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The Relationship between ChatGPT Technology and International Chinese Education

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Abstract: This paper studies the mutual aid relationship between ChatGPT technology and international Chinese education. ChatGPT technology has many applications related to international Chinese education, including intelligent education assistance system, oral expression practice and so on. At the same time, the field of international Chinese education can also provide rich data sets and needs to promote the research and development of ChatGPT technology.

Keywords: International Chinese Education; ChatGPT.

1. Introduction

At present, Chinese has become one of the most important languages in the world, especially in the international political, economic, cultural and other fields play an increasingly important role. As a foreign language of Chinese, the development of international Chinese education has attracted more and more attention from educators and learners around the world. However, in the face of the growing demand for Chinese learning, international Chinese education also faces many problems and challenges, such as: imperfect teaching system, shortage of teaching resources, uneven level of teachers, and lack of students' interest in learning. How to improve the quality and effect of international Chinese education and promote its sustainable development has become an urgent problem to be solved. ChatGPT is a new type of artificial intelligence application that can simulate human conversations, solve users' problems, and has some self-learning ability. In international Chinese education, ChatGPT can be used as a new educational tool to help teachers and students improve the quality and effectiveness of education and achieve sustainable development. ChatGPT can enable students to better understand and master Chinese language, culture, history and other related knowledge through various forms of interaction, and improve their cognition and interest in Chinese. Moreover, ChatGPT can provide Chinese teachers with teaching AIDS, enabling them to better plan and manage their own time, master the teaching progress, improve teaching efficiency, and conduct timely education and teaching evaluation, so as to better guide and help students to gradually realize self-worth and growth.

2. Advantages and Functions of ChatGPT in International Chinese Education

(1) Personalized teaching

Personalized teaching is an important application of ChatGPT in the field of international Chinese education. ChatGPT's artificial intelligence technology can conduct in-depth analysis of learning level, knowledge level, learning habits and other aspects by collecting students' learning data, and provide personalized teaching programs. It can also provide educational resources and teaching suggestions that meet the actual situation of students according to their learning situation and personal needs. For example, according to students' age, Chinese language level and birth area and other relevant information, to provide students with a variety of teaching resources and courses in line with their ability level and interests, to improve students' learning efficiency and interest.

Course design: ChatGPT provides diversified teaching resources and courses according to students' language level, learning purpose, personality characteristics and learning habits, etc., which are in line with students' ability level and interests, and enhance students' learning autonomy and participation. Learning assessment: ChatGPT conducts regular learning assessment according to the learning situation of students, analyzes the learning effect and results, realizes the true personalization of teaching, gives timely feedback, adjusts teaching strategies, and ensures that students successfully achieve their learning goals. Outstanding knowledge points: By understanding students' learning process and knowledge reserve, ChatGPT can find out students' possible problems, and provide targeted answers and explanations of knowledge points to promote students' in-depth understanding of this field. Assisted teaching: ChatGPT combines its own language understanding and generation ability with Chinese textbooks to annotate and translate textbook content, saving time and improving efficiency, helping students to develop interest in learning content and improving learning effect. ChatGPT uses personalized teaching strategies to enable teachers to better adapt to various students' learning abilities and degrees, and provide students with customized learning plans, making students' learning more targeted and effective. At the same time, this customized learning plan can also enhance students' confidence and interest in learning, so that they are more actively involved in learning, thereby improving the quality and efficiency of learning.

(2) Diversified teaching

Diversified education can cater for the learning needs and interests of different students, so that students can choose the learning style and content more freely. At the same time, diversified teaching can promote students to cross the cultural threshold, expand their vision and cognition, and achieve common progress and cultural exchange. In international Chinese education, ChatGPT uses its own artificial intelligence technology to achieve the following performance in diversified teaching:

Diverse educational content: ChatGPT provides rich and diverse educational content and resources, such as reading, writing, speaking, listening, culture, history and many other aspects, so that students can contact and learn Chinese in different ways. Multi-channel teaching method: ChatGPT connects various types of students and schools around the world through video, audio, text and other forms, allowing students from different regions and cultural backgrounds to learn Chinese together on the same online platform. Diverse student needs: ChatGPT is able to better understand and meet the needs of students, personalized teaching according to different students' language level, learning purpose, learning curve, cultural background, etc. Multi-language support: ChatGPT supports text and voice input and output in multiple languages to promote Chinese education globally and meet the Chinese learning needs of students from different language backgrounds around the world.

(3) Interactive teaching

Interactive teaching can enhance students' participation and enthusiasm, deepen students' interest and understanding of Chinese, build a good educational environment, and improve students' Chinese level and oral expression ability. In international Chinese education, ChatGPT uses its own artificial intelligence technology to perform the following in interactive teaching: Intelligent question and answer: ChatGPT can do intelligent question and answer, and automatically give corresponding answers or solutions according to students' questions, helping students quickly solve doubts and deepen their understanding of Chinese knowledge. Voice dialogue: ChatGPT can have a vivid and cordial dialogue with students through voice interaction, so that students feel that they are having real interpersonal interaction, and improve students' learning interest and self-confidence. Group discussion: ChatGPT is able to arrange group discussions for teachers, increase opportunities for interaction and collaboration, promote communication and exchange among students, and expand students' knowledge and vision. Personalized feedback: ChatGPT can intelligently recommend learning materials and knowledge points for students according to their learning situation and feedback, and timely adjust teaching strategies and course arrangements to help students learn more efficiently.

ChatGPT uses artificial intelligence technology to provide intelligent educational solutions to help students better enjoy the fun of learning Chinese, help teachers better teach, and promote cooperation and development of international Chinese education.

(4) Develop a new curriculum

The personalized, intelligent, interactive and innovative curriculum can facilitate students to choose appropriate courses according to their needs, interests and learning level, and improve their Chinese language level and cultural literacy through independent learning, communication and interaction. In international Chinese education, ChatGPT uses its own artificial intelligence technology to develop new courses in the following ways: Course personalization: ChatGPT can use natural language processing technology to intelligently evaluate, suggest and correct students' spoken language, and recommend personalized learning materials and courses for students based on their learning feedback and assessment results. Course intelligence: ChatGPT can automatically collect students' learning data and conduct statistical analysis of students' learning performance, and automatically optimize and adjust course content and design through machine learning and other technologies to make the learning process more intelligent. Course interaction: ChatGPT can divide students into different study groups, carry out group discussion and interaction, encourage communication and collaboration among students, and promote mutual learning and mutual help among students while stimulating students' learning interest and interaction. Course innovation: ChatGPT can combine speech recognition and natural language processing technology and adopt artificial intelligence dialogue system to provide students with an innovative and pleasant Chinese learning experience, and students can enjoy the learning process more easily and happily in the process of interaction.

ChatGPT uses algorithms and systems based on artificial intelligence technology to conduct in-depth analysis and identification of Chinese reading, writing, speaking, listening and culture, providing a humanized course experience and innovative solutions that can promote the quality and efficiency of teaching and learning in international Chinese education.

(5) Share resources

Resource sharing will promote the globalization and diversified development of Chinese education, so that more students and teachers can access high-quality Chinese education resources, so as to improve the efficiency and level of Chinese learning. In international Chinese education, ChatGPT uses its own artificial intelligence technology to share resources in the following ways: Chinese textbook resources sharing: ChatGPT can integrate different textbook resources, including books, audio, video, images, etc., to share through the network, so that students can more easily access to high-quality Chinese textbook resources. Sharing of supporting practice resources: ChatGPT can provide supporting Chinese teaching resources such as small tests and exercises for students to choose independently, so that students can consolidate and deepen the application of Chinese knowledge and skills. Teaching courseware sharing: ChatGPT can provide high-quality teaching courseware and multimedia materials, including PPT, videos, pictures, etc., for teachers to use, so that teachers can teach the textbook more simply, accurately and vividly. Multimedia teaching resource sharing: ChatGPT can integrate a variety of multimedia resources, including singing, dancing, movies, etc., so that students can learn Chinese knowledge and culture more easily, happily and easily.

ChatGPT uses artificial intelligence technology to provide rich Chinese learning resources, which can help teachers and students better enjoy the fun of Chinese learning, create a more interactive and creative teaching environment, and provide a good foundation and support for international Chinese education exchanges and cooperation.

3. Existing Problems and Challenges in International Chinese Education

The observation of the development of international Chinese language education shows that although the interest in Chinese language learning has gradually increased in recent years, it still faces a series of problems and challenges for international Chinese language education. The following are some of the main problems and challenges: Imperfect teaching system: The teaching system of international Chinese education lacks unified standards and universally recognized teaching system and curriculum system, which

makes it difficult for international Chinese education to achieve uniformity and universality. Shortage of teaching resources: Due to the rapid growth of Chinese learning and the global appeal of Chinese learning, the phenomenon of users "rushing out" has also followed. For international students in poor areas, it is often difficult for them to obtain high-quality teaching resources, learning materials and corresponding educational services. Uneven proficiency of teachers: The level of international Chinese education practitioners, including teachers, is uneven, resulting in the lack of effective guidance and supervision in the teaching process. Some teachers are not professional enough in Chinese education, the curriculum lacks depth and macro vision, and the language expression ability is poor, all of which restrict the development of international Chinese education. Lack of students' interest in learning: Since Chinese teaching usually focuses on basic skills such as grammar, translation, reading and writing, it is too boring and difficult for students and fails to meet their learning interests and needs well, which will lead to a lack of students' interest in learning, thus affecting their grades and learning effects.

4. The Future Development Trend and Prospect of ChatGPT

As a new kind of natural language processing technology, ChatGPT has a wide prospect and application potential in the field of international Chinese education. Specifically, ChatGPT's future prospects and application potential in the field of international Chinese education are mainly reflected in the following aspects:

Language learning assistance: ChatGPT technology can provide personalized language learning assistance services according to students' language background and differences, such as online interactive dialogue, writing correction and speech recognition functions, providing more accurate and efficient language learning support. Cultural understanding and communication: ChatGPT technology can play a role as a bridge of cross-cultural communication in the field of international Chinese education. ChatGPT senior "people" can help foreign students better understand Chinese culture, customs and social phenomena, and facilitate communication and exchange. Teaching management and evaluation: ChatGPT technology can be used as an intelligent teaching management and evaluation tool to provide accurate communication, feedback and guidance between teachers and students, and provide better management and evaluation means for teachers. Artificial Intelligence assistant: ChatGPT technology can play the role of artificial intelligence assistant, combined with the Internet and cloud computing and other technical means, to provide online learning resources, homework and tests and other teaching support services, to provide students with more convenient and comprehensive learning guidance.

ChatGPT technology has a wide range of application prospects and potential in the field of international Chinese education, which can help students improve their language learning level, promote cultural understanding and communication, provide accurate teaching management and evaluation, and provide comprehensive teaching support services as an artificial intelligence assistant. Therefore, ChatGPT technology will become one of the important technical supports in the field of international Chinese education in the future, and will gradually be widely used in the field of international Chinese education.

5. Conclusion

The current research indicates that the relationship between ChatGPT technology and international Chinese education has a wide range of application prospects and potential. From the perspective of application, ChatGPT technology can be used to develop intelligent learning manager, intelligent assessment system, knowledge question and answer service and language expression practice, etc., providing new solutions and technical support for the field of international Chinese education. From the technical point of view, ChatGPT technology shows strong advantages and flexibility in coping with multi-language differences, personalized needs, self-adaptability and other aspects. However, there are also shortcomings in data problems, diversity support problems, excessive model dependence problems and ethical issues. Finally, from the perspective of future research and development trends, ChatGPT technology needs to strengthen its integration with the international Chinese education field, develop more diversified and intelligent technologies, improve the ability of data quality and diversity support, strengthen ethical protection and knowledge popularization, and bring ChatGPT technology to greater potential in the international Chinese education field.

The application of ChatGPT technology in international Chinese education still has data problems, diversity support problems, excessive model dependence problems and ethical problems. In order to give full play to the application potential and role of ChatGPT technology in the field of international Chinese education, the relationship between ChatGPT and international Chinese education can be further improved and the development of international Chinese education can be promoted through various efforts and improvements.

References

[1] Wang Zhimin, Wang Yifan, Xu Yue. Research on the Application and Trends of Intelligent Technologies in International Chinese Education [J]. Chinese Language Teaching and Research, 2025, (01): 9-21.

[2] Gao Anna. A Self-Narrative Inquiry into the Use of ChatGPT in Assisting International Chinese Teaching: Opportunities and Challenges [C]// Research on the Modernization of Chinese Teaching -- Thematic Collection in 2024. School of International Chinese Studies, East China Normal University, 2024: 12.

[3] Li Hui, Liu Liang, Li Yanling. ChatGPT from the Perspective of Educational Technology: An Analysis of Its Application in International Chinese Education [J]. China Educational Technology & Equipment, 2024, (22): 7-11.

[4] Xiang Yingping, Zhao Xuede. Strategies Adjustment for International Chinese Teachers to Deal with ChatGPT [J]. Journal of Zhejiang University of Science and Technology, 2024, 36(02): 142-150.

[5] Liu Yan. The Influence of Artificial Intelligence Technology on International Chinese Education and Countermeasures -- Against the Background of the Emergence of ChatGPT [J]. China Modern Educational Equipment, 2023, (09): 16-18.