Analyze the Development Path of Computer Applications with the Aid of Big Data

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Abstract. With the development of economy and society, science and technology are changing with each passing day; especially the application of computer technology is the most typical and extensive. Computer technology is applied to all levels of people's production and life, which brings great convenience to people's production and life, and also promotes the improvement of social informatization. The development of computer application has become an inevitable trend of society, but there are also some problems in its development. In this paper, the current situation and problems of computer application are analyzed, and the future development trend of computer application is discussed.

Keywords: Current Situation, Future Trend, Computer Application, Big Data

1. Introduction

Computer has promoted the development and progress of human beings and is widely used in all aspects of social life. However, because the application of computer in society is affected by many factors, coupled with the imperfect social environment and the shortcomings of computer technology itself, there are many problems in the application of computer, which need us to actively explore solutions. According to the present situation of computer application, predicting the future development trend of computer application can help people grasp the development trend of computer more deeply, predict the future trend of computer application more intuitively and profoundly, and promote its wider application and promotion., which not only helps to improve the application of computers, but also has profound significance for the progress and development of society.

2. The current situation of computer application

2.1. Popularization and application in various industries

In all fields of society, computers are popular and play an important role. Computers have significant advantages in information management, information storage and information processing. They can process data in various fields quickly and optimally, and integrate all kinds of information reasonably. For example, through the use of computer programs, the government and various relevant agencies can quickly collect, manage and publish information.

2.2. The role of computer numerical calculation has been brought into full play
Through computer application technology, social enterprises can realize resource sharing and resource replacement, while social production and manufacturing enterprises can make rational use of the resources of existing products. Computer numerical calculation model is an important part of computer application system. It has strong logic ability, accurate operation, high speed and other characteristics. It can meet the needs of various emerging disciplines for the practical application of computers.

2.3. Changed the traditional mode of education
Nowadays, with the continuous development of education, computer application technology plays an increasingly important role in teaching. For example, network teaching has gained more and more support and has gradually become an important teaching mode. Network teaching can break the Convention and optimize the use of teaching resources, so it has been more and more popular. In addition, computer application technology makes people's life more and more abundant and becomes an indispensable part of people's daily life.

3. Problems in current computer application
Although China's computer application technology has achieved phased results, there are still many problems, as shown in figure 1 below.

![Figure 1. Problems in current computer application.](image)

3.1. The development of information industry is still relatively slow
Comparing with developed countries, China has not formed a relatively complete information industry system, and the application of computer technology cannot meet the development of information industry and people's demand for information products. Moreover, in some high-tech fields, China's product production also needs the technical support of other countries. China lacks investment in scientific research technology and equipment, and cannot effectively coordinate the software modules and computers of computer application technology. However, some developed countries have many computer core application technologies and sound computer application systems and computer technology research and development systems.

3.2. The relevant legal system is still imperfect
At the present stage, the information market and economic market of computer application in China are still not perfect enough, and there are means of abnormal competition, which seriously affects the application of computers. Moreover, China's policy and legal provisions on computer application are not systematic, and the policy and legal provisions are scattered. The computer standard system has not yet been established. For example, the development of electronic commerce in China is relatively rapid, but there are also special laws and regulations for network illegal and criminal acts. The illegal and disciplinary acts in the virtual world cannot be effectively investigated.
3.3. Unbalanced regional development
Because of the unbalanced development of regional economy in our country, there is also a regional unbalanced phenomenon in the application of computers. There is a great disparity in the degree of popularization and development of different regions, and the degree of popularization is also uneven. Computers are widely used and have a high level of application in economically developed areas, but in economically backward areas, they are relatively poor and have a low level of application.

3.4. The overall level of computer application is not high
The research of computer technology in China started late and the level of computer is relatively low, which seriously affects the application of computer and leads to the low level of computer application as a whole. For example, computer application technology cannot be fully and effectively used in some households and enterprises in China, and the application level needs to be improved. In addition, due to the high cost and technical requirements of computer technology, most enterprises cannot meet the requirements of technology application.

4. Development trend of computer application in the future

4.1. The intelligence degree increases
With the development of science and technology, the direction of artificial intelligence of computer technology is becoming more and more obvious, and its level of artificial intelligence is getting higher and higher. In the future, the application of computer will pursue the interaction between computer and human intelligence. The technology of artificial intelligence will be integrated into computer technology. The computer will complete the program instructions under the instructions of human beings, and the operation will be more convenient. Intelligence is the main focus of the application and development of computer technology. It is based on modern basic science. It imitates people's logical thinking and sensory behavior, and provides more intelligent services for people.

4.2. The network trend of computer application enhanced
With the rapid development of information technology and the popularization and application of computer technology, it is possible to realize the network connection between household appliances and computers in the future. With the help of convenient computer mobile terminal, household appliances can be adjusted and controlled at anytime and anywhere, and new household appliances applications can also be downloaded through the network, which realize the extension of household appliances function. At the same time, the Internet is also used to realize remote operation of electrical appliances, remote office, monitoring at any time, and life is more convenient.

4.3. Computer application will be more and more people-oriented
The purpose of computer application development is to facilitate people's production and life, so humanized attention is indispensable, and the future development of computer also reflects the trend of humanization. Strengthen humanistic care, achieve a higher degree of human-computer interaction, and promote the development of computer applications to facilitate the operation. Human-computer interaction mode is also more diversified and flexible. Humanization and intellectualization are interdependent. It can automatically select the operation process. It is simpler to use and more convenient to operate. It can meet the needs of people at different levels of ability.

5. Strategies for future computer applications
Firstly, it should speed up the research of technology, which is the most important measure to improve the level of computer application. Therefore, it should speed up the research of computer technology, constantly update computer technology, and optimize the application of computer in social life. Secondly, it is necessary to strengthen personnel training, which can provide talent guarantee for computer application and promote computer technology research and development. Therefore, it
should strengthen the training of computer professionals and bring the training of computer professionals into the school education system[5].

6. Conclusion
In summary, computers have been widely used and popularized. As science and technology are becoming more and more perfect, the sustainable development of computer has become an important issue in future science and technology. In order to develop computer technology and its application, it should actively integrate with the international standards, carry out dialogues and exchanges on computer technology with developed countries, and draw lessons from the experience of advanced countries in developing computer technology. Increase investment in computer research, strengthen research efforts, create an excellent team of computer research, and promote the development and innovation of computer application technology in China[6].

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