

Innovation in English Language under AIGC Technology: A Reexamination of Meaning and Communication in Language Philosophy

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Abstract: AIGC technology is a new technology with wide application prospect. This study focuses on English language innovation under AIGC technology, aiming at re-examining the meaning and communication in language philosophy. Through the comprehensive use of literature analysis, empirical research and case analysis, this study deeply discusses how AIGC technology promotes the innovation of English language, and further analyzes how these innovations affect the construction of meaning and the realization of communication at the level of language philosophy. The results show that AIGC technology presents remarkable innovation in English language, including the creation of vocabulary, the variation of syntactic structure and the richness of semantic expression. These innovations have challenged the traditional philosophy of language to some extent, especially in the aspects of meaning and the essence of communication. AIGC technology not only expands the expressive ability of language, but also provides more possibilities for communication, making the process of meaning construction more dynamic and diverse.

1. Introduction

Artificial intelligence in game creation refers to a new technology that uses artificial intelligence technology to assist game creation or control process. This technology extracts rules and patterns from a large number of game data through machine learning, deep learning and natural language processing, and then generates elements such as game content, level design, role behavior, or creates a game control mode with artificial intelligence characteristics for players [1-2]. The application of AIGC technology is not limited to the field of games, but it has shown great potential in many fields such as text generation, image generation, audio and video creation and generation, film production, scientific research and innovation, code generation, content understanding and analysis [3].

At present, with the rapid development of artificial intelligence technology, AIGC technology, as an important branch, is profoundly affecting all aspects of human society. In the field of language, the wide application of AIGC technology not only changed people's language habits, but also promoted the innovation of English and other languages [4]. This innovation is not only reflected in the level of vocabulary, grammar and other language forms, but also goes deep into the essence of language meaning and communication function [5]. Therefore, this study has important theoretical and practical significance, which helps us to better understand the language change under the AIGC technology, and the challenge and renewal of this change to the traditional view of language philosophy.

The main purpose of this study is to explore how AIGC technology promotes the innovation of English language, and analyze how these innovations affect the construction of meaning and the realization of communication at the level of language philosophy. Specific research questions include: How is AIGC technology applied in English language? How does this application promote the innovation of English language? How have these innovations influenced the traditional views on meaning and communication in language philosophy?

2. Meaning and communication in philosophy of language

2.1. Traditional meaning and communication theory

In traditional philosophy of language, meaning and communication are two closely related concepts. Meaning is usually regarded as the content or reference represented by language symbols, that is, the entities or concepts in the external world pointed by words and sentences [6]. Communication, on the other hand, is regarded as the process of transmitting meaning between the sender and the receiver through language symbols. According to the traditional theory, there is a fixed and clear relationship between language symbols and meaning, and the purpose of communication is to ensure that this relationship is accurately transmitted between the two parties.

However, this traditional view shows some limitations in the face of the rapid development of modern language technology [7]. In particular, the emergence of AIGC technology makes the generation and understanding of language symbols no longer completely dependent on human subjects, but can be simulated and realized through algorithms and data.

2.2. Meaning and communication from an emerging perspective

Facing the challenge of AIGC technology, philosophy of language needs to re-examine the concepts of meaning and communication. In the emerging perspective, meaning is no longer regarded as a fixed entity, but as a dynamic construction process [8]. In this process, language symbols, context, cognitive subject and social and cultural factors work together to generate and understand meaning. At the same time, communication is no longer a simple information transmission process, but a complex interaction involving cognition, emotion, intention and other levels. As shown in Figure 1.

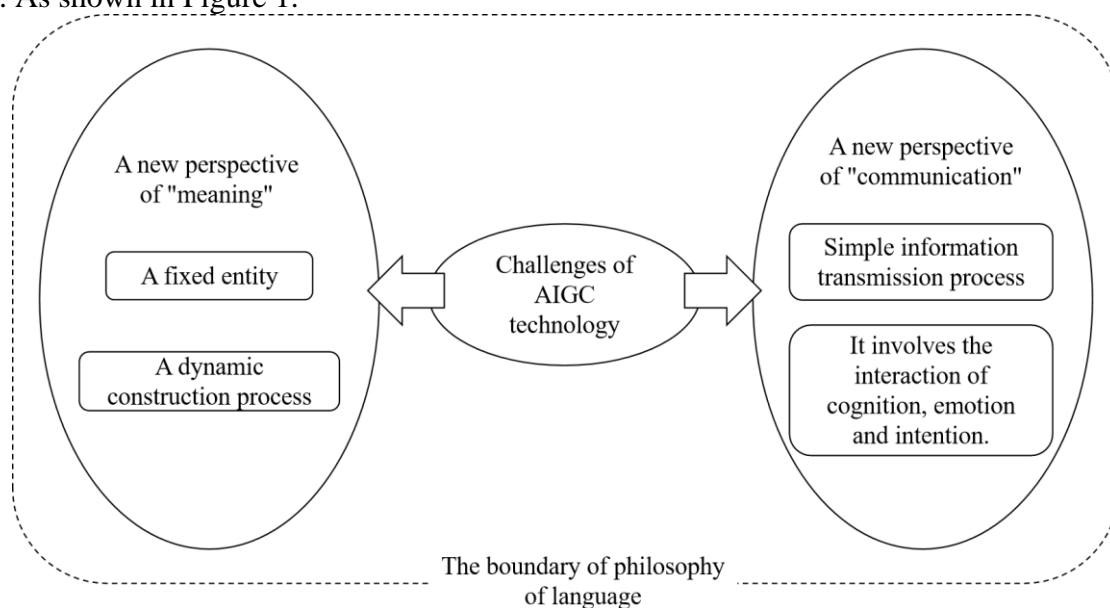


Figure 1 A new perspective of language philosophy under the challenge of AIGC technology

The concept of meaning and communication from this new perspective is more in line with the actual development of modern language technology, and also provides new ideas and methodological guidance for the future study of language philosophy.

2.3. The challenge of AIGC technology to traditional theory

The wide application of AIGC technology poses a severe challenge to the theory of meaning and communication in traditional philosophy of language. In terms of meaning construction, AIGC technology can mine new words, phrases and expressions from massive texts through big data analysis, machine learning and other methods. The meanings of these emerging language elements are often not determined by traditional language rules, but dynamically generated by algorithms according to the context [9]. This dynamic nature makes the relationship between language symbols and meanings more flexible and changeable. In terms of communication, AIGC technology has

broken the time and space restrictions in the traditional communication mode, which has fundamentally changed the interaction between the sender and the receiver of information. For example, through intelligent voice assistants or chat bots, people can have a natural language conversation with computers, and realize instant transmission and feedback of information. This new communication mode not only improves the communication efficiency, but also enables the computer to have the ability to understand and respond to human emotions to a certain extent.

3. Interpretation of the significance of English language innovation

3.1. Lexical innovation and its significance

Driven by AIGC technology, English vocabulary innovation has become a remarkable language phenomenon. These new words not only enrich the English vocabulary, but also reflect the latest development trends in social, scientific and cultural fields [10]. The significance of vocabulary innovation is mainly reflected in the following aspects: enhancing the expressive power and accuracy of language; An important carrier to record and reflect social and cultural development; Promote cross-language and cultural exchanges and integration. See Table 1 for details.

Table 1 The significance of vocabulary innovation

The Significance of Lexical Innovation	Specific description
Enhance the expressive power and accuracy of language	New words can describe and express new things, new concepts and new ideas more accurately, enrich the language and improve the accuracy and efficiency of communication.
Record and reflect social and cultural development	The introduction and spread of new words are closely related to the changes of social culture. They have become an important symbol and carrier of social and cultural development, recording the changes of the times and social progress.
Promote cross-language and cultural exchanges and integration.	Lexical innovation contributes to the communication and integration between different languages, making English and other languages better adapt to the needs of multicultural communication in the era of globalization, and promoting mutual understanding and cooperation among people all over the world.

3.2. Grammatical structural changes and meanings

In addition to vocabulary innovation, AIGC technology has also promoted the change of English grammatical structure. These changes include the emergence of new grammar rules, the evolution of old grammar rules and the increase of overall complexity of grammar structure. The influence of grammatical structure changes on meaning is mainly reflected in the diversity of sentence structure and expression. The new grammatical structure can often express complex thoughts and emotions more flexibly, thus making the meaning expression of language richer and more delicate. At the same time, the change of grammatical structure also reflects the continuous exploration and innovation spirit of language users for language rules and expressions.

3.3. The expansion and interpretation of pragmatic functions

Pragmatic function refers to the role and function of language in practical use. With the promotion of AIGC technology, the pragmatic functions of English have also been significantly expanded. For example, applications such as intelligent voice assistants and chat bots make English more interactive and instant, thus enhancing its practicality and convenience in practical communication. In addition, with the popularity of online social media, English also carries more social functions and emotional expression functions. The expansion of these pragmatic functions not only enriches the usage scenarios and expressions of English, but also makes English and other languages play a more important role in people's daily life. At the same time, these changes also provide new perspectives and ideas for the study of meaning and communication in the philosophy of language.

4. The communication effect of English language innovation

4.1. The new mode of man-machine communication

With the in-depth application of AIGC technology, man-machine communication has broken through the traditional mode, showing an unprecedented new look. Traditional human-computer interaction is mainly based on preset commands and fixed responses. Now, with the help of natural language processing technology and deep learning algorithm, machines can understand the complexity and diversity of human language more deeply, thus achieving more natural and smooth communication.

In this new mode, machines can not only accurately understand human language instructions, but also provide intelligent responses according to context and context. For example, intelligent assistants can actively provide personalized suggestions and information according to users' daily habits and preferences, which undoubtedly greatly improves the efficiency and experience of human-computer communication.

4.2. Application of language innovation in man-machine communication

English language innovation plays a vital role in human-computer communication. New words, new grammatical structures and the expansion of pragmatic functions all provide machines with richer means of expression and more accurate ways of understanding. For example, in the field of intelligent customer service, by introducing emotion analysis and semantic understanding technology, machines can capture customers' emotions and needs more accurately, thus providing more intimate and efficient services. In addition, English language innovation has promoted the continuous evolution of man-machine dialogue system. These systems can not only carry out simple question-and-answer communication, but also carry out in-depth dialogue and discussion, and even show the knowledge and reasoning ability comparable to that of human experts in some fields.

4.3. Language innovation on interpersonal communication

English language innovation not only has a far-reaching impact on human-computer communication, but also brings significant changes to interpersonal communication. First of all, the emergence of new words and expressions enables people to describe and share their feelings and experiences more accurately, and enhances the depth and breadth of communication. Secondly, the change of grammatical structure and the expansion of pragmatic functions have enriched people's means of expression and communication, making communication more flexible and diverse. More importantly, language innovation has promoted the prosperity of cross-cultural communication. With the acceleration of globalization, the status of English as an international lingua franca has become increasingly prominent. Language innovation makes it easier for people with different cultural backgrounds to understand and accept their differences, and promotes cultural integration and mutual learning.

5. Conclusion and prospect

This study reveals the profound influence of English language innovation under AIGC technology on the theory of meaning and communication in language philosophy. It is found that AIGC technology not only promotes the innovation of English vocabulary, grammar and pragmatic functions, but also brings revolutionary changes to human-computer communication and interpersonal communication. These innovations not only enrich the ways of language expression and communication, but also challenge some viewpoints of traditional philosophy of language, providing new perspectives and ideas for future language research.

Although some achievements have been made in this study, there are still some limitations and deficiencies. First of all, due to the rapid development of AIGC technology and the emergence of new language innovations, this study may not cover all the innovations. Secondly, this study mainly focuses on English language innovation, and may lack sufficient discussion on the phenomena and laws of innovation in other languages. Finally, due to the limitations of research methods and data

sources, the conclusions of this study may have certain regional and timeliness limitations. In view of the above limitations and deficiencies, the future research can be expanded and deepened from the following aspects: (1) continuously pay attention to the latest development trends of AIGC technology, and timely capture and analyze new language innovation phenomena; Expand the research scope and explore the innovation laws and characteristics of different languages under the influence of AIGC technology; Strengthen interdisciplinary cooperation and exchange, and comprehensively use various research methods and data sources to reveal the essence and influence of language innovation more comprehensively and deeply.

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