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Application and Safety Management of Computer Electronic Information Engineering Technology

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Abstract

With the continuous development of science and technology, electronic engineering technology pays more and more attention to the application of computers in this field, and the application of electronic information engineering technology is also increasing. However, it also makes him more and more risky, and the information may be stolen and changed randomly. Especially since the 21st century, the development of information technology has been quite rapid. Among all kinds of science and technology, computer and electronic engineering technology also occupies a more important position, which has brought about earth-shaking changes in people's life and work style and promoted social development to a certain extent. Under this background, there are inevitably hidden dangers in information security, which also hinders the progress of science and technology and the development of society to some extent. Based on this situation, we must strengthen our electronic information engineering prevention technology to ensure everyone's privacy. This paper first introduces the application of electronic information engineering technology, and then discusses its security risks and related measures to realize the security management of electronic information engineering technology.

Keywords

Computer, Electronic information engineering technology, Safety management, App, Application

1. Introduction

With the advent of the Internet era, computer electronic information engineering technology has been fully developed and applied, which has had a positive impact on various fields in China. As a technology for processing and controlling electronic information, electronic information engineering technology is mainly characterized by collecting and processing information. There are many hidden dangers in the process of information collection and processing. It is necessary to improve the risks brought by electronic information engineering technology, minimize the impact on customers, and promote the

times to adapt to this technology and keep pace with the times. Using computer technology to collect and process information is one of the prerequisites of electronic engineering. This technology has been widely used in all walks of life, such as network and some electronic equipment. In the process of use, we should pay attention to information leakage and protect information security, otherwise the consequences will be unimaginable.

2. Application of Electronic Information Engineering Technology

Due to the influence of The Times and the development of Internet technology, electronic information engineering technology has been widely used. At present, most electronic equipment adopts electronic information engineering technology. All kinds of manufacturing equipment, communication equipment, monitoring equipment and mechatronics automation equipment in production and life are inseparable from electronic information engineering. With the development of electronic information engineering technology, people's way of life has undergone great changes. The development of computer electronic information engineering technology will make the social development more and more digital, intelligent, modern and information, which will promote the development of computer information technology to a large extent.

3. Application Advantages

The development of electronic information engineering technology has brought a lot of convenience and wealth to people's life. In the enterprise, the work efficiency is often very low due to the disordered flow of personnel. Training talents to learn the ability of electronic engineering information technology can improve the management efficiency of enterprises. Second, in recent years, with the increasing emphasis on intelligence, major companies have increased their investment in this field. The emergence of a large number of relevant talents has also promoted the rapid development of intelligence. Under the intervention of the state, a good soil was provided for his development. The standardization of laws and policies can support and promote the development and application of electronic information engineering technology, and its influence is two-way. The rapid development of the entire industry can promote the formulation of relevant legal policies, and the establishment and improvement of legal policies also play an important role in the development of the industry. Third, the greatest feature and advantage of electronic information engineering technology lies in its accuracy and efficiency. As long as the corresponding retrieval requirements are set, the required information can be obtained quickly and efficiently, which greatly solves the problems of traditional data storage difficulties, data storage errors, information record missing and so on. Finally, with the continuous development of electronic information engineering technology, in practical applications, due to the influence of various factors, there have been many undiscovered problems, which put forward new requirements for our technology. Then, in this constant production and resolution, we finally found a way to promote the sustainable

development of this technology. It has also changed with the needs of The Times, and has made great contributions to improving the level of national science and technology.

4. The Existence of Security Risks

At present, the most widely used management means in society is computer electronic information engineering technology. Its effectiveness cannot be ignored. It can not only improve management efficiency, but also save manpower and time and reduce costs. With the rapid development of social economy, the faster the speed, the more likely to cause problems. Computer electronic information engineering technology is no exception. In the process of development, it is necessary to make reasonable use of it and do a good job of safety prevention. In the information age, our information is also divided into several categories, most of which are general information, such as the name of the network and other irrelevant information. Everyone has unrestricted access to this information. Secondly, some personal information can be viewed by some authorities, such as educational information. Third, once the commercial information is disclosed, it may cause significant impact and unforeseeable loss. Finally, government information relating to the state must be kept strictly confidential. For the benefit of information, we need to pay more attention to the hidden dangers of information security.

4.1 Content Security Risks

With the rise of the Internet, there are many ways to cheat information online, take the current popular online scanning code as an example: many people will use a variety of interests, language temptations and even human sympathy to attract people to scan the QR code and profit from the information you input. Even if sometimes you click on an insecure website with no news, he will read your information from your access terminal.

4.2 Transaction SECURITY RISKS

The main concern is the data generated during the transaction. If you use someone else's network to communicate at this time, your transaction data may be intercepted during the transaction. Today, many platforms have their own designated payment channels, thus minimizing the regulation of payment venues. At present, the better methods of transaction in China are wechat and Alipay.

4.3 Platform Security Risks

Although most platforms have their own information protection mechanisms, there is no guarantee that these platforms will be able to keep our information well. As soon as there is a major problem with the platform, all users' information will be leaked. And for some unknown small software, it may itself be used to deceive user information or not protect user information, then at this time our information hidden dangers will have relatively large vulnerabilities.

4.4 Disclosure of Enterprise and Private Information

Basically, all businesses need to keep information about their employees. For these private information, in the fierce market competition, there may be malicious competition. Employees use this information to trade with hostile companies for personal gain, or some hackers use the Internet to steal it.

5. Safety Management Measures

In order to prevent information leakage, it is necessary to further study information security strategies. Especially for those loopholes that currently exist, we need to focus on prevention, then check whether there are loopholes, fill the loopholes, and check whether there are relevant loopholes through multiple tests, so as to find the right solution. The most common measures are as follows:

5.1 Firewall Technology

Firewall technology is the most widely used computer network security protection technology at present. It creates a barrier between the Internet and computer networks, preventing internal networks from being invaded by external networks. The main principle of this technique is isolation. Every network has rights. If it is an accessible network, its network and data will be allowed in, but networks that are not allowed will be blocked outside this barrier. This will go a long way toward preventing hackers from getting into your network. Generally speaking, firewall technology is simple and practical.

5.2 Virus Prevention

Most cybersecurity problems are caused by viruses, which come from a variety of sources and are the most difficult to prevent. In addition to some viruses that are already common, we need to pay more attention to protecting against new viruses. Remember when the giant panda burned incense, suddenly appeared, a large number of computers were infected. This requires us to choose the right anti-virus products, as far as possible to ensure the security of the computer. The installation of effective anti-virus software can improve the effectiveness of electronic information engineering technology and security management, and can provide a stable security application environment for enterprises at the same time, ensure the security of enterprise information, maximize the most important information and data of enterprise employees are not leaked, and avoid the disclosure of trade secrets. The second is to fundamentally prevent viruses from entering the computer, do not connect external machines to the computer at will, and do not accept data and files from unknown sources. Check regularly to ensure the internal cleanliness of the computer. Among them, the common anti-virus software 360 security, Tencent computer butler, Kingsoft poison and so on.

5.3 Data Encryption

Often, we know that information will be compromised because our data is easily available without protection, so we need to encrypt it. By reprocessing the data, only those who know the decryption method can find the corresponding data, thus reducing the problem of data leakage.

5.4 Real-name Authentication

Theft and indiscriminate use of information is illegal, so it is hidden in the shadows. As long as the real-name system is implemented, the possibility of illegal access is less. For users who do not have real name authentication, we can deny them access. If there is malicious access behavior, then we can directly give a warning through his identity information, so as to further improve the security factor of the computer network.

6. Summary

To sum up, in recent years, the development of electronic information technology engineering has received more and more attention in our country, from household products to our military science and technology, in our daily life is also becoming more and more common. It is this country that has contributed in many ways to the advancement of electronic information technology, so that we can experience the social progress brought about by science and technology. However, compared with those countries that have developed earlier, we still have a long way to go. Therefore, at present, our country needs to provide more talents, increase the efforts to promote scientific and technological development, and finally achieve all-round development.

References

Jin, L. (2020). Computer Electronic Information Engineering Technology Application and Safety Management Analysis. *Computer Products and Circulation, 2020*(03), 66.

Kang, L. M. (2019). Application and safety management of computer electronic information engineering technology. *Communication Research, 3*(31), 287.

Min, L. (2017). Application and safety management of computer electronic information engineering technology. *Electronic Technology and Software Engineering*, *2017*(06), 205.

Ming, X. (2019). Application and Safety Management of Computer Electronic Information Engineering Technology. *Information and Computer (Theoretical Edition), 2019*(16), 210-211+218.

Sun, W. J. (2020). Discussion on the application and safety management of computer electronic information engineering technology. *Computer Products and Circulation*, *2020*(08), 118.

The higher, the farther. The application and safety management of computer electronic information engineering technology. *Digital Communication World*, *2018*(01), 130.

Wu, M. H., Zhong, C., Xu, L., etc. (2017). *E-commerce security*. Chongqing University Press.

Yang, J. R. (2017). Application and safety management of computer electronic information engineering technology. *Private Science and Technology*, *2017*(05), 73.

Yu, J. X. (2020). Application and safety management of computer electronic information engineering technology. *Digital Communication World, 2020*(05), 222.

Zhao, B. H. (2018). Discussion on the application realization and safety management of computer electronic information engineering technology. *Electronic production*, *2018*(16), 49-50+35.