Application and Reliability Improvement of Computer Communication and Network Remote Control Technology

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Abstract: The overall development level of Internet technology and communication technology presents an unprecedented upward trend, which makes the computer communication network and remote control technology widely used and highly recognized by all walks of life, and provides great convenience for people to carry out relevant work. This paper makes a detailed analysis on the effective application ways and specific schemes to improve the reliability of computer communication and network remote control technology, so as to lay a solid foundation for the further optimization and improvement of related technologies.

1. Introduction

Under the background of the continuous improvement of the development level of computer technology and communication technology, through the use of diversified measures, the advantages of relevant technologies are fully integrated, so as to give birth to computer communication technology. In all fields of modern society, whether it is production and management, operation and sales, or statistical analysis, it is inseparable from the high dependence on computer communication technology, which provides more possibilities for the innovation and development of all walks of life. At the same time, with the wide popularization of computer communication technology, it can bring more convenience to people's daily life. Especially under the function of network remote control technology, it can effectively solve the distance problem existing in people's traditional life, further expand people's management scope, significantly improve the convenience and effectiveness of lifestyle and work style, and provide positive help for the rapid and sustainable development of various industries.

2. Effective Application of Computer Communication and Network Remote Control Technology

2.1 Application in Real Life

The birth and wide popularization of the Internet can add more colors to people's daily life and make great changes in people's traditional communication methods. Even if they stay at home, they can also use terminal equipment to communicate with objects thousands of miles away in real time, so as to facilitate people's effective communication.

People can effectively control the target by making full use of monitoring equipment and combined with remote information technology, so as to ensure the safety of people's life and property. For example, medical treatment, health, sports, finance and education, which can be seen everywhere in people's daily life, can provide people with more efficient and convenient access through the use of computer communication network platform. In the process of daily communication and sharing, people can use WeChat, QQ and other software to ensure the high timeliness of relevant information and make the relationship between people closer. The projection equipment, air conditioner and surveillance camera used in people's daily life are realized by using remote control technology. At present, the payment function of WeChat or Alipay, which is widely

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used by many Chinese people, can't do without [1] the support of computer communication and network remote control technology.

2.2 Application in Industrial Development

Computer communication and network remote control technology have played an irreplaceable role in the process of industrial development. Especially the effective integration of computer communication technology, network technology and multimedia technology makes computer communication technology gradually develop in the direction of integration, intelligence, integration and networking. The birth and all-round development of computer communication and network remote control technology have had a great impact and breakthrough in terms of data collection and processing within the industrial system, monitoring and description, and provided positive help for the further improvement of China's industrial production level and the establishment and improvement of the management system.

Through the continuous optimization and improvement of the processing function in computer communication and network remote control technology, the specific work plans and work records can be centrally sorted out, so that the operation and management measures and comprehensive development level of industrial enterprises have high procedural characteristics, reduce the demand for labor force to the greatest extent, and further improve the labor efficiency. Therefore, in the process of development, industrial enterprises should not only correctly recognize and pay high attention to the importance of computer communication and network remote control technology, but also start from a diversified perspective to give full play to the advantages of relevant technologies and improve the intelligent level and mechanization of industrial production, provide active help for industrial enterprises to achieve sustainable development goals [2].

2.3 Application in Enterprise Development

After China officially entered the intelligent era, in the process of enterprise development, whether it is the production link, business behavior, or even management measures, it is inseparable from the strong support of computer communication and network remote control technology. If the relevant mechanical equipment fails in the actual production process and the on-site technicians can't solve it quickly and effectively, we can use Internet technology to carry out remote connection with the technical consultants of mechanical equipment manufacturers, and effectively solve the fault problems of mechanical equipment under the guidance of professionals. The technicians of enterprises and mechanical equipment manufacturers use video to carry out real-time communication. The effect is basically the same as that of the manufacturer's technical consultant for professional guidance on the site. It can not only quickly find the causes of mechanical equipment faults, but also ensure that the existing fault problems can be solved in time.

Effective information sharing within the enterprise can not only greatly save the use of human resources, material resources and financial resources, but also comprehensively improve the work efficiency. Therefore, the enterprise should strengthen the flexible application of network control technology, establish a good environment for mutual communication and interconnection among various departments within the enterprise, completely break the constraints at the time and space levels, and ensure that the subsidiaries established in different regions can establish an effective connection with the head office by using computer communication and network remote control technology, improve the timeliness of work communication and ensure that all kinds of resource information, software information and hardware information are shared. In this way, a strong LAN can be established within the enterprise, the work efficiency of cross regional operation can be further improved, and even help the enterprise to realize transnational operation. At present, a large number of enterprises have paid great attention to and actively applied computer communication and network remote control technology, which is not only a specific manifestation of modern social enterprises to highlight their own value and status, but also an effective way to improve the functions of various management measures [3].

2.4 Application in Military Development

The strength of a country's military development has played an important role in the country's social stability and development, steady economic growth and people's enjoyment of a stable and prosperous life. Therefore, whether it is to formulate national systems or the army management and training requirements for soldiers, it should be more stringent. With its powerful functions, computer communication and network remote control technology can provide diversified methods and channels in formulating military training projects and carrying out military management.

Due to the particularity of combat conditions, in the process of organizing soldiers to carry out specific training projects, the training environment will usually be set in some places with high risk. For example, in the process of training special forces, many projects need to be completed in deep mountains and forests. These deep mountains and forests not only have special geographical environment and climate characteristics, but also easily make people lose their way. Through the effective application of computer communication and network remote control technology, the specific information can be transmitted to each trainer more conveniently and quickly. These trainers only need to make use of the signal recognition equipment they carry, and can successfully complete the relevant tasks with their strong will and professionalism. Under the function of computer communication and network remote control technology, it can not only keep close contact between each trainer and the organization, but also enable the organization to monitor the personal status of each trainer in real time, which not only ensures the personal safety of trainers, but also further improves the overall effect of military training, and gradually moves towards intelligence development direction of informatization [4].

3. Effective Measures to Improve the Reliability of Computer Communication and Network Remote Control Technology

First, actively strengthen network security awareness and take diversified measures to improve the effectiveness of network security prevention and governance. On this basis, strengthen management measures, continuously optimize and improve the core technology of computer software, and improve the comprehensive quality of professional and technical talents [5].

Second, continuously strengthen a series of anti-virus technologies such as firewall, and monitor the specific state of the computer in real time. It can not only effectively prevent various risks existing in the process of network use, but also take corresponding measures to effectively solve the problems at the first time, so as to effectively remove the danger of various viruses to the computer system [6].

Third, continuously strengthen computer users' awareness of laws, regulations and moral concepts, and improve computer users' thinking of safe use. It can not only effectively solve the problem of computer virus interference, but also prevent hacker attacks to a certain extent [7].

4. Conclusion

With a good development trend, computer network has gradually become an indispensable and important development element in China's future. Computer communication and network remote control technology will inevitably become important tools in various fields of China's future society. Information communication technology will exist in all work links and systems, so that people can use highly creative ways to invest in specific work and life. Using the innovation and efficiency of information and communication technology can provide people with information knowledge and information exchange channels in the mobile environment. Therefore, we should not only strengthen the continuous optimization and improvement of relevant management systems and improve the knowledge training and practical training of professional and technical personnel, but also formulate a highly theoretical and practical training process to further improve the professional ability and comprehensive quality of staff, so as to expand the application channels and reliability of computer communication and network remote control technology, and create a beautiful living

environment for people.

References

[1] Liu Genchi. Innovative research on reliability design technology of computer communication network under the background of big data. Global Market, no.13, pp.1, 2018.

[2] Wang Yang. Analysis of the application and development of computer technology in the communications industry under the background of “Internet plus”. Electronic World, no.10, pp.2, 2020.

[3] Wang Guhao, Wang Wendong. Reliability analysis and optimization of computer communication network based on genetic algorithm. China New Communications, vol.20, no.4, pp.1, 2018.

[4] Ji Jianxin. Reliability design of MME equipment in 4G network and its application analysis in troubleshooting. Computer Products and Circulation, no.5, pp.1, 2018.

[5] X·Galois, G·Wiebert. Computer, communication unit and methods to improve data reliability in computer: CN103577760b [P]. 2017.

[6] Zhao Yuqing. Brief description of the improvement of r computer network communication reliability from the perspective of genetic algorithm. China Science and Technology Investment, vol.000, no.011, pp.328, 2018.

[7] Shang Baosheng, Zhang Zhikun, Liang Kun. On the joint application of network remote control technology and computer communication technology. Science and Informatization, no.5, pp.2, 2018.