

Computer Technology in Network Society

Zhibo Yang

No.10 Senior High School of Dalian Development Zone, Dalian 116699, China.

Abstract: With the continuous development of society, computer technology hinders all aspects of social life, and information shows an inseparable relationship. With the help of reasonable use of computer technology, the speed of information processing is significantly improved, and the transmission and identification of information are further promoted. The continuous advancement of computer technology has contributed to the rapid expansion of its influence. From the objective point of view, the computer technology in play its advantages at the same time, once the use of unscientific, will also form a certain negative impact. Therefore, it is necessary to discuss the computer technology from many angles.

Keywords: computer technology; social development influence

Introduction

Computer technology has given great intellectual support to the development of society, economy and science and technology. Especially in the Internet era, computer technology in a more diverse form to penetrate into the changes in all walks of life, for social development to build a powerful power. From the objective point of view, while computer technology has its outstanding advantages, its negative influence is also very prominent. Therefore, we should face up to the effect of computer technology on social development, and face up to the negative deficiency while making clear its positive role, and eliminate it more pertinently, so as to fundamentally promote the stable development of computer.

1. The understanding of computer technology

Computer technology has many definitions at present, which can be briefly summarized as the science and technology of computer equipment. Computer technology covers a wide range of content, including computer hardware, computer software and technical applications. Computer technology involves a wide range of comprehensive characteristics. The combination of computer technology and discipline has formed a new comprehensive technical product, which greatly enhances the application function and value of computer technology, and vigorously promotes the development of computing technology^[1].

2. Computer network technology application principles

In the process of applying computer network technology to various fields, we should always abide by the corresponding application principles. Specifically, the application principles of this technology mainly

include the normative principle and the simplicity principle.

2.1 Normative principles

In the application of computer network technology, the most basic application principle is the normative principle. If good standardization can be achieved in the application process of this technology, the development speed of computer network technology can be greatly further improved, and its application scope can be effectively broadened ^[1]. From a certain point of view, for computer network technology, the practice of normative principles is its rationalization and scientific development of the important basis and necessary premise.

2.2 The principle of simplicity

The simple application principle of computer network technology means that the application cost and actual utility should be fully and reasonably considered in the process of technology application. From a certain point of view, the selection of computer applications should not only ensure that they have good quality, but also have the ability to effectively obtain and efficiently use network resources. In addition, in the daily maintenance and fault repair of computers, it is necessary to ensure that computer equipment has strong simplicity to ensure that it can fully meet the actual needs of users ^[2].

3. Computer network technology analysis

3.1 Computer network firewall technology

Firewall technology is also for the prevention and management of data stream in the modern computer network security and development and design of one of the most important technology application, and can also automatically update, timely monitoring and influence of computer network data stream used by security and data security of user data, make sure you are able to complete real-time accurate records of all users on the network information all actions and behaviors. Reasonable and efficient use of firewall technology, and strictly and effectively review each client request and login system users, to ensure the accuracy and reliability of login users. The user must be able to accurately enter consistent, safe and reliable account name and password for network login system, so that the system user can fully access the computer network through safe operation within the defined network login user authority, and realize network security management. The new technology also can effectively solve the current domestic network and information technology in the management and application related to the network security of many technical defects, improve the overall reliability of computer network and communication environment, for a variety of network virus can all social computer network system for current and future devastating threat, thus undermining the threat of malicious network virus is very large, Therefore, the use of malicious antivirus network virus is also the modern whole computer network system security protection technology system is crucial and important two important links, should always pay attention to and take the initiative to effectively and timely guard against these network computer viruses. As far as possible, regular and legal versions of antivirus network and update software should be installed on all home network computer operating system devices, and the computer should be kept in real time to monitor the virus process and update antivirus software in a timely manner. In addition, it is also necessary to use some new scientific,

advanced, effective, safe and practical network virus prevention technology methods to help build a better antivirus network firewall and antivirus security model.

3.2 Computer network data encryption technology

Compared with computer network firewall technology, computer network data encryption technology is more flexible and practical. Computer network data encryption technology is mainly used in dynamic information protection system. Attacks on dynamic data can be divided into active attacks and passive attacks. From a certain point of view, although the active attack cannot be overcome, it can be effectively detected. However, from a certain point of view, passive attacks, while not effectively detected, can be avoided. All of this can be done as long as the data is encrypted. Data encryption in computer network technology can be divided into two categories: symmetric encryption and asymmetric encryption. Start with the first computer network encryption technique, symmetric encryption. It is a general technology based on computer network password. The encryption password is the same as the decryption password. Knowing that one party can easily instruct the other, this method of encryption can also simplify the encryption process. If the private key is not made public during the exchange phase, confidentiality and message integrity can be guaranteed. The second is asymmetric encryption technology. In the asymmetric encryption system of computer network encryption technology, the key is actually split into a pair. Either computer network key can open files in an unclassified manner and be disclosed to others, while the other is stored as a private key. Asymmetric network encryption can make the two ends of the network communicate securely without exchanging network keys in advance, and is widely used for information exchange [3].

3.3 User authentication technology

Computer technology can authenticate users, which can be understood through the following two aspects. First, user authentication technology is a widely used peripheral management technology, which can authenticate users through login password and improve the security of system operation. , in turn, when applied, need to order the information from the user first, the input to the content of the information system, but due to a larger workload, in order to improve the efficiency of information statistics, need the intelligent technology in the database application, the system can automatically collect user information, security system can improve the efficiency of user authentication management, improve the system running stability. In addition, when checking the user information, the system can be set to combine the user information with the password to further improve the operation security of the system. Second, because the network environment has a certain impact on the operation of user authentication technology, hackers can destroy the authentication system into the database, in order to improve the security of information database, it is necessary to apply intelligent monitoring technology, to achieve the effect of knowing the operation of the authentication system at any time.

4. Application analysis of computer technology in network society

4.1 Send a message

This is not only an era of rapid development of science and technology, but also in the formation of a

large amount of information today, but also to bring a lot of convenience to life. To meet people's needs and further improve the convenience, using computer network technology to achieve information transmission can further improve the security. This defines the importance of computer network technology to electronic information engineering. At this stage, computer network technology and electronic information engineering are progressing continuously, which can effectively promote the development of science and technology. Under the convenient conditions of electronic information engineering, people's life becomes more convenient, so that people's life has become an indispensable content^[4].

4.2 Information security issues

In the present stage of social development, the use of computer network can be seen everywhere, but there are still many problems in the electronic information engineering. The main issue is security. The emergence of security problems will endanger the healthy development of all areas of society. The causes of security problems are relatively diverse. Relevant personnel should actively investigate the cause of the problem, put forward reasonable solutions according to the actual situation, and minimize the adverse impact of the problem. In addition to the power line insecurity and network system vulnerabilities, there is a non-negligible insecurity factor - hacking attacks.

Conclusion

To sum up, at present, more and more contemporary technologies are flooding into view. Computer network technology is regarded as a typical technology, which plays a strong role in promoting the development and progress of society. It brings about changes in human development that no other technology can replace. In the future development, in order to make the computer network technology shine in more fields, better meet the needs of people's production and life, we must always follow the application principles of computer network technology, increase the promotion efforts.

References

- [1] Bargen. On the role and Effect of Virtual Network Technology in Computer Network security [J]. Technology Wind, 2022(000-018).
- [2] Li D. Application of computer network technology in electronic information Engineering [J]. Science & Technology Innovation and Application, 2022, 12(7):3.
- [3] Zhu XK. Application analysis of artificial intelligence in computer network technology [J]. China Science and Technology Review, 2022, 38(1):43-45.
- [4] Li L. Application and Development of Computer Network Technology [J]. Computer Application Digest, 2022(038-012).