

Application Analysis of Artificial Intelligence in Computer Technology

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ABSTRACT. *Artificial intelligence is the result of the development of the times. Artificial intelligence is also constantly reforming and innovating following the pace of the times. The increasing application of artificial intelligence in today's society is the best witness to the development of artificial intelligence. As an important core of computers, artificial intelligence is an indispensable part of improvement. It can maximize the needs of contemporary people and improve the efficiency and quality of workers. This article first briefly introduces the concept of artificial intelligence, then briefly analyzes some of the shortcomings in the current application of artificial intelligence and computer applications, focuses on the analysis of the application of artificial intelligence in computer technology, and briefly puts forward suggestions to promote the development of artificial intelligence for the shortcomings.*

KEYWORDS: *Artificial intelligence, Computer, Application analysis*

1. Introduction

Artificial intelligence is an inevitable result of the development of the times. After entering the 21st century, artificial intelligence technology is more and more widely used in daily life, and its role in daily life is also getting greater and greater. Although artificial intelligence technology is increasingly used in various fields, we have to admit that the development of modern artificial intelligence technology has not reached a very mature stage. Based on this, this article briefly introduces the relevant concepts of artificial intelligence, and then briefly analyzes the current status of artificial intelligence in computer technology and analyzes its shortcomings and puts forward relevant suggestions to promote the further development of artificial intelligence.

2. The Concept of Artificial Intelligence

Artificial intelligence is a technology in which people use certain data to store, organize, and recognize certain images and voices according to certain logic, thereby

helping people improve work efficiency and work quality. It is a branch of the development of computer science and technology. Simply it is the work that we need to rely on people to complete in our daily lives. Now we can rely on artificial intelligence to replace people to complete work.

The characteristics of artificial intelligence are mainly reflected in the word “intelligence”, which is mainly manifested in the following two aspects: first, intelligent perception, the identification of items used for photography in our daily life shopping is an important performance of intelligent perception. Second, intelligent learning. With the continuous development, artificial intelligence can learn according to a certain logical order, such as the emergence of AlphaGo can continue to reason and learn [1].

3. Problems in Artificial Intelligence and Network Technology

Artificial intelligence cannot discern the authenticity of objects. With the development of science and technology, artificial intelligence is more and more widely used in our daily life. People rely on their own network technology to organize a large amount of data through irregular and continuous transmission, but for authenticity of data, the technology of artificial intelligence is currently not guaranteed. For example, if you get a lipstick with different quality and different appearance but look the same in shopping. If you take a photo and search, the search bar shows the same appearance style, it is difficult to distinguish whether the lipstick is true or false. As another example, when data personnel record data, they can rely on artificial intelligence to organize the data to a certain extent, but artificial intelligence cannot discern the authenticity of the data.

The security of network science and technology cannot be guaranteed. The online world is a virtual world. We use the computer as a carrier to carry out certain activities, but the safety of storing photos, data, and other data in the computer is difficult to guarantee. This also leads to the frequent occurrence of many photo hackers. Network science and technology itself will not make a quick response when it occurs. It is human nature to make the quickest response to emergencies. For example, if a certain website is attacked by a hacker, the website itself cannot respond to security. The website can only be maintained as soon as when humans discover.

4. Application Analysis of Artificial Intelligence in Computer Technology

1) Remote control and autonomous control. With the continuous development of science and technology, artificial intelligence has been applied in various fields. In addition to helping us improve work efficiency and work quality in daily life, artificial intelligence has realized two functions of self-help planning and remote control, and It has been applied in many fields. For example, in the aerospace field, when a country

needs to send a manned spacecraft into space, the ground can be sent using artificial intelligence. When the pilot arrives in space, the ground operator detects and understands the astronauts based on real-time display data and the state of the rocket in space, when the display data is abnormal, the artificial intelligence system can make instructions based on itself or the instructions issued by the control personnel, and the relevant programs are executed to restore the manned rocket to normal, thereby helping the rocket to run better. Another example is the remote-control car that children play every day. Parents can use this remote control to control the direction of the car within a certain distance, avoiding the situation of unnecessary injuries caused by children driving indiscriminately.

2) Reasonable and effective forecasting to improve competitiveness. Science and technology are constantly developing, and people are constantly making progress. If you combine the field of artificial intelligence with network science and technology, you can achieve a more perfect state, thereby enhancing the influence of enterprises and personal influence. For example, when a person who writes an advertisement about an anti-oxidant mask, the person uses the Baidu index analysis and user avatar, age distribution and other functions to target the group of people who are beyond 25 years old, thereby improving the accuracy of the target audience, making the overall advertisement more beneficial, and the scope of the target population is also more accurate, thereby enhancing the influence of this person in the advertising industry.

3) Improve scientific diagnosis and medical diagnosis efficiency. In the process of continuous development of artificial intelligence, the scope of application is also getting wider and wider, and one of the areas included is the medical field. In the traditional medical field, doctors examine patients by looking at them, and need to fill in cases manually. If it takes a long time, it will cause the loss of the case. If that case is needed, searching is also a big project. Now, people use artificial intelligence to save cases as electronic files, and can more effectively organize and sort different types of cases, and give a certain analysis, which greatly improves the efficiency of work. In addition, doctors use artificial intelligence and scan some parts when diagnosing patients, so as to better see some situations inside the human body, improve the doctor's diagnosis level, and reduce the probability of misdiagnosis.

4) High degree of specialization. People use artificial intelligence to enter data from different fields into a computer, and then the computer system organizes it according to itself, so as to bring together everyone's knowledge and results. The degree of specialization is much higher than that of an expert in a certain field. For example, an expert in the education industry forms its own knowledge system through different learning and absorption, and artificial intelligence absorbs the knowledge of all experts in the education industry and forms a good system, thereby making the degree of specialization higher.

5) Application of artificial intelligence in the field of online education. In terms of language learning: artificial intelligence can help the demanders to read the articles more accurately and clearly. When the students do not know how to pronounce, the robot can perform certain demonstrations to help the students understand their correct pronunciation. For example, when a student learns the English word [bored], and the student does not know how to read it, he can use artificial intelligence software such as Youdao Dictionary, online translator, etc. to demonstrate reading aloud, thereby helping the demander to understand its correct pronunciation. In terms of teaching by teachers: dealing with the mastery of some words, after the students have previewed before class, the artificial intelligence system can analyze the teaching difficulties according to the students' preview, so that the teacher can better grasp the students' knowledge points based on the artificial intelligence system, some knowledge points that the students already understand, and other knowledge points that the teachers need to explained, which greatly improve the efficiency of the classroom.

In terms of teaching methods: each student has its own characteristics, and students in different areas also have their own characteristics. In addition to artificial intelligence processing to help teachers analyze the focus, it can also help students in different regions to conduct regional analysis, thereby teachers better implement suitable educational methods for students, which is a typical application of artificial intelligence in teaching according to their aptitude in education.

6) Application of artificial intelligence in games. Artificial intelligence has an inestimable role in the lives of people in today's society. Games are an entertainment activity that many people play today. As a new era, we don't feel strange to the term "computer game". The application of artificial intelligence in games is also becoming more and more obvious: first, challengers can choose games with different levels of difficulty according to their own levels, and players can choose the ones they want to play the most or are suitable for themselves according to different challenges. Second, developers can set a scene for the game, operate the game task, and set the music background of the game, so that many people can experience a visual and auditory feasts, so that people can get the body and mind relaxed in the process of experience. Third, create another virtual or imperfect game world. For example, different types of game scenes on the market give people different experiences.

7) Application of artificial intelligence in chemical industry. The transportation of natural gas pipelines is carried out underground. Currently, the most commonly used is the cathodic protection technology. Cathodic protection technology refers to the pipeline transportation protection divided into the sacrificial anode method and the applied current method according to the current supply method to make the metal ions in a balanced state. Simply speaking, when one side of the pipeline is corroded and the ions on both sides of the pipeline are in an unbalanced state, the other side can also be corroded so that the ions in the chemical are in a balanced state, which can extend the

life of the pipeline. In this process, it is necessary to use artificial intelligence to monitor the status of pipeline transportation in real time. If it is found that the transportation volume of the section is less than it should be during the transportation process, it may be that the pipeline has been damaged and needs to be repaired to ensure the extension of service life and the stability of natural gas.

8) Application of artificial intelligence in the new media industry. The new media industry is a product derived from the development of science and technology to a certain stage. The industry is full of artificial intelligence everywhere. Staff in this industry make full use of artificial intelligence's data collation and Guinan analysis functions to quickly improve their work efficiency. For example, a new media person operating a public account, in order to improve the reading of its public account, uses the function of crowd portrait and age analysis of WeChat to target audience within a certain range, thereby displaying the article writing scope, which attracts fans' attention to the public account and improves their work efficiency. In addition, the news industry staff can use the Internet to complete a whole interview, and then replace the quick reading notes with an intelligent voice recorder and use its voice to text function to quickly organize and publish it.

5. Recommendations for the Development of Artificial Intelligence

Increase investment and train professionals. Artificial intelligence is a discipline that covers many disciplines such as natural sciences and engineering. For the development and application of artificial intelligence, it is a very long-term investment that is very costly, but it has a bright future. Based on this, the relevant departments should increase investment, set up a special artificial intelligence major, improve the relevant basic settings, and provide a good hardware infrastructure for the development of artificial intelligence.

Promote school-enterprise cooperation and the integration of production, education, and research. For the purpose of learning is to apply in real life, although the history of artificial intelligence development is relatively short, but relatively speaking, great progress has been made. Development is a gradual process, practice in the process of continuous learning, and promote development in the process of continuous practice. Based on this, enterprises in the society have increased their cooperation with some colleges and universities, and they can introduce related welfare systems to attract more talents, promote a high degree of integration of industry, academia, and research, thereby promoting the further development of artificial intelligence.

6. Conclusion

The future world is a world where network science and technology compete with artificial intelligence. Based on this, the development of artificial intelligence has a strategic significance to a country. Although artificial intelligence technology has not reached a very mature stage, but in the process of continuous efforts, reflection, and summary, artificial intelligence will definitely develop.

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