

Application analysis of computer network technology in electronic information engineering

Hongjia Li

Minzu University of China

994224200@qq.com

Keywords: Computer network technology; Electronic information engineering; Information analysis

Abstract: With the continuous development of the society, people's living standards are improving day by day. To some extent, the application of electronic information technology is more and more widespread, and is also paid more and more attention. It helps people live better lives too. The application of computer network technology in electronic information engineering can accelerate the development of electronic engineering and promote the application of electronic engineering to human society. To a certain extent, we can analyze computer network system through electronic information service. For the use of the electronic information analysis system ensures the development and implementation of the entire electronic information engineering.

With the development of the society and the progress of science and technology, electronic information engineering has been widely used, which has affected people's life and changed the way of information acquisition, storage and management. To a certain extent, the application of electronic information engineering technology in the acquisition, storage and management of information provide a way of use. In the process of operation through the Internet, remote operation mode is mostly adopted. In this way, the development process of electronic information engineering is accelerated to a certain extent. The acquisition and management of information knowledge strengthen the processing of information to a certain extent and ensure the way of information acquisition, storage and management in people's lives. What's more, information processing is more intelligent, and it will be analyzed according to the characteristics of electronic information technology itself. This will result in a more efficient application in the analysis of the computer network system. Last but not least, in the process of analysis, it can better serve electronic information engineering, and at the same time, it can also help to put forward good ideas and clues for development.

On the other hand, electronic information engineering is an information system based on software and network technologies. At the present stage, the development of this kind of engineering is not mature, and many technical aspects still need to be improved. Therefore, we must use network technology to promote the development of the project and expand the application of network technology in the project.

1. Basic overview of electronic information engineering

1.1 Content analysis

The subject domain is based on computer network technology. It mainly covers modern electronic technology, communication technology, information acquisition and processing technology and other technologies. It is widely used in many fields such as national defense, communication and scientific research, and its effective promotion in both production and life. At the same time, wireless communication, information network and wired telephone are all important parts of this discipline. In other words, the essence of the information age is the era covered by information engineering. For example, electronic information engineering can provide convenient and effective services to the public, and such projects as mobile computers and iPads have been

cited. The information system is large and complex, and the content covers many aspects such as network technology and communication technology.

1.2. Advantages of electronic information engineering technology

1) Convenience. In the process of information processing, electronic information engineering is based on the simultaneous effect of software and hardware. By means of information batch processing technology, mass data of communication can be processed to improve response speed and processing efficiency also to prevent delaying caused by too slow processing speed. In addition, in the deepening process of electronic information technology research, software algorithm has been further optimized, and hardware equipment has been updated too, so that in the information age, the convenience advantage of electronic information engineering information processing has been fully displayed.

2) Accuracy. Precision is one of the major characteristics of electronic information engineering. Electronic information engineering mainly relies on hardware support and software design. It only needs to ensure the correctness of software design and the integrity of hardware system, and electronic information engineering can process information with high accuracy and accuracy. Compared with manual work, for the operating process is too complex and the workload is relatively large, the human error in each link is very different. Moreover, if a mistake is difficult to be detected in time, even if it can be detected in the follow-up work, it does not have much effect. The accuracy of electronic information engineering is the result of the joint action based on various sensors and computing software. The high-precision information feedback of sensors can transmit real-time information to the central computer through network signals and electrical signals, and judge the following processes through software docking. In this way, people are completely liberated from the complex process, which not only greatly improves the precision and efficiency, but also directly reduces the labor cost.

3) Ductility. The applied fields of electronic information engineering technology are relatively concentrated, however, with the rapid development of electronic information technology and computer network technology, the applied fields of electronic information engineering begins to expand, and gradually goes deep into all sectors of society. As far as the ductility of electronic information engineering technology is concerned, its role is the basis for further determination. From a technical perspective, the main function of electronic information engineering is to process network signals and electrical signals, through which control information can be sent in a timely manner. In the modern society with the rapid development of industrial informatization, all industries have achieved certain development with the extension of electronic information engineering technology.

2. Basic overview of computer network technology

Based on the technology of computer, communication and other aspects, this technology is essentially a combination of computers, that is, as a platform for resource sharing. This technology can realize real-time communication with terminal equipment by relying on optical fiber cable, which has the features of resource sharing, convenient management and rapid transmission. Computer network is very powerful in sharing software and hardware. It can integrate and process when sharing resources. Both pictures video and text transmission are accurate and safe. Its specific composition is shown in figure 1 below. The relationship between this technology and electronic information engineering is as follows. Firstly, the latter is based on network technology. Information engineering covers wired and wireless communication and other information systems. Information is provided from the perspective of public life and production. Therefore, electronic information must be based on the network. Secondly, electronic information engineering can be effectively promoted by network technology. The project has a wide range of market and USES. Therefore, if we want to promote the construction of the project, we must strengthen the research and development with the direction of computer network.

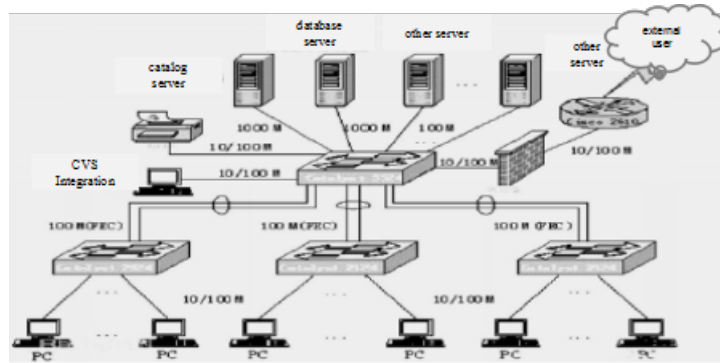


Fig 1 The concrete composition of computer network technology

3. Application of computer network technology in electronic communication engineering

3.1 Shortening the time of information acceptance and improving the quality of information

With the continuous development of science and technology, the way to obtain information is continuously convenient, and the time to obtain information is also very short. The efficiency of obtaining information can be accelerated in the process of obtaining information. These advantages are closely related to the application of electronic information engineering to the computer network system in the application process of electronic information engineering. Information can be easily obtained for communication and dissemination. To some extent, it shortens the time of information acquisition and improves the efficiency of use. It is convenient to make rapid use of information published by other users. Through the application of computer network technology, we can improve the speed of information processing, and expand the source of information also improve the efficiency of information processing.

3.2 Improving the safety of electronic communication engineering

In the process of electronic information engineering, there will be certain risks, such as easy eavesdropping or information leakage. This is the reality of our daily use of computer. It can effectively improve the use of electronic information engineering and greatly improve the security of the development of communication engineering. To a certain extent, firewall technology or anti-virus technology can be developed to ensure the security of electronic communication technology which can be improved and to achieve the overall development of electronic communication engineering.

4. The application of computer network technology in electronic information engineering

The development of electronic devices has served better to the computing networks. Moreover, computing network system technology can help the development and application of electronic information technology to a certain extent.

4.1 Information transfer

In the information age, massive amounts of information are flooding around, whether mobile phone information and push information, active or passive receiving of various information obtained through the Internet. Information transmission process is closely related to the application of electronic information engineering technology. Therefore, in electronic information engineering, rational use of computer network technology to carry out information transmission has very prominent advantages. And in the promotion of “The Times Development”, the computer network technology and the electronic information technology improve as well in order to provide perfect service for the production life.

4.2 Technical application

In electronic information engineering, rational use of computer network technology is mainly

embodied in WAN technology. In its true sense, computers distributed in various fields are connected organically in the form of information transmission, so as to realize information resource sharing and break through bad phenomenon of traditional information asymmetry. There are two main ways to transmit information over a WAN, one is wired and the other one is wireless. Between them, the way of wireless transmission mainly includes satellite means. With the continuous expansion of WAN user scale, in order to improve the speed of information transmission, optical fiber has been widely used. In addition, fiber broadband has higher speed than others, and it is capable of transmitting information over long distances quickly, as well as standing against interference signals disturbing. In the whole process, the transmission is relatively stable and has advantages.

4.3 Safety

Network security mainly focuses on the strategic deployment at the national level, and network information security is closely related to the normal and orderly operation of society. In electronic information engineering, the effective application of computer network technology is imperative. At present, in the network security, still exists system vulnerabilities, network virus, hacker attacks and other security hidden danger, and that there are serious information leakage phenomenon, some lawless elements through personal privacy information for fraud, even cause severe damage the legitimate rights and interests of personal and property security, threats. There are cybersecurity issues in both wireless and wired transmission, with some arguing that home networks are more secure. However, this is actually not the case. Whether it is wired or wireless, home network or public network, there are certain security problems. Therefore, we must pay more attention to taking effective measures for overall control and prevention.

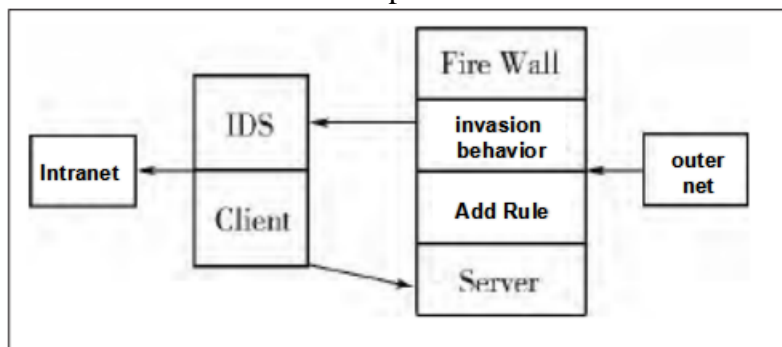


Fig 2 Safty protection between inner and outer net

4.4 Resource sharing

Good speed and ability of information processing are two of the major advantages of electronic information engineering. By highly processing information, electronic information engineering is able to process information and store massive information. The electronic information project stores the information in the server uniformly, takes the computer network technology as the carrier, in the different geographical distribution computer, can call, view and edit the information, thus truly realizes the sharing of the information resource.

4.5 Equipment development

For electronic information, it is necessary to use network technology to promote resource sharing among devices. Network technology usually has an impact on the development of electronic information towards socialization and networking. Therefore, corresponding personnel must take the corresponding knowledge of electronic information as the guidance to strengthen understanding and grasp the corresponding simulation or operation mechanism of the digital signal, so as to ensure the efficient promotion of equipment development.

4.5.1 Communication trunk.

Information engineering is usually in the wan accompanied by the trunk of communication,

among which enterprise network-oriented interfaces and access lines are also very important. The actual application must strengthen the protection work. For example, UNIX and its related systems are widely used at the level of the information engineering, but they do not have a uniform structure or protocol standard, making communication between networks extremely complex and difficult to implement. The related personnel must start from the communication trunk and rely on network technology to solve the above problems.

4.5.2 Media.

Network technology can play a large role in the mail delivery, inquiry and resource sharing. Currently, both scientific institutions and institutions of higher learning rely on communication media and other technologies to carry out scientific research and education, and its application value and popularity is also rising. Network technology has become an important representative of information highway.

4.5.3 Web browsers.

Network technology can read hypertext files on the Internet, and the process needs to pass HTTP hypertext transmission protocol. Therefore, for the internal network, users can query many information resources on the network timely and efficiently corresponding to its workstation.

5. Conclusion

With the development of electronic information system, the application of computer network technology is more and more extensive. It to some extent, ensures the development of electronic information engineering in our daily life at the same time we can often find electronic information technology projects in the process of electronic and information engineering, can guarantee the development of network technology can better service to our life at the same time, the solution to all aspects of our lives. At the same time, the advantages of electronic computer can be guaranteed, which can be developed into electronic information engineering.

References

- [1] He Decai. Research on the application of computer network technology in electronic information engineering [J]. Electronic testing, 2016,(14):94+93.
- [2] Shi Yuanyuan. Application of computer network technology in electronic information engineering [J]. Journal of huaihai institute of technology (natural science edition), 2015, 24(01):45-47.