

Conference track «Digital transformation of education and new learning technologies»

Comparative analysis of English teaching in Russia and China in the context of ChatGPT

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With the rapid development of artificial intelligence technology, ChatGPT, as a powerful natural language processing tool, is changing the field of education. ChatGPT (Generative Pretrained Transformer) is a deep learning-based artificial intelligence chatbot launched by the OpenAI laboratory in the United States in 2022. It can analyze large amounts of text data and maintain contextual coherence during multiple rounds of dialogue, thereby generating natural responses similar to human language.

In March 2023, OpenAI further launched the GPT-4 model, which introduced multi-modal capabilities and supported multiple input forms such as images, greatly expanding its scope of application. ChatGPT's core technologies include deep learning and natural language processing (NLP), and its potential for educational applications has attracted widespread attention. It can not only be used as an aid for language learning, providing a personalized learning experience, but also help students correct mistakes and improve learning efficiency through an automatic feedback and assessment mechanism. In addition, ChatGPT also shows unique advantages in translation and cross-cultural learning, helping students better understand the cultural background behind different languages [1].

Despite ChatGPT's enormous potential for language education, its use in different education systems varies greatly, especially in Russia and China. In Russia, English education focuses on language and literature and theoretical foundations, with teachers playing a key role in the teaching process, while ChatGPT is often used as an after-school supplementary tool to help students learn cultural backgrounds and practice speaking. In China, English education focuses more on exams and standardized tests, and ChatGPT is mainly used in China to simulate exams and practice questions, especially in the writing and listening sections. By interacting with ChatGPT, students can simulate real exam scenarios and get instant feedback and improvement suggestions. ChatGPT also provides students with vocabulary expansion and grammar correction services to help them achieve better exam results [2].

The acceptance and popularity of technology is also an important reflection of the differences in application between the two countries. Russia has been relatively early in the application of educational technology, and students and teachers have a high level of acceptance of artificial intelligence tools, which has made ChatGPT an important part of classroom learning. In China, despite the relatively high acceptance of technology, AI tools are more dependent on large education platforms, especially in first-tier cities, and acceptance of ChatGPT is gradually increasing. As educational reforms deepen, AI tools are increasingly used in classrooms, but their popularity is still limited due to the uneven distribution of regional educational resources[3].

The use of ChatGPT in language teaching has multiple advantages. First, as a virtual language learning partner, it provides around-the-clock opportunities for language communication, breaking the time constraints of traditional classrooms. Through interactions with ChatGPT, students can engage in simulated conversations, correct grammatical errors, and access a variety of learning materials. More importantly, ChatGPT can customize learning content based on

students' learning needs and levels, enabling a personalized learning experience [4]. Second, ChatGPT's automatic feedback and assessment mechanism is very convenient for both teachers and students. It can quickly analyze students' writing or speaking samples and provide instant corrections in grammar, vocabulary, and pronunciation. This instant feedback not only improves students' learning efficiency, but also helps teachers better understand students' learning progress and adjust teaching strategies accordingly [5]. ChatGPT also plays an important role in translation and cross-cultural learning. It not only provides bilingual translation functions, but also helps students understand the cultural background of different languages. By interacting with ChatGPT, students can better grasp the nuances of language and develop cross-cultural communication skills. Finally, ChatGPT is also extremely useful for language test simulations and oral and written exercises. It can generate simulated test questions and adjust the difficulty in real time based on the student's performance, thereby helping students prepare for exams [6].

This article aims to analyze the use of ChatGPT in English language teaching in Russia and China, and to reveal its characteristics and advantages in different educational environments. The scope of the research includes educational culture, technology acceptance, language learning needs, and the specific ways ChatGPT is used in teaching in the two countries. The English education environment in Russia is centered on literary and theoretical foundations, emphasizing the depth of language learning and cultural understanding. The dominant role of the teacher is emphasized, and the learning process of students is relatively systematic and comprehensive. In contrast, English education in China is exam-oriented, with an emphasis on test scores and standardized tests [7]. This model of education makes students more focused on vocabulary memorization, grammar mastery, and test-taking skills during the language learning process. The educational approaches and goals of the two countries also reflect this difference: Russia focuses on cultivating students' language literacy and intercultural competence, while China emphasizes practical language application and test scores.

The application of ChatGPT in English teaching in Russia and China shows different application characteristics. Despite the differences in educational culture, technology acceptance, and language learning needs, ChatGPT plays an important role in improving students' language skills and providing teaching aids for teachers. With the continuous development of artificial intelligence technology, ChatGPT's importance in the global education system will further increase, especially in the promotion of cross-cultural language teaching and personalized learning experiences. Future research can further explore the application of ChatGPT in teaching other languages and how to better integrate artificial intelligence tools to optimize the education process.

References

- 1) Архипов В. В., Наумов В. Б., Смирнова К. М. Пределы принятия юридически значимых решений с использованием искусственного интеллекта. Вестник Санкт-Петербургского университета. Право. 2021. Т. 12. № 4. С. 882–906.
- 2) Косоруков А.А. Технологии искусственного интеллекта в современном государственном управлении. Социодинамика. 2019. № 5. DOI: 10.25136/2409-7144.2019.5.29714. URL: https://nbpublish.com/library_read_article.php?id=29714
- 3) Новикова И.В., Самайбекова З.К. Современные технологии стратегического управления персоналом в условиях инновационного развития предпринимательских структур. Управленческое консультирование. 2024;(1):84-95. <https://doi.org/10.22394/1726-1139-2024-1-84-95>
- 4) Талалина, Эльвира В. Искусственный интеллект и правовые экспертизы в государственном управлении. Вестник Санкт-Петербургского университета. Право 4: 865–881, 2021. <https://doi.org/10.21638/spbu14.2021.404>

- 5) Özkiziltan, D. Melanie Mitchell: Artificial intelligence—a guide for thinking humans. Genetic Programming and Evolvable Machines 23, 581–582 (2022). <https://doi.org/10.1007/s10710-022-09439-7>
- 6) Архипов В. В., Наумов В. Б., Смирнова К. М. Пределы принятия юридически значимых решений с использованием искусственного интеллекта. Вестник Санкт-Петербургского университета. Право. 2021. Т. 12. № 4. С. 882–906.
- 7) Горян Э.В. Национальные подходы к применению искусственного интеллекта: опыт Сингапура. Юридические исследования. 2020. № 8. DOI: 10.25136/2409-7136.2020.8.33919. URL: https://nbpublish.com/library_read_article.php?id=33919