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Development and Application of Computer Technology in the Era of Digital and Information Technology

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Abstract: In today's world, science and technology have penetrated into every field of people's daily life, and become the most active factor of productivity. Similarly, China's development is inseparable from the progress of science and technology which has been playing an indispensable role. In terms of computer technology, under the background of digital and information era, computer technology has made great progress, but also faces great challenges. How to promote the long-term development of computer technology in the era of digital and information technology and how to strengthen the application of computer technology are worthy of continuous thinking. Therefore, the author expounds the relevant concepts and characteristics of the digital and information era, analyzes the development of computer technology, and puts forward the problems existing in the development and application, so as to better provide valuable countermeasures and suggestions for the development and application of computer technology.

Keywords: The digital era; The information era; Computer technology; Development and application

1. Introduction

At present, human beings have entered the era of digital and information technology. To a certain extent, it can be said that digital and information civilization is the main form of modern social civilization, as well as the key to the progress of human civilization. As far as computer technology is concerned, it is the general term of computer production, computer application and computer development, which has a significant impact in various fields and plays a very good auxiliary role in mass production, life and other aspects. With the rapid development of computer technology, more attention is paid to the development and practical application of computer technology. Therefore, it is necessary for relevant researchers to strengthen the application and analysis of computer technology, so as to better put forward relevant countermeasures and suggestions, thus making computer technology obtain considerable development. In view of this, the research direction of this paper has certain theoretical value and practical significance.

2. The Concept and Characteristics of the Era of Digital and Information

In the background of digital and information era, computer technology, internet technology, big data and other words quietly enter people's vision and produce a subversive impact. While bringing great convenience to people, they also continue to promote the improvement of people's living standards and quality, penetrate into

people's daily work, life, learning in various fields, and change people's working methods and values. Under the background of digital and information era, various derived databases and communication management application platforms promote resource exchange and sharing, which not only makes people more closely connected, but also make "global village" become no longer an unreachable dream, effectively promoting the strong development of economic society.

Under the background of the digital and information era, the rapid development of computer technology has greatly improved people's work efficiency. At the same time of application and promotion of computer technology, it also continuously promotes the depth of the digital and information era [1]. At the same time, computer technology has the characteristics of high efficiency, convenience, diversity and comprehensiveness, which not only facilitates people's production and life, but also promotes the transformation and renewal of people's values, so that various elements blend with each other, and people also get a lot of benefits from it, affecting human life, work and production mode imperceptibly. In a word, the development and application of computer technology play an important role in the development of the whole economy and society, and promote the development and progress of human society.

3. The Development Status of Computer Technology in the Era of Digital and Information Technology

With the advent of digital and information era, computer technology has been paid more and more attention. The development of computer technology is also inseparable from the promotion of technological innovation. At present, computer technology has also made rapid progress. It is shown in the following aspects:

Firstly, technology has been updated day by day and great breakthroughs have been made. With the development of the times, under the premise of more and more diversified and comprehensive requirements of the society, the standards and requirements of computer technology have also been raised accordingly. Therefore, in order to make the computer meet the needs of the current rapid economic and social development, innovation and optimization of computer technology has become the meaning of the topic. Under the background of digital and information age, computer technology has also made great breakthroughs. It transforms from the well-known internet and local area network to the advanced ATM, wireless network or sensor network. These new words not only represent the progress of computer technology, but also are deeply branded with the mark of the times, becoming the synonym of more perfect functions, more smooth network and more normalized use of computer, which also makes the development of computer technology more effectively guaranteed [2]. At the same time, computer technology also provides people with more convenient services and plays a good auxiliary role.

Secondly, technology types tend to be rich and adaptable. With the development of the times, it is destined to eliminate the inappropriate traditional technology, followed by more adaptive and diversified technology types. Therefore, in the background of digital and information age, computer technology also meets the needs of diversified development trend. While the types of new technology are enriched, the adaptability of computer technology has been constantly improved, which lays a good foundation for the basic development and improvement of computer. It is precisely because computer technology can keep pace with the times that people's production and life can be effectively guaranteed, which can provide continuous guarantee and strong support for the long-term economic and social development.

Thirdly, the field of technology application has been gradually expanded, covering a wide range. The development of the digital and information age also puts forward higher requirements for computer technology, which requires it can penetrate into various fields and covers a wide range of fields, from the former inclined to industrial production field, to the now gradually developed to cover many fields involved by people, such as production, life, learning, work, medical treatment, communication, etc. And it plays an irreplaceable important role in finance, international trade, taxation, etc Business, economy, accounting, business and other fields.

With the deepening of the digital and information age, it is believed that the application of computer technology will be more specific and detailed, which can bring great convenience to people and subversively change the economic and social development. There is no doubt that, with the development of the times, the application of computer technology will continue to expand, especially the multimedia technology, digital processing technology and semiconductor technology derived from computer technology, which will bring precision services in the analysis, processing, statistics, calculation and other aspects and make tremendous changes in economic and social aspects [3].

4. Problems in the Development and Application of Computer Technology in the Era of Digital and Information Technology

In the era of digital and information technology, a series of subversive changes brought about by the development of computer technology are worthy of affirmation, but when we see our country's achievements in the field of computer technology, we should be aware of the gap between our country and developed countries. Therefore, we need to think deeply about the problems existing in the development and application of computer technology, especially in the background of digital and information age, which is also a very important opportunity period for the development and application of computer technology. While affirming the development, we also face many problems, which hinder the development and application of computer technology.

First of all, in terms of technology, there are institutional obstacles. For the development and application of computer, technology is one of the most critical and important factors affecting its development. Because of the late start and weak foundation of computer technology in our country, the situation of "congenital deficiency and acquired deformity" appears in the process of development. And the relevant system and mechanism are not perfect, lack of relevant supporting systems to adapt to, and cannot touch the substantive issues, resulting in the computer technology stay at a shallow level, which will largely cause the rigidity of the computer technology model. Sometimes, it only focuses on the development of the form, which is difficult to establish a long-term and mechanism guarantee mechanism for sustainable development, limiting the development and application prospects of computer technology [4].

Secondly, in terms of security measures, it is deeply troubled by loopholes. The content of computer technology is different in different times. Under the background of digital and information age, as the development and application of computer technology are still in the rising period, there are some inevitable problems in both development and innovation. Especially in the semiconductor

technology, it is difficult to make breakthrough. Some computers are deeply attacked by hackers, and their resistance to foreign viruses is weak. Physical factors may also affect the computer technology. Therefore, once the virus invades the computer, it will cause immeasurable huge losses.

Moreover, there is a lack of relevant professionals to match it. The rejuvenation of computer technology cannot be separated from the rejuvenation of talents. Only by better training a group of computer talents, can we better adapt to the dynamic development of the world. At present, in China's computer technology, there is a clear lack of professional computer talents, and some computer practitioners also lack the relevant professional skills. Their knowledge of computer security is not deep enough. They not only lack of theoretical basis, but also make many mistakes in the process of practice. Scientific research talents are in short supply, so it is difficult to make breakthroughs in key areas, which seriously affects the innovation, development and application of computer technology.

Finally, without relevant financial support, it is difficult to support the research of advanced technology. As a cutting-edge technology, computer technology needs a lot of funds to support. Compared with other developed countries, there is a certain gap in capital investment in China. With the development and application of computer technology, some new products have been produced. However, due to the lack of financial support, it may be strangled in the cradle during its embryonic period, making it difficult for new products to form scale effect. In addition, there are some shortcomings in the aspect of encouraging talents by capitals. The lack of capital encouragements leads to the lack of motivation of computer technology related personnel which makes it difficult to carry out some major projects. Thus it will lead to no significant breakthroughs in major technology research [5].

5. Suggestions on Deepening the Development and Application of Computer Technology

Firstly, improve the system and mechanism of computer technology development. As a cutting-edge technology, computer technology needs to form a series of system and mechanism for its standardized development and application at the source, so as to guarantee the development and application of computer technology and provide system and mechanism advantages for its breakthrough. In this way, we will not only focus on the development of form, but also pay more attention to building a long-term mechanism for the long-term development of computer technology. We should also think deeply about the establishment of the supporting mechanism suiting for the development and application of computer tech-

nology, so that it can meet the development of the times and cope with various uncertainties.

Secondly, strengthen the security means of computer technology. In the new situation, higher requirements are put forward to the security of computer technology. At the same time, the security means of computer technology is also a key in the development and application of computer technology. Therefore, in order to continuously strengthen the security means of computer technology, it is necessary to build a professional network security research and development organization to optimize and update the computer software used in different fields, so as to make the computer technology tend to be stable, promote the development of innovation, research and development, optimization, and better enhance the security of computer technology.

Thirdly, strengthen the construction of computer technology talents. Only by Letting the professional people do the professional work, and truly achieving "the best use of things, the best use of people" can it better adapt to the development of computer technology. On the one hand, in the aspects of the development and application of computer technology, we should strengthen the training of relevant personnel to improve their adaptability and professionalism. On the other hand, we need to change the existing management mode, change the concept of traditional computer technology thinking mode, seek truth from facts, break the old concept, be brave in innovation and keep pace with the times. Train a group of high-quality professionals with excellent quality and ability.

Fourthly, increase the investment of funds to form a good incentive atmosphere. Using funds to optimize the existing information structure system to ensure the efficient operation of computer technology and provide strong financial support for the better development and application of computer technology. On the one hand, the government needs to pay attention to the development of computer technology and increase investment. On the other hand, it is necessary to form research and development institutions with enterprises, universities, scientific research institutions and local governments as the core to constantly promote the breakthrough and innovation of computer technology development and application, create a good incentive atmosphere, and lay a good material foundation for better development and application of computer technology.

6. Conclusion

With the deepening and development of digital and information age, computer technology has also made great progress. The reality of the existence of both opportunities and challenges also puts forward higher requirements for the development and application of computer technology. This paper analyzes the current situation and

existing problems of computer technology under the background of digital and information age, and further puts forward relevant countermeasures and suggestions, expecting to bring inspiration to personnel in related fields. While seeing that there are some restrictive factors in the development and application of computer technology in China, we also need to take some positive measures to deal with the shackles in the development process, so as to win a broader space for the development of computer technology and make it better adapt to the development of the times.

References

- [1] Zhou Xianzhi. Discussion on computer technology in digital and information age. *Electronic Technology & Software Engineering*. 2014, (01), 183.
- [2] Wang Xin, Jiang Peng. Research on the digital of screen printing. *Journal of Chifeng University*. 2014, (18), 101-102.
- [3] Yang Hong. Development and application of computer technology in the era of digital and information technology. *China Computer & Communication*. 2019, (14), 17-18.
- [4] Xiao Wude. Development and application of computer technology in the era of digital and information technology. *Electronic Technology & Software Engineering*. 2019, (01), 122-123.
- [5] Chen Jian. Development and application of computer technology in the era of digital and information technology. *Computer Knowledge and Technology*. 2018, 14(33), 212-213.