

# ANALYSIS ON THE DEVELOPMENT TRENDS OF COMPUTER SCIENCE AND TECHNOLOGY

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**Abstract:** With the continuous development of science and technology in our country today, it has promoted the continuous development of our country's economic level. However, the application of computer technology is becoming more and more extensive, and its contributions to society are also increasing. To this end, we have made a comprehensive analysis and study on the development trends of computer science and technology, and put forward some opinions on this basis, hoping to provide certain valuable reference for those working in the same industry.

**Keywords:** Computer science; Technology; Development trends; Analysis

## 1 INTRODUCTION

Computers have become an indispensable tool for people in modern life. Through the application of computers, people's life needs can be better met. It has an increasing impact on people's lives. It is also about efficiency. The direction of modernization and intelligence is constantly developing. One of the more obvious trends is the continuous penetration of networking into various fields. The intelligence of information has also been comprehensively developed and improved. With the development of computer science and technology, it has also brought about certain changes in people's lifestyles. It comprehensively improves the efficiency of people's work and study, promotes the progress of the times and the development of civilization, and drives the continuous development of our country's economic level.

## 2 ANALYSIS OF THE CURRENT SITUATION OF COMPUTER SCIENCE AND TECHNOLOGY DEVELOPMENT

At present, computer science and technology have become an indispensable part of people's lives and work, and with the continuous improvement and updating of technology, it will have a greater impact. The first is that the development of computer science and technology mainly shows the popularization characteristics of GF. Science and technology are mainly the primary productive forces. However, computer science and technology are mainly an important branch of science and technology and have become important productive forces driving social progress. However, people's understanding of computer science and technology is constantly improving, and more and more people are applying computer science and technology to solve problems in life and production. Therefore, by effectively integrating computer science and mathematics into economic, cultural and commercial activities, and gradually developing them, we can better promote the development of our country's socio-economic level. The second is that the development of computer science and technology mainly shows breakthrough developments. Since the first computer appeared in 1946, its core technology has been continuously updated and improved after many reforms and applications. Nowadays, whether it is some supercomputers, mainframe computers and portable handheld computers, Computers, etc., are all constantly being updated and improved to better adapt to the development of society and the needs of people's lives. The third is that the development of computer science and technology mainly shows a characteristic of integration. With the development of computer science and technology, it has mainly continued to penetrate into related fields of science and technology, and has become a system of relatively comprehensive science and technology, such as smart home appliances and network technology products, etc., all They are all a product of the combination of computer science and technology with other products.

## 3 MODERN APPLICATION STRATEGIES OF COMPUTER SCIENCE AND TECHNOLOGY

Computer science and technology, with its high-efficiency computing methods and convenient operating procedures, have now begun to be implemented in various industries and fields of society. For a time, the work efficiency of personnel in various positions has been greatly improved, and people's lives have changed. It becomes more convenient and faster. First of all, the advantages of computer science and technology are particularly evident in the calculation and processing of massive data, which can ensure that employees can be relieved from tedious and heavy data processing activities as soon as possible. At the same time, with data or information stored in digital form, the reading and saving process has become smoother and more convenient. Compared with traditional paper carriers, it has larger capacity, smaller volume, and easier retrieval and transmission. for the advantage of high efficiency. Secondly, computer science and technology can also serve as the basis for various applications, ensuring that many tasks in society can be coordinated and handed over with the help of auxiliary media such as computers. In other words, computer technology has been closely intertwined with modern social civilization, during which they mutually promoted and developed simultaneously.

### **3.1 Strengthen Daily Supervision and Control of the Application of this Type of Technology**

Relevant national agencies must ensure that they formulate and implement strict supervision and control policies in a timely manner to ensure that they gradually increase the supervision and management of modern applications of computer science and technology to prevent criminals from using computer technology to commit fraud or cause harm in special fields. Some kind of threat. In addition, as a national regulatory agency, it is necessary to strengthen the intensity of punishment and actively carry out psychological education for those with less serious problems to ensure that they truly realize the seriousness of their own problems and actively rectify them; as for serious situations, such as causing Those who violate the law and cause losses to people's property must be strictly punished in accordance with legal standards.

### **3.2 Create a Complete Computer Operating Application System**

The construction of a complete type of operation control system is obviously extremely critical for the coordinated development of computer science and technology. Only in this way can we ensure that this type of technology can be more ideally integrated into different industry fields. Furthermore, computer operators are required to continuously work hard for a unified goal direction. For example, in the process of designing and developing modern application programs, it is necessary to comprehensively restrain the unhealthy competitive behaviors that occur in the development of computer technology and ensure that various technical personnel can combine various user requirements in real time to carry out programs with a high degree of matching and up to quality and quantity standards. development.

## **4 ANALYSIS OF DEVELOPMENT TRENDS OF COMPUTER SCIENCE AND TECHNOLOGY**

### **4.1 Analysis of Development in Diversification**

At present, no matter whether it is large-scale or giant or micro-computers, they all have their own suitable development directions. Driven by computer science and technology, the development of computers will show a multi-polar development direction. For example, for some Large and giant computers have been widely used in astronomy, aerospace and satellite orbits. However, micro computers will become lighter and more convenient in the future development process. It is easy for people to carry. Nowadays, with the rapid development of computer science and technology, micro computers may appear in front of people in the form of watches and other accessories in the future. Not only can they be more convenient for people to carry, but also It can increase the beauty of the microcomputer. However, with the continuous development of computer science and technology, computers that operate at higher speeds will gradually be invented. Their calculation speed can reach hundreds of millions of times, and they can better make corresponding contributions to the development of mankind. .

### **4.2 Analysis of Development Trends in Intelligence**

If in a restaurant, the roles of chefs and service staff are replaced by robots, and the corresponding codes are simply set through computers, then the intelligent robots will be able to execute relevant programs and better serve people in the restaurant. The catering industry has made corresponding contributions. People will experience work fatigue during work. Therefore, some of the more common phenomena in current restaurants are queuing for meals and longer waiting times for meals. However, through intelligent Robots can better improve this problem. However, the intelligence of the development of computer science and technology is not only directly reflected in the catering industry. At the same time, the intelligence of computers can also be directly reflected in robot teachers, which eliminate the need for students to go to school to learn and teach through computer videos. The method will gradually become outdated. However, with the rapid development of computer science and technology, every student can have a computer teacher who meets his or her own personality characteristics. However, computer teachers can use the computer's relatively large database to teach students anytime and anywhere. We can solve students' problems in the learning process and supervise students' learning 24 hours a day.

### **4.3 Analysis of the Disadvantages Brought about by the Development of Computer Science and Technology**

Nowadays, with the continuous development of computer science and technology, there are also many criminals and hackers on the Internet who use this technology to commit crimes. Many criminals mainly use the technology developed by computer technology. Make full use of it and commit criminal acts by taking advantage of some loopholes in the product itself. For example, hackers and other criminals can write corresponding codes based on the situation where paper is usually placed in the printer slot. Use the network to cause the printer to self-combust and then explode, resulting in a direct impact on public property and personal safety. Even some hackers and other criminals can use the convenience brought by the computer to attack the printer manufacturer. Carrying out corresponding blackmail behavior will directly affect the stability of society.

### **4.4 Develop Towards a higher Direction**

To put it simply, the performance of computers is getting higher and higher, and their running speeds are also getting higher and higher. As computers continue to develop in the future, computers will no longer be limited to one computer and just use one processor. On the computer, it will become a computer using multiple processors, mainly based on principles introduced and continuously implemented by experts in computer science and technology research. Nowadays, the most advanced computers in the world already use nearly ten thousand computers to run in parallel to perform work, constantly improving the performance and running speed of electronic computers, but they have not been fully popularized. Therefore, in the future development process, we must pay great attention to this point, so that computer science and technology can better provide services to people.

#### **4.5 Electronic Computer Science and Technology will Develop in a Deeper Direction**

At present, with the rapid development of science and technology, the level of computer science and technology is also constantly improving. Computer systems will also become more flexible, and functional design will be more humane and rational. At the same time, computers will continue to develop in the future. In the process of development, parallel processing technology will also be adopted, which has become an important part of the development of computer intelligence. The intelligence and popularization of computers can better provide us with corresponding services, because the intelligence of a computer can have more functional components. For example, people now usually like to watch cartoons and special effects in movies. It can be done through intelligent computers, which can give us a more powerful visual enjoyment.

### **5 CONCLUSION**

After analyzing and studying the above content, it can be concluded that computers have become an indispensable tool for people in modern life. Through the application of computers, people's life needs can be better met. For people The impact on people's lives is also increasing, and they are constantly developing in the direction of efficiency and intelligence. One of the more obvious trends is the continuous penetration of networking into various fields. The intelligence of information has also been comprehensively developed and improved. With the development of computer science and technology, it has also brought about certain changes in people's lifestyles. It comprehensively improves the efficiency of people's work and study, promotes the progress of the times and the development of civilization, and drives the continuous development of our country's economic level.

### **COMPETING INTERESTS**

The authors have no relevant financial or non-financial interests to disclose.

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