

Research on the Development and Application of Computer Communication Technology in the New Period

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Abstract: With the development of science and technology, computer technology is becoming more and more mature, especially the development of communication technology, because the rapid development of communication technology also affects and promotes the development of computer-related industries. Nowadays, computer communication technology shows the distinct characteristics of the new era. As the representative of the new era, computer communication technology has a very important impact on the development and application of communication. This paper mainly focuses on the analysis of the development of computer communication technology, and puts forward some constructive suggestions, hoping that experts and scholars in the industry will study and discuss together.

1. Introduction

The rapid development of information technology has accelerated the integration of computer technology and communication technology. Computer communication technology has not only brought people a better and more convenient communication experience, but also successfully opened a long-distance management journey. Computer communication technology is the core of communication technology. Computer technology can only share information in a certain range earlier. But now, due to the rapid development of computer technology, computer communication technology has entered a new era. This paper analyses the application and development of computer communication technology in the new era from the development potential and direction of computer information technology in the future, and also provides reference for the colleagues who participate in the research thereafter.

2. Basic concepts and characteristics of computer communication technology

2.1 Computer Information Communication

Computer information communication technology belongs to the mode of information exchange, which is carried by information communication and communication platform. The purpose is to realize the information exchange between computer and computer, or between calculator and terminal equipment. In most cases, the computer wants to exchange data by using communication lines and sharing information between client and server. Computer communication technology has become an indispensable means of long-distance communication. With the popularity of long-distance communication, computer communication has gradually entered the next era, that is, the era of digital communication.

2.2 Characteristics of Computer Communication Technology

(1) Strong anti-interference ability

Computer communication technology has high anti-jamming ability by binary representation of data signals. It can not only speed up the operation of communication information, but also eliminate the influence of noise in the process of communication. Computer communication technology enables information to provide better and better service for people in the process of transmission, because it can ensure the smooth and reliable transmission of information.

(2) High data transmission efficiency

The transmission rate of analog information is 2400 bit/s, which can reach 180 million characters per minute, while the transmission rate of digital information is only 64 kbit/s and 480,000 characters per minute. In terms of transmission efficiency, computer communication technology is more efficient, faster and more data transmission.

(3) Short waiting time for data transmission

Telephone transmission capability is far inferior to data transmission capability in computer communication. Computer can complete 25% of data transmission in one second and 50% of data transmission in five seconds, while computer data transmission waiting time is short and transmission modes are various, which can effectively improve calculation. The efficiency of data transmission in computer communication reduces the transmission waiting time.

3. Development of Computer Communication Technology

The times are progressing, science and technology are developing, and computer communication technology is also constantly developing and optimizing. At the same time, it also promotes the development of enterprises and creates rich profits for enterprises. Computer communication technology, which combines computer network technology, has played a great role in the fields of microelectronics and optical fiber technology, and has also achieved great success. With the rapid development of computer communication technology, the development of software and programming technology of computer communication technology has become stronger. It is also a disguise that makes computer communication technology adapt to the rapid development of the times.

3.1 Microelectronics for Communication

Microelectronics technology is also a widely used technology, especially in the field of communication. Secondly, understanding in multimedia communication. Today, the development of electronic communication technology has simplified procedures and high-speed grouping equipment. Frame relay technology and asynchronous transmission mode are two modes of high-speed packet. Among them, asynchronous transmission mode is mainly used in LAN and WAN, which can provide active image, data, voice and graphics information for media. The transmission of image data is mainly provided by frame relay technology in WAN, because the high speed and low bit error rate of data optical network can reduce the processing time of nodes. Microelectronics technology has broad prospects and will be widely used in computer communication technology in the future.

3.2 Optical Fiber Technology for Communication

With the progress of the times and the continuous development of network technology, the requirement for the efficiency of data transmission is becoming higher and higher. Optical fiber communication technology can improve the efficiency of data transmission and transmission performance. Nowadays, distributed data interface is used in computer communication technology. This interface can optimize the efficiency of information transmission and greatly improve the data of traditional LAN. At the same time, this interface also has a high information processing capability for the WAN and LAN.

4. Application of Computer Communication Technology in the New Period

4.1 Application of Multimedia

The combination of computer technology and multimedia technology can achieve multimedia information acquisition, processing, analysis and storage at the same time. With the rapid development of multimedia technology and contemporary peers, network technology, video dialogue, distance education and other technologies have been realized, and communication costs have been successfully reduced. Computer communication technology has successfully achieved a

breakthrough in data transmission in space and time. Now multimedia technology has broken the traditional way of information transmission such as computer and television.

4.2 Realization of Remote Information Communication

Computer communication technology makes people's life richer and more colorful. It not only enlarges people's communication scope, but also realizes remote communication through computer link network. Because of the increasing demand of people, it also promotes the development of computer communication technology. Nowadays, there are many kinds of communication modes, which cover a wide range of contents. Only by constantly exploring and researching, and speeding up the development of computer communication technology, can we meet the growing needs of people and provide more high-quality and fast communication services for people.

4.3 Application of Wireless Computer Communication

The main function of wireless computer communication technology is to send and receive information, but wireless computer communication technology was originally only people's imagination, there is no accurate and reliable data support. But now wireless computer communication technology has been successfully realized, and has been widely used in industrial production such as network point of sale management. With the continuous development and optimization of communication technology, more and more people begin to pay attention to communication technology, and through wireless technology, people can achieve any time, anywhere, for anyone's communication management.

4.4 Application of Information Management System

With the rapid development of science and technology era, information technology and its peers, communication technology in the information management system has also been widely used. In order to improve the production efficiency of enterprises, we should make full use of computer technology in the daily management of enterprises. Because enterprise management through computer communication technology can maximize efficiency and make enterprise remote management faster. Computer communication technology can make the relationship between different departments more closely, and also make the communication between superiors and subordinates more convenient.

5. Conclusion

As a kind of cash flow technology, computer technology has a tremendous impact on all aspects of people's lives. It is not only widely used in people's lives, but also in production. The rapid development of computer communication technology also reflects the rapid development of the new era. Nowadays, the available functions include data storage, remote management, data analysis and so on. This paper studies the development and application of computer communication technology, and also provides reference for relevant researchers.

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