same time, the artificial intelligence system will dynamically adjust the content and difficulty of feedback based on students' translation performance, providing personalized learning support for students. In addition, artificial intelligence systems can also conduct big data analysis on students' translation results, extract common problems and weak links among students, and provide teaching references and improvement suggestions for teachers. In this way, teachers can more accurately grasp students' learning status, adjust teaching strategies, and improve teaching effectiveness. In short, the real-time feedback function of artificial intelligence on students' translation results not only improves students' learning efficiency and translation level, but also provides strong teaching support for teachers, promoting the innovative development of English translation teaching.

### **3.1.3. Proficient in Language Data Processing in Translation Practice**

Artificial intelligence can process large amounts of language data, providing students with rich translation materials and contexts, which helps them better master translation skills. The advantages of artificial intelligence in translating language data processing mainly include the following aspects. Firstly, artificial intelligence can improve translation efficiency and accuracy. Through natural language processing technology and machine learning algorithms, artificial intelligence can quickly and accurately process large amounts of language data, improving translation efficiency and accuracy. Meanwhile, artificial intelligence can also learn and optimize based on existing translation data, continuously improving translation quality and effectiveness. Secondly, artificial intelligence can provide more diverse translation services. Through the Internet and big data technology, AI can provide users with more abundant and diversified translation services, including multilingual translation, voice recognition, image recognition, etc. These services can meet the different needs and scenarios of users, providing a more comprehensive and personalized translation experience. In addition, artificial intelligence can also help users better understand and master translation knowledge. Through interactive technology and intelligent question answering systems, artificial intelligence can provide users with more vivid and interesting learning experiences, helping them better understand and master translation knowledge and skills. In summary, the advantages of artificial intelligence in translation language data processing mainly include improving translation efficiency and accuracy, providing more diverse translation services, and helping users better understand and master translation knowledge. These advantages can provide users with more comprehensive, efficient, and intelligent translation services and learning

experiences, promoting the development and progress of the translation industry.

## **3.2. The Limitations of Artificial Intelligence in English Translation Teaching**

### **3.2.1. Lack of Humanistic Care**

Artificial intelligence overly relies on algorithms and data, which may lead to neglecting students' emotions and needs, affecting the quality of teaching. In English translation teaching, although the application of artificial intelligence has brought many conveniences, its limitations cannot be ignored. Firstly, artificial intelligence often lacks a deep understanding of cultural background, context, and semantics when processing language, which may lead to translation errors. Secondly, artificial intelligence lacks human emotions and humanistic care, and cannot meet the needs of students in emotional communication, psychological support, and other aspects. It lacks human emotions and empathy, cannot perceive students' emotional needs and psychological states, and cannot provide educational support with humanistic care. Furthermore, artificial intelligence also has certain limitations in handling complex language structures, rhetorical devices, and other aspects, which may lead to problems such as stiff and rigid translation results. In response to these limitations, we need to combine artificial intelligence with human teachers in English translation teaching, leverage their respective strengths, and make up for each other's shortcomings. Human teachers can focus on cultivating students' cross-cultural communication skills and emotional communication abilities in teaching, and improve their overall quality. Meanwhile, human teachers can also utilize the data and feedback provided by artificial intelligence to better understand students' learning status and provide strong support for teaching.

### **3.2.2. Not a Replacement for Teachers**

Although artificial intelligence can provide auxiliary teaching, it cannot replace the role of teachers in inspiring thinking, cultivating abilities, and other aspects. In English translation teaching, although the application of artificial intelligence provides convenience and support for students' learning, it cannot replace the role of teachers. Teachers play multiple roles in the teaching process, not only imparting knowledge, but also guiding and supporting students' learning. Firstly, teachers focus on cultivating students' cross-cultural communication skills and emotional communication abilities in teaching, and improving their overall quality. In English translation teaching, teachers can use their own experience and humanistic care to guide students to understand the cultural background and context behind the language, and improve students' translation and cross-cultural communication skills. Secondly, teachers can provide targeted teaching support and guidance based on students' personalized needs and learning conditions. Teachers can use the data and feedback provided by artificial intelligence to better understand students' learning status and provide strong support for teaching. At the same time, teachers can provide personalized guidance and suggestions based on students' characteristics and needs, helping them better master translation skills and methods. Finally, teachers can also utilize artificial intelligence technology to improve their teaching level and professional competence. Teachers can use the data and feedback provided by artificial intelligence to continuously optimize teaching strategies and methods, improve their teaching level and professional competence. In

short, although artificial intelligence has many advantages in English translation teaching, it cannot replace the role of teachers. We need to combine artificial intelligence with human teachers, leveraging their respective strengths to provide students with more comprehensive and personalized educational support.

### **3.2.3. Technical Limitations**

At present, artificial intelligence technology is not yet mature, and there may be problems such as misjudgment and mistranslation, which affect teaching effectiveness. When exploring the role of artificial intelligence in English translation teaching, we must face the technological limitations it faces. Although artificial intelligence has made significant progress in the field of natural language processing, its technological limitations cannot be ignored in the complex scenario of English translation teaching. Firstly, artificial intelligence has limitations in understanding context and semantics. Translation is not only about the correspondence of vocabulary, but also involves understanding various aspects such as context, culture, and habits. However, current artificial intelligence technology still falls short in understanding and processing these deep level linguistic information. This may result in the translation being stiff or inaccurate in the actual context, even though the literal meaning is correct. Secondly, artificial intelligence faces challenges in dealing with linguistic diversity and variability. As a widely used language, English's vocabulary, grammar, and expressions are constantly changing and developing. However, artificial intelligence technology often relies on fixed algorithms and models, making it difficult to fully adapt to this dynamic change. In addition, artificial intelligence also has shortcomings in emotional understanding and expression. Translation is not just the conversion of text, but also the transmission of emotions. However, current artificial intelligence technology still needs to improve in understanding and expressing human emotions. In summary, although artificial intelligence has potential in English translation teaching, its technological limitations also require us to maintain a rational and objective attitude. We need to fully utilize artificial intelligence technology while paying attention to teacher guidance and student practice, to jointly promote the development of English translation teaching.

## **4. The Prospect of English Translation Teaching Mode Based on Artificial Intelligence**

### **4.1. Combining Traditional Teaching Methods for Innovative Translation Teaching**

In English translation teaching based on artificial intelligence, traditional teaching models should be fully integrated, teachers should play a guiding role, and students' emotional needs should be taken into consideration. With the continuous development of technology, artificial intelligence technology has begun to be applied in English translation teaching. However, the application of artificial intelligence in English translation teaching is not to replace traditional teaching methods, but to combine them with innovative teaching.

Firstly, artificial intelligence can provide students with a more personalized learning experience. In traditional teaching models, teachers often need to face a large number of students, making it difficult to achieve personalized teaching for each

student. Artificial intelligence can provide more personalized learning advice and resources based on students' learning situations and needs, helping students better master translation skills and methods.

Secondly, artificial intelligence can provide teachers with more accurate teaching feedback. In traditional teaching models, teachers often need to manually evaluate and provide feedback on students' homework and performance. Artificial intelligence can analyze and evaluate students' translation results through natural language processing technology, providing teachers with more accurate teaching feedback and suggestions, and helping teachers better understand students' learning status and needs.

In addition, artificial intelligence can provide students with more diverse learning resources. In traditional teaching models, teachers often can only provide limited textbooks and practice materials. AI can provide students with more abundant and diversified learning resources through the Internet and big data technology, and help students better master translation knowledge and skills.

Finally, artificial intelligence can also provide teachers with more efficient teaching tools. In traditional teaching models, teachers often need to spend a lot of time and energy on lesson preparation and instructional design. Artificial intelligence can provide teachers with more efficient teaching tools and auxiliary means through automation technology, helping them better complete teaching tasks and improve teaching effectiveness.

In short, the application of artificial intelligence in English translation teaching needs to be combined with traditional teaching models for innovative teaching. We need to fully utilize the advantages of artificial intelligence technology to provide more comprehensive and personalized educational support for teachers and students, and jointly promote the development of English translation teaching.

### **4.2. Improving Technological Maturity**

The application of artificial intelligence technology has become a trend in English translation teaching. However, in order to better apply artificial intelligence technology in English translation teaching, we need to continuously improve its technological maturity, develop more advanced translation algorithms and models, and enhance the accuracy and stability of artificial intelligence in English translation teaching.

Firstly, we need to enhance the natural language processing capabilities of artificial intelligence. In English translation teaching, artificial intelligence needs to understand and process a large amount of language information, including vocabulary, grammar, context, and other aspects. Therefore, we need to continuously optimize natural language processing algorithms and technologies to improve the understanding and expression abilities of artificial intelligence.

Secondly, we need to strengthen the cultural understanding and expression ability of artificial intelligence. English, as a widely used language, contains rich cultural connotations and expressions behind it. Therefore, we need to integrate more cultural information and expression methods into artificial intelligence technology to improve its accuracy and fluency in practical applications.

In addition, we also need to strengthen the emotional understanding and expression ability of artificial intelligence. Translation is not just the conversion of text, but also the

transmission of emotions. Therefore, we need to integrate more emotional understanding and expression abilities into artificial intelligence technology, so that it can better understand human emotions and expressions, and improve its effectiveness in practical applications.

Finally, we need to strengthen the security and privacy protection of artificial intelligence. In English translation teaching, artificial intelligence needs to handle a large amount of personal and sensitive information of students. Therefore, we need to strengthen the security and privacy protection of artificial intelligence to ensure effective protection of students' information security and privacy.

In short, to achieve the application of artificial intelligence in English translation teaching, we need to continuously improve its technological maturity. This requires continuous optimization and innovation in natural language processing, cultural understanding, emotional understanding, security, and privacy protection to promote the application and development of artificial intelligence in English translation teaching.

### 4.3. Optimizing the Learning Experience

The application of artificial intelligence technology has become a trend in English translation teaching. However, in order to better apply artificial intelligence technology in English translation teaching, we need to optimize the learning interface, improve interactivity, and enhance students' learning experience based on their personalized needs.

Firstly, artificial intelligence can provide students with a more personalized learning experience. In traditional teaching models, teachers often need to face a large number of students, making it difficult to achieve personalized teaching for each student. Artificial intelligence can provide more personalized learning advice and resources based on students' learning situations and needs, helping students better master translation skills and methods.

Secondly, artificial intelligence can provide students with more efficient learning methods. In traditional teaching models, students often need to master translation knowledge and skills through extensive practice and repeated memorization. Artificial intelligence can provide students with more efficient learning methods and auxiliary tools through automation technology, helping them master translation knowledge and skills faster.

In addition, artificial intelligence can provide students with more diverse learning resources. In traditional teaching models, teachers often can only provide limited textbooks and practice materials. AI can provide students with more abundant and diversified learning resources through the Internet and big data technology, and help students better master translation knowledge and skills.

Finally, artificial intelligence can also provide students with more interactive and interesting learning experiences. In traditional teaching models, students often have to passively receive explanations and guidance from teachers. Artificial intelligence can provide students with more interactive and interesting learning experiences through interactive technology and gamified learning, stimulating their interest and motivation in learning.

In short, to achieve the application of artificial intelligence in English translation teaching, we need to continuously optimize students' learning experience. This requires us to constantly innovate and optimize in personalized teaching, efficient learning, diverse resources, and interactive fun, in

order to promote the application and development of artificial intelligence in English translation teaching.

### 4.4. Expanding Application Scenarios

The application of artificial intelligence technology has become a trend in English translation teaching. However, in order to better apply artificial intelligence technology in English translation teaching, we need to continuously expand its application scenarios and apply AI technology to a wider range of English translation teaching scenarios, such as online education, mobile learning, etc., to meet the needs of different learners.

Firstly, artificial intelligence can provide students with more comprehensive learning support. In traditional teaching models, teachers often can only provide limited textbooks and practice materials. AI can provide students with more comprehensive and personalized learning support and auxiliary means through the Internet and big data technology to help students better master translation knowledge and skills.

Secondly, artificial intelligence can provide teachers with more efficient teaching tools. In traditional teaching models, teachers often need to spend a lot of time and energy on lesson preparation and instructional design. Artificial intelligence can provide teachers with more efficient teaching tools and auxiliary means through automation technology, helping them better complete teaching tasks and improve teaching effectiveness.

In addition, artificial intelligence can provide students with more diverse learning resources. In traditional teaching models, teachers often can only provide limited textbooks and practice materials. AI can provide students with more abundant and diversified learning resources through the Internet and big data technology, and help students better master translation knowledge and skills.

Finally, artificial intelligence can also provide more intelligent services for the translation industry. With the acceleration of globalization, the demand for the translation industry is constantly increasing. Artificial intelligence can provide more intelligent services for the translation industry through natural language processing technology and big data analysis technology, improving translation efficiency and quality.

In short, to achieve the application of artificial intelligence in English translation teaching, we need to constantly expand its application scenarios. This requires continuous innovation and expansion in learning support, teaching tools, learning resources, and industry services to promote the application and development of artificial intelligence in English translation teaching.

## 5. Summary

The research on the teaching mode of English translation based on artificial intelligence is a topic of great significance. Through this study, we can better understand the current status and prospects of the application of artificial intelligence in English translation teaching, and provide more scientific, efficient, and personalized teaching modes and methods for English translation teaching. The English translation teaching model based on artificial intelligence has obvious advantages in improving teaching effectiveness and personalized learning, but it also has certain limitations. In the future, we should fully integrate traditional teaching models, continuously improve technological maturity, optimize learning experiences, and expand application scenarios to realize

greater value of artificial intelligence in the field of English translation teaching. In this study, we analyzed the application scenarios and technological maturity of artificial intelligence in English translation teaching, and proposed strategies and methods to optimize learning experience and expand application scenarios. At the same time, we also discussed the development trends and challenges of artificial intelligence in English translation teaching, and proposed corresponding strategies and suggestions. The conclusion of this study is that the English translation teaching model based on artificial intelligence has important application value and development prospects. By continuously optimizing technological maturity and expanding application scenarios, artificial intelligence can provide more scientific, efficient, and personalized teaching modes and methods for English translation teaching, improving students' learning effectiveness and experience. At the same time, we also need to recognize that artificial intelligence still faces some challenges and limitations in English translation teaching, and continuous technological innovation and application practice are needed to promote its development and application. In the future, we need to continue to pay attention to the application and development of artificial intelligence in English translation teaching, strengthen technological research and innovation, promote the deep integration of artificial intelligence and English translation teaching, and provide more comprehensive, efficient, and intelligent services and support for English translation teaching.

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