

## Research on the Development of Computer Science and Technology Based on the “Internet Plus”

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**Abstract:** Under the background of “Internet plus”, computer science and technology are attracting more and more attention. Therefore, this paper studies the application and development characteristics of computer science and technology under the background of “Internet plus” and focuses on its development direction, mainly including more precision, intelligence and universality, hoping to promote the application and development of computer science and technology in China through the above research.

### 1. Introduction

Under the background of “Internet plus”, computer science and technology continue to develop in the direction of precision and intelligence. With the continuous development of computer science and technology, it gradually has been applied to different fields of public life and played a positive role in promoting the development of various fields.

### 2. Application Practice of Computer Science and Technology under the Background of “Internet Plus”

The development of network technology makes computer science and technology have the characteristics of networking, promotes the development of all walks of life in society, and brings a certain degree of convenience to people’s life. Specifically:

Firstly, under the background of the Internet, computer technology has been widely used in China’s military field. With the help of computer technology, it has further improved the level of modern warfare. The addition of new electronic military equipment and network monitoring technology based on computer technology is conducive to the consolidation of China’s national defense;

Secondly, China’s industrial and commercial fields begin to use computer technology. In recent years, network sale is the best embodiment of the application of computer technology in the business field under the background of the Internet. In addition, computer science and technology are also applied to the power industry, which can provide technical support for the construction and function improvement of the power field. For example, the power station realizes automatic management with the help of this technology. At the same time, this technology is also applied to the automatic control system of power station. This technology takes the power station as the object, supervises the operation of electromagnetic in the power station, and can deal with emergencies, which improves the operation efficiency to a great extent. As for the automatic control of power grid dispatching, computer technology also plays an irreplaceable role. It can complete the automatic collection, processing and transmission of power information, so as to ensure the scientific dispatching of power. The application of computer science and technology in industrial and commercial fields has greatly facilitated the life of the public;

Finally, computer technology has been gradually introduced into the field of education. Computer technology has many advantages due to the “Internet plus” background. Therefore, while carrying out teaching activities, teachers often use computer technology to show videos or pictures

to students. This practice promotes the innovation of teaching mode and improves students' learning enthusiasm to a great extent. In addition, the traditional teaching mode makes the main source of students' education is teachers. After the introduction of computer technology into the education industry, teachers can provide students with teaching resources other than teachers. Teachers look for other teachers' explanations related to teaching materials on the network, so that students can be exposed to fresh ideas in classroom activities, which is conducive to enlightening students' thinking. To sum up, in a word, computer technology is widely applied in life and work under the background of "Internet plus", and it is widely used in life and work. It has a positive effect on the development of society and the country <sup>[1]</sup>.

### **3. Development Characteristics of Computer Science and Technology under the Background of "Internet Plus"**

#### **3.1 Faster Updates**

At present, the development of science and technology is very rapid. Based on this, computer technology has also improved the hardware level through continuous improvement. In order to ensure the running speed of hardware, relevant staff regularly innovate the hardware, which is not only an indispensable work, but also the basis of the development of computer technology. In addition, China's government departments have gradually increased financial investment in the computer field, improved the operation efficiency of computers, and built a relatively standardized Supercomputing Center <sup>[2]</sup>.

#### **3.2 More Stable Operation Function**

Generally speaking, most people prefer microprocessors in the choice of computer processors. The reason is that microprocessors are smaller and lighter, which is conducive to maintaining the stable operation of computer systems. Therefore, with the help of microprocessor, the optimization and promotion of computer technology functions can be realized.

#### **3.3 Improved Practicability**

There are many risks in the operation and production of enterprises. Therefore, enterprises must pay enough attention to the management of problems, formulate corresponding solutions, and ensure the pertinence of the formulation of solutions, so as to avoid risks to a certain extent. In addition, while introducing computer technology into the production and operation process of enterprises, it is necessary to connect computers with relevant instruments to establish and improve the enterprise risk avoidance system, so that it can not only improve the automation level of enterprises to a certain extent, but also prevent the risk problems that enterprises may encounter in the future. It can improve the economic benefits of enterprises <sup>[3]</sup>.

### **4. Development Trend of Computer Science and Technology under the Background of "Internet Plus"**

#### **4.1 More Precise**

With the development of the Internet, computer technology has developed rapidly. The development direction includes making computer technology more precise, which is mainly reflected in computer operation and precision of computer operation. The performance of computer system is optimized to improve its data processing ability <sup>[4]</sup>. At the same time, it can also help the development of optical computers. In the application process of optical computer and traditional computer, the former has more advantages. Optical computer can give better play to its own advantages and improve the processing effect. Traditional computer has some shortcomings in the above two aspects. In the process of running for a long time, the computer itself will generate heat. In this case, the operation of the traditional computer will have problems because the temperature is too high. However, the optical computer can overcome this disadvantage. Even after a long time of

operation, it can operate normally when the temperature is too high, and will not affect its own performance to complete the data processing. Similarly, optical computers can maintain the stability of their functions in a low temperature environment. Therefore, more and more countries begin to pay more attention to optical computers and increase financial investment to promote R & D. According to the current situation, the R & D advantages of developed countries are more obvious. However, China has also achieved remarkable results in the R & D of optical computers.

After a series of improvements, computer science and technology have become more precise. In this process, the emergence of optical computer has played a certain role. In addition, the important content of integrated circuit has also played a role that can't be ignored. For example, Intel's process standard for integrated circuit development is 13000 times that of the beginning, and combined with the heterogeneous collaborative operation of CPU, the integrated circuit can implement relevant tasks and reduce energy consumption to a great extent.

## **4.2 More Intelligent**

The development of artificial intelligence promotes the development of computer science and technology, which is mainly reflected in the increasingly obvious intelligent characteristics of computer technology. In recent years, people's living standards have been improved. Under this background, artificial intelligence technology began to appear and gradually became the cutting-edge technology of computer science and technology. Under the background of "Internet plus", the intelligent development of computer science and technology has a certain scale, which has brought convenience to the survival and production of the public. Taking the mobile assistant of major brands as an example, intelligence is well applied to people's life. After receiving the user's voice command, the voice assistant in the mobile phone searches the content needed by the user in the network world and provides corresponding services for the users.

The relevant contents of online banking also apply artificial intelligence technology, which improves the security of online banking transactions by means of identity authentication. For example, Mitek uses visual algorithms to classify IDs in bank transactions. Its core is optical character recognition software, which scans documents and converts data into editable format. Artificial intelligence can improve the accuracy of optical character recognition software in extracting fingerprint or signature<sup>[5]</sup>.

## **4.3 Multi-Function Integration**

The key goal of the development of computer science and technology is to meet the needs of different people. Therefore, multi-function integration is also an important development direction of computer science and technology. China's R & D in this area has made significant achievements.

In a press conference of computer science and technology, a technology company showed people a new laser computer at the press conference, which improved the functions of the traditional computer. This laser computer not only implements the computer data processing work, but also enables the computer to have diversified functions of multimedia equipment, such as TV function, and has high R & D value<sup>[6]</sup>.

## **4.4 Achieve Universality**

With the development and perfection of computer science and technology, its development space has been expanded, and its development trend is also moving towards universality. For the level of universality, relevant staff should analyze the research results and find out the scope of use of the law. For the universality of computer science and technology, it is mainly reflected in the process of technological development and innovation, and the scope of involvement and influence is gradually expanded. In the long run, the application field of computer technology is also expanded, promoting the further expansion of the scope of use<sup>[7]</sup>.

## **5. Conclusion**

To sum up, under the background of "Internet plus", computer science and technology have been

applied in many fields, such as education and industry, and the application prospect of computer science and technology is very promising. Therefore, relevant staff should take relevant measures to promote the development of computer science and technology towards precision and intelligence, so as to provide technical support for the development of important industries in China and promote the development of our society.

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