

# Exploration on the Modern Application of Computer Science and Technology

Kejia Liu

British Columbia University of British Columbia, Vancouver V6T 1Z4, Canada.

---

**Abstract:** Computer science and technology are the inevitable result of development and progress in the new era, an important symbol of the development of human society, and it has played a positive role in promoting the development of human society. Today, many aspects, such as public work and life, are closely related to the modern use of computer technology. To this end, relevant departments should strengthen the modernization of computer science and technology, and effectively expand the application fields of computer science and technology, so as to improve the quality of life and happiness of the people.

**Keywords:** Computer; Science and technology; Modernization; Application Exploration

---

## Introduction

Computer science and technology is an advanced, pioneering approach to technology. Computer science and technology can effectively and easily process data for the public. It has been widely used in all walks of life. Computer science and technology is the basic operating technology of many software tools, and it plays an important role in promoting the coordination, arrangement and communication of various activities in social life. Its modern application facilitates people's daily work, and also has powerful computing and analysis capabilities, and also ensures the accuracy and convenience of calculations. In addition, computer science and technology play a pivotal role in data storage that no other technology can match.

## 1. The necessity of modern application of computer science and technology

### 1.1 Promote the upgrading and development of relevant software and hardware systems and technologies

In today's world, it has been widely used in complex computer systems due to its rich functions, large storage space, fast computing speed and fast computing speed, and has achieved good application results. Supercomputer rules are a comprehensive subject covering the fields of computer science and technology, which will greatly promote the development and application of computer science and technology, as well as optimize software and technology updates. In recent years, with the continuous development and application of silicon chip technology, the development of high-performance computers has received more and more attention. The staff of the China Computer Technology Research Institute should be committed to breaking through the current technical bottleneck of computer science and technology. For example, in the field of ultra-micro technology, biocomputers can not only transmit information with high precision and high efficiency in the form of waveforms, but also store massive amounts of data, and use biochips to greatly speed up computing. However, in the case of using biochemical products, it is difficult to achieve the purpose of energy saving and environmental protection. Therefore, in the process of using computer technology to modernize, we must promote the update and development of technology, so as to make the application of computer science and technology in modern society more effective.

### 1.2 Drive the intelligent process

With the rapid development of China's economy, people's quality of life has been greatly improved, and the dissemination of news and information has also been greatly improved. With the rapid development of computer technology, all kinds of computers play an increasingly prominent role in people's work and life. With the continuous development of computer technology in our country, its application scope and scale are constantly expanding. Flexible use of modern computer technology can not only build a complete computer platform, but also greatly improve the overall work efficiency and enhance the sense of social responsibility.

## **2. Modern application of computer science and technology**

### **2.1 The comprehensive quality of relevant personnel is not high**

Under the background of informatization, our country pays more and more attention to the development of computer technology, and gives economic support to a certain extent. In this context, more and more people begin to learn computer science and technology, which raises the demand for people's knowledge and ability to use computer science and technology. However, in computer-related industries, the quality of work needs to be further improved. Therefore, computer science and technology workers should continuously improve their overall quality and literacy, and constantly lay a solid foundation for their professionalism to meet the needs of future computer science and technology development.

### **2.2 The existence of security issues**

With the continuous development of computer science and technology, it is necessary to rely on the Internet and application systems to achieve, and the massive information contained in the network has brought great convenience to people. However, with the use of the information content of the Internet, its security problem has become increasingly prominent. Our country's relevant laws, regulations and management systems are not perfect, so it is difficult to effectively control the behavior of the public, resulting in illegal intrusions such as Trojan horses and hackers, and it is also difficult to ensure the security of public information. With the increasing number of people on the Internet fraud, how to effectively solve the security problems of computer technology in modern applications has become a top priority.

### **2.3 Occurrence of illegal and illegal operations**

The development of computer science and technology in the new era provides convenience for people's daily life, but it also brings many problems such as information security. Due to information security issues, it is difficult to effectively protect the personal privacy of computer users. Some criminals steal other people's information through illegal means, and conduct extortion, online fraud, theft and other illegal acts. Such infringement will have negative experiences and emotions for users, which will adversely affect the development of computer science and technology. In China, the regulatory measures taken to address these issues have not been fully implemented, and it is difficult to effectively address these issues with network technology alone. In addition, although China has increased its investment in computer science and technology, there are still problems of over-reliance on nuclear technology, as well as supporting systems related to computer science and technology and modern application systems, which limit the development and progress of computer technology.

## **4. Modern application strategies of computer science and technology**

### **4.1 Guarantee information security**

The development of computer science and technology presents a dual nature, people's living standards have improved significantly, and people's property safety is facing challenges in all aspects. Therefore, the rapid development of computer science and technology has paid more attention to information security issues. For example, computer science and technology have been widely used in the operation and management of enterprises, which has brought great convenience to production activities such as production, financial management, and sales of enterprises, and also brought great convenience

to the production and sales of enterprises. Therefore, relevant departments should take corresponding countermeasures to fundamentally solve the problem of computer information security and standardize its operating procedures.

## **4.2 Improve supervision measures and effectively increase network**

### **supervision**

Computer science and technology is a double-edged sword, which not only brings great convenience to people's work and life, but also causes certain damage to public interests. Government agencies and relevant units should improve relevant laws and regulations, strengthen supervision, and control the improper use of computer science and technology from the source. While governments and businesses at all levels regulate computer technology, they are also monitoring many illegal activities, including the use of computer science and technology for online fraud, resale of personal data, and computer system security breaches. When formulating laws and regulations, relevant departments fully recognize the important role of computer technology in modern society. If computer science and technology are used in illegal activities, the consequences will be extremely serious. Effective measures should be taken to prevent the leakage of personal or corporate information, and severe penalties should be imposed on those who use computer science and technology to conduct illegal activities to crack down on illegal and criminal activities on the Internet, thereby effectively strengthening network supervision.

## **4.3 Establish a complete modern computer science and technology**

### **application operating system**

In order to greatly improve the efficiency, security and stability of modern computer science and technology applications, modern applications need to be supported by application systems of modern computer science and technology. In addition, the use of advanced and modern computer science application systems can make computer science more deeply integrated with other industries, so that the application fields of computer science and technology can be developed more widely. Therefore, in the application of modern computer technology, it is necessary to combine the development needs of modern computer science and technology, deeply analyze the actual needs of its application market, carry out computer research and development, and develop computer science and technology software and systems, in order to ensure the correct direction of computer development, thereby promoting the further development of computer science and technology and the improvement of application effects.

## **4.4 Enhance the practicality of the technology to fully meet the needs of**

### **different audiences**

Although computer science and technology have brought great convenience to people's daily life and work, different users have different functional requirements. To effectively improve the practicability of this technology, it is necessary to combine the different needs of users at all levels to provide them with targeted computer configurations. For example, in the field of computer science and technology, general office workers use office software such as Excel and Word to create tables and store data. In addition, entertainment facilities in Internet cafes and other online gambling establishments must be equipped with high-performance computer equipment and technical support in order to operate smoothly. Therefore, the application of modern computer science and technology should be based on reality and have a strong practicality to better meet the needs of various target groups.

## **5. Conclusion**

To sum up, computer technology has penetrated into all aspects of society with its fast and convenient operation. The development of modern data technology has created conditions for the transmission and storage of data, and due to the

rapid development of data technology, the work efficiency and quality of data have been greatly improved. However, the application of computer science and technology in our country is not yet comprehensive, and it is still in its infancy. In order to effectively promote the development of human society, it is of great practical significance to conduct in-depth research on the application of computer science and technology in contemporary times, and to explore modern applied computer science and technology.

## References

- [1] Yin K. Analysis of Modern Application of Computer Science and Technology [J]. Information Recording Materials, 2020, 21(06): 65-66.
- [2] Xiong J. Research on the Modern Application of Computer Science and Technology [J]. Information and Communication, 2020, (05): 282-283.
- [3] Wang HF, Cui P, Jiang R, Mao J. Modernization Application Measures and Innovation of Computer Science and Technology [J]. Modern Information Technology, 2019, 3(24): 133-135.