The Application of Big Data Technology in Computer Artificial Intelligence Technology

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Abstract. Compared with the traditional artificial intelligence design, the artificial intelligence automation design of big data has obvious economic applicability. In recent years, with the continuous development of the field of artificial intelligence design in China, artificial intelligence design has been effectively innovated and promoted, and big data technology, as the representative of which, also plays an obvious role. By expatiating the design, manufacturing and construction concepts of artificial intelligence in the new era, this paper analyzes the principle of big data technology and its deep integration with artificial intelligence.

Keywords: Artificial Intelligence, Big Data Technology, Innovation to Promote

1. Introduction
The principle of big data technology in mechanical process is complex, and the application of big data technology is one of the important foundations for the modernization of artificial intelligence. The performance goals of big data technologies are higher data rates, lower latency, energy savings, system expansion, and cost reduction. Artificial intelligence machinery itself in the overall operation is more reliable and stable, and in the industrial environment has also been used more. However, the artificial intelligence machinery widely used in the field of machinery in China has effectively suppressed the error in the measurement of communication, and ensured the stability of the equipment through the automatic operation of the machinery. This performance has a very wide range of applications in the design of artificial intelligence [1].

2. Major contents in the era of big data
The advent of the information age and the rapid development of science and technology have brought the era of big data. The application of big data has created great convenience for human beings. Hospitals, schools, enterprises and other work units use big data technology to process information and make their daily work more efficient. At the same time, the penetration of the application of big data enables ordinary people to realize the wish of "a scholar can know the world's affairs without going out". But technology is a double-edged sword, and so is big data. While enjoying the convenience brought by big data, we also have to face the problems exposed by it. For example, the problem of computer network information security, the vulnerability of computer processing...
information, the theft and leakage of personal information, and so on. Lawbreakers may even make use of others' information for personal gain and cause heavy losses to others, which poses new challenges to the development and promotion of the information age [2,3].

3. **Security risks faced by computer network information in the era of big data**

Due to the application of computer science and technology in a wide range of fields, so in the use of problems are also a variety of reasons, such as improper operation, virus invasion, etc., as shown in Figure 1 below:

![Figure 1. The development of computer artificial intelligence referred to by big data](image)

The development of artificial intelligence means that approaches to dealing with problems must also be varied. Due to the huge market potential of the application of big data and its ability to create convenience and wealth, many criminals turn their eyes to the field of big data, attempting to make personal gains through illegal means such as stealing and selling other people's information. Therefore, we must find out the hidden dangers facing the computer network security system and do our best to ensure the security of network information [4,5].

4. **Computer network information security protection measures in the era of big data**

In the process of using big data technology to access and process information, the most important issue is the security of information, which relates to the normal operation of the network information system and the safety of the personal life and property of the information users. Big data technology has become more and more popular. It is urgent to strengthen the maintenance of network information security to promote the development of the information age and personal security.

4.1. **Improve users' attention to personal information security**

In order to effectively maintain network information security, improving people's security awareness and self-prevention awareness when using the Internet should be placed in the first place. Only when people deeply realize the harm that information leakage brings to themselves and realize the importance of network information security, will they pay attention to the protection of their own information. Specific from each user's daily point of view, to strengthen the complexity of the password or protection procedures to avoid being stolen by criminal’s password. At the same time, to engage in information security maintenance industry of professional staff, should be deeply aware of the importance of maintaining information security, also want to have a high sense of responsibility, attention to their own professional technology, timely find and deal with the threat of network security.
information security vulnerabilities, the largest extent, maintenance of network security and interests of Internet users [6-8].

4.2. Strengthen the construction of network security protection system
Network information security inspection personnel shall regularly publish data and information related to site or hidden vulnerabilities in software, and Internet users in the public information system for a more careful screening, detect and eliminate a series of "back door" on the website and software system, more scientific, reasonable and effectively protect the security of the network information. At the same time, it is also necessary to ensure the security of service websites that provide convenience for citizens, as shown in Figure 2 below:

![Figure 2. Application of computer technology in artificial intelligence](image)

Pay attention to training software developers' awareness of network security and legal awareness, so that they can understand the hidden danger and illegal nature of software "back door". Perfect the punishment system, severely punish the relevant violators, let the software developers consciously resist the "back door" system, so as to reduce the existence of network information security risks from the root.

4.3. Improve the prevention awareness of hackers
At present, the word hacker is familiar to the public, we have a certain understanding of this group of hackers. Some hackers often attack the information system of the government and enterprises and steal information, which brings great losses to the government and enterprises. We should establish a sound and efficient professional hacker prevention system to guard against hacker attacks. At the same time, there are also a part of young hackers, we should strengthen the cultivation of students' legal awareness, in the hacker learning website into the legal content of hacker intrusion, to play a role in guiding the value of young hackers. When young hackers realize that they are breaking the law, they will naturally reduce their hacking behavior to prove their ability [9].

4.4. Establish and improve the network information security protection management system
As the saying goes, nothing can be accomplished without rules. For the information security of computer network, according to the development of network technology, it is also very important to establish and improve the corresponding, advancing with The Times security protection system and management system. Only by clarifying and implementing the institutional norms can the relevant personnel have a code of conduct in their work and have rules to follow. At the same time, the progress of management can also improve their work efficiency and avoid the leakage of information and the spread of junk information caused by the lack of supervision.
5. Problems in current AI design

5.1. Imperfect material application and control mechanism
With the continuous advancement of China's new industrial situation, in recent years, China's artificial intelligence has been visible improvement and progress. For example, artificial intelligence enterprises develop relevant artificial intelligence material control systems and optimize the design of artificial intelligence materials by using concepts such as big data technology. But overall, China's artificial intelligence material control mechanism is still immature, a large extent of the big data technology system cannot be implemented, the staff did not establish a better awareness of artificial intelligence material control in the process of work, and even lack of responsibility, sloppy work and other conditions.

5.2. It is easy to break down in practical application
Since the introduction of artificial intelligence, it has been welcomed by the masses, but in the practical application is prone to various failures, such as sudden crash, collision shutdown, etc. And the relevant staff did not do a good job in the daily inspection of artificial intelligence production, once the failure is easy to have a very serious impact. In addition, the operating companies of artificial intelligence have not set up corresponding standby facilities to prevent accidental failures. External factors are rarely considered in the design and research of artificial intelligence, and the practical application effect is worrying [10].

5.3. Lack of professional AI leading enterprises
At present, most of China's AI retail enterprises have not formed a reasonable and perfect enterprise talent management system, and it is risky for people who do not have professional management skills to check and supervise the AI work. Secondly as retail companies, most of the artificial intelligence enterprise management mechanism is too rigid, do not meet the current needs of The Times, at the same time also lack a certain binding and reward system, it is for the development of professional management talents a larger limit, go against the information feedback and optimization of artificial intelligence, at the same time limit the efficiency of artificial intelligence and normal promotion.

6. Conclusion
As a very important, fast and efficient way of communication, artificial intelligence has been widely used in the current society, but it is still easy to produce a variety of security risks in artificial intelligence application. The whole artificial intelligent control mechanism of our country is still immature, to a large extent of big data technology system cannot implement, the operation of artificial intelligence agencies shall be based on the actual operation of the system, from the fundamental problems in more scientific and reasonable analysis, formulate corresponding effective regulations, to ensure the safe and stable in artificial intelligence operations; The staff should establish a better awareness of artificial intelligence material control in the process of work. Doing well in these aspects is of extremely realistic significance to promote the urbanization process in China.

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