Talking about the Development Status and Future Trend of Computer Artificial Intelligence

Ruilin Xiang
Bishop's Stortford College, 10 Maze Green RdBishop's StortfordHertfordshire, CM23 2PJ

Abstract: With the rapid socio-economic development and continuous improvement of science and technology, artificial intelligence technology came into being. Such modern technology can play an active role in automatic planning and intelligent control and has been widely used in society each field. The emergence of computer artificial intelligence technology, not only reflects the wisdom of mankind, but also highlights the relatively high social value. Therefore, starting from the concept of computer-based artificial intelligence technology, this paper briefly discusses the application and development of computer-based artificial intelligence technology.
Keywords: Development status, Future trend, Computer artificial intelligence

1. INTRODUCTION

In the mid-20th century, a large number of experts and scholars made great efforts to study this technology and achieved good results. For the study of computer AI technology in a certain period of time, it has obtained some remarkable achievements in some aspects. For example, it is obvious that compiling LISP table processing language and so on, and it can be seen through comparison that the other Aspects of research content. In addition, the application of computer artificial intelligence technology will also be subject to a certain extent, which is closely related to the maturity of this technology.

Computer artificial intelligence technology is the cutting-edge technology in the current information technology, which can effectively simulate the human consciousness and thinking through the function of the computer, so as to use the computer to show the human mind. Compared with other computer technologies, this technology has more room for development, but also for the convenience of mankind is also unmatched by other technologies. However, due to the fact that artificial intelligence technology started late in our country, the technology is not mature enough. There are still many problems which need to be further improved. In this paper, we analyze the bottlenecks existing in artificial intelligence recognition technology in our country through many aspects of research and analysis.

2. THE CONCEPT OF COMPUTER ARTIFICIAL INTELLIGENCE TECHNOLOGY

Computer AI is not only a wide range of science and technology, but also involves a large number of different areas of technology, in general, the focus of artificial intelligence research is mainly to enable the machine to achieve part of the past through artificial intelligence to be able to Complete tedious work. However, as society continues to evolve and progress, the "tedious work" referred here does not include the same content. Nowadays, the machine that can be used to study the artificial intelligence technology of computer and can realize artificial intelligence should be a computer. In addition, the development of artificial intelligence technology is also closely related to the development of computer science. Not only computer science, but at the same time artificial intelligence technology is also linked to a variety of disciplines and disciplines such as basic information theory, automation technology, biology, mathematical logic, medicine and linguistics.

3. COMPUTER ARTIFICIAL INTELLIGENCE IN VARIOUS FIELDS OF PRACTICAL APPLICATION

Promote the effective implementation of remote autonomous planning and control. Computer-based artificial intelligence technology enables the remote planning and control of spacecraft from outer space millions of miles away on Earth, for example, by applying a computer intelligence program, an aerospace agency can properly operate, effectively adjust and strictly control spacecraft At present, the United States belongs to the first country in the world to realize remote control through the use of computer artificial intelligence technology. Remote control programs can be effectively combined with well-defined tasks and targets in terrestrial systems in advance, and autonomous planning can be carried out. In addition, it can not only strictly control and dynamically monitor the spacecraft, but also can fully understand the actual operation of the spacecraft And mastery, once found inconsistent with the program, they can promptly issue orders and make adjustments to fully meet the detection, diagnosis and recovery goals, which will help ensure that the spacecraft in the very far away from the outer space can be safe and stable operation.

Reasonable prediction steps to effectively improve the game skills. Applying some of the techniques to chess allows you to break down the tedious issues related to playing chess so that you can divide it into a few minor problems and provide the beneficial information to the chess data so that it is always oriented towards search and problem induction And other aspects of development, which is conducive to chess players to make a reasonable decision. In recent years, the technology is developing faster and faster, and began to be widely used in all walks of life. Although this technology can meet the standard of chess toumament, but it has not been able to effectively solve the expression and observation of

human chess players, people can only do concrete analysis of specific problems, and based on this, we still need to continuously improve.

Vision systems included in computer AI techniques can be used to guide the car along the road. The United States applies this technology to small cars and achieves the goal of two thousand kilometers of advancement under autonomous navigation. Most of the time, the system is used to control the direction of the car, and the rest of the time is mainly carried out by humans control. According to relevant surveys, the parts that need to be controlled by human beings are often roads looking for exports. Therefore, the continuous improvement of this technology can not only promote the system to acquire more and very rich application experiences, but also help to deduce the most ideal Driving direction, which can reasonably control the car's forward direction. Based on this, you can speed up the realization of unmanned target.

Improve the level of medical care and diagnostic accuracy. Computer artificial intelligence technology is widely used in the medical field which can effectively fill the gaps in the traditional medical diagnosis, which will help to improve the level of modern diagnosis. For example, on the basis of probabilistic analysis, medical diagnostic procedures have been gradually applied and obtained very good results. To some extent, this can effectively improve the practice level of experts and physicians. Although some physicians have not come to a consensus on this procedure, examining the patient through the use of this procedure can provide relevant factors that can be useful for judgment. In addition, complications can be explained in detail and the consensus of physicians and experts can be obtained. Computer artificial intelligence technology is widely used in the medical field, both can significantly improve the medical level, but also conducive to the treatment of patients with incurable diseases.

Further reasoning proves that the inference accuracy is significantly improved. Logical reasoning is one of the topics that the research on artificial intelligence in computer technology takes a long time. Under normal circumstances, it is helpful to determine a reasonable and effective solution by digging out and analyzing the event and accurately calculating its feasibility data. It often depends on databases in computer technology once the database is not based make it hard to come up with solutions. Therefore, the application of computer AI technology in related fields not only can obviously improve work efficiency and work quality, but also can further guide its specific work.

Intelligent agent plays an important role in the computer AI technology. The program is applied in the robot system to better grasp the human motivation and emotional state so that it can communicate effectively with human beings. And also be able to express the usual courtesy, for example, say hello. With the normal emotions of the robot, fully realize the premise of human-computer interaction, to complete the more difficult work. In addition, the technology of computer-aided intelligence can fully exert its own validity in other fields. Because the technology itself includes aspects such as philosophy and psychology, it promotes its imagination and creation similar to human beings In actual work, we can exert our own potential as much as human beings and create more value. From this it can be seen that the emergence and application of this technology not only help to promote the development of all walks of life in society, but also to a certain extent change human lifestyles.

4. THE CLASSIFICATION OF COMPUTER ARTIFICIAL INTELLIGENCE RECOGNITION TECHNOLOGY

Lifeless identification techniques include bar code identification, smart card identification and radio frequency identification. Among them, bar code identification technology includes identification of one-dimensional code and two-dimensional code, the information capacity included in the two-dimensional bar code technology is larger, the information density and error correction capability are stronger, and is mainly used for collecting and identifying important information , The current more widely used; smart card technology is based on the smart card, through the integrated circuit card storage and independent computing, and then with the computer system to effectively combine the realization of the information collection, transmission and encryption work, the current the technology is mainly used in the field of physical identification, including identity and vehicle identification; radio frequency identification technology, is the use of non-contact way to automatically identify symbols, the main use of the principle of radio electromagnetic waves. Through the radio signal and the use of electromagnetic fields from the label on the data read and transmission, and then to achieve the purpose of tracking and identification, the development of this technology has gradually replaced the role of two-dimensional code.

Life recognition technologies include voice recognition, face recognition, and fingerprinting. Among them, voice recognition is a non-touch recognition technology, which can identify the user's voice features through special voice recognition technologies, including sound pitch, sound quality and audio, and so on. Through the analysis and processing of these features, operation, do not need to apply to hands and eyes and so on. The development of modern technology provides more conveniences for the improvement of voice recognition technology and also enables the voice recognition to be applied to more fields. The face recognition technology refers to the one that is identified by the facial visual feature information Technology. The use of face recognition technology can automatically track the various parts of the face features, at the same time by the exposure intensity of the image and amplification and other aspects of the regulatory role to achieve recognition of biological characteristics; fingerprinting technology, which is based on each person's fingerprint Have different characteristics, so identification of the identity of the organism can be achieved through fingerprinting of the person.

5. THE BOTTLENECKS IN THE APPLICATION OF COMPUTER ARTIFICIAL INTELLIGENCE RECOGNITION TECHNOLOGY

The purpose of speech recognition technology is to enable the computer system to understand the human language and to do it according to human language. This technology is an important technology of man-machine language interaction in current artificial intelligence and also a key issue in the field of artificial intelligence in various countries. At the same time, along with the widespread application of speech intelligent recognition technology products, it also shows more advantages, including voice-activated telephone and voice communications. The application of speech intelligent recognition technology must exclude the impact of ambient sound on it, which makes it unrealistic in some public places to obtain the expected operation through voice recognition effectively. This makes voice The application of the recognition system is limited. In order to effectively apply speech recognition technology in noisy environments, it is necessary to apply special noise-canceling microphones.

Face AI recognition technology is through the recognition and analysis of key parts of the face, by collecting people's facial expressions stored in the database, and then through the key parts of the face and expression of the comparison and analysis to identify. At present, our country has achieved a certain success in the face recognition technology, but there are still some unsolvable problems in the actual application process. Such as hairstyle, make-up and the environment and other factors may face the application of face recognition technology more difficult. Even some physiologists, through decades of hard work cannot easily break the bottleneck of face recognition technology. Humans are not entirely accurate in recognizing strange faces, especially for those who have similar appearances. Although they can be distinguished, how to identify them is hard to describe. Then the visual system for image acquisition equipment is more difficult.

Each person's fingerprints are different, which is also the main basis for fingerprinting, identification of fingerprints patterns, intersections and breakpoints to identify people's identity. Although fingerprinting has many advantages, fingerprints of people can easily stay elsewhere at the same time. By analyzing these traces of fingerprints, the corresponding operations can be performed. At the same time, the fingerprints of some people are not obvious, so there is difficulty in the process of imaging, which leads to the problem that the fingerprint cannot be identified. This is also a bottleneck that is difficult to break through in fingerprinting.

CONCLUSION

In summary, as the artificial intelligence of computer technology itself has a greater advantage, therefore, people began to rely more and more on this technology, and computer-aided artificial intelligence technology will be widely used in the future development. However, the resulting artificial intelligence system and the higher cognitive expert decision-making system will inevitably further affect people's future production and life.

REFERENCES

[1] Talking about the application and development of computer artificial intelligence technology [J]. Hao Ziqi. Computer Knowledge and Technology. 2017 (31)

[2] Research on Artificial Intelligence Technology Development Strategy Based on the "Internet +" Era [J] .Zhou Taichen. China Strategic Emerging Industry. 2017 (48)

[3] Application and Development of Computer Artificial Intelligence [J]. Wang Xiaoying. Electronic Technology and Software Engineering. 2017 (24)

[4] Ethical issues of artificial intelligence technology and its countermeasures [J]. Zhang YN. Journal of Jilin Radio and Television University. 2016 (11)

[5] Application of Artificial Intelligence in Intelligent Buildings [J]. Wang Tonglei. Electronic Technology and Software Engineering. 2017 (03)

.