Analysis on the Application of Computer Information Processing Technology under the Background of Big Data

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Abstract. The era of big data is officially coming, marking that my country has officially entered the era of massive information. Computer information processing technology is an innovative product of the rapid development of my country's scientific and technological information field, which is of great significance to the development of society. In this regard, this article mainly discusses the application of computer information processing technology in the context of big data, hoping to bring theoretical help and guidance to relevant technical personnel.

Keywords: Big Data, Computer, Information Processing, Application technology

1. Introduction
As the high-speed progress of computer technology in China, the Big Data era has been duly arrived. As a critical skill in the background of the age of big data, computer technology can be applied to many fields. At this stage, the data security problem in a background of big cloud computing is mainly reflected in the loss or damage of data. Usually in data access as well as data control links are prone to problems. For a series of data problems in the context of big data, can be solved with the help of computer based information handling technology. In this paper, this paper mainly discusses the computer application of large data background technology of data handling [1].

The development Big data makes people's quality of life significantly improved and makes people's work efficiency greatly improved on the previous basis. Likewise, the development of big data technology has a higher level of computer applications and requirements in all aspects. A lot of modern applications of computer IT are being used in all industries, and computer IT has made great contributions to all industries [2]. People's application of IT to computers has become more extensive and deeper with the advent of the big data era, and on this basis, many professionals have again conducted deeper research and exploration of computer information technology, and some computer information technology professionals have also put forward new ideas for the development of computer technology as well as the orientation of development [3].

2. In the Age of Big Data, Computer Information Treatment Concepts and Common Problems
2.1. Definition of Computer Information Processing Technology
Generally speaking, this technology mainly refers to the realization of a series of data processing
procedures with the help of a computer, including the collection, transmission, analysis, arrangement, storage, etc. of data information. Computer information processing technology is highly integrated. Through computer communication networks, it can also realize the function of data information transmission. Under normal circumstances, information processing technology can also be well integrated with other similar technologies. Through the integration of computer technology, database and communication network technology, it can also be said that the information integration of the database is realized. Usually, information processing technology can also be well combined with other similar technologies, through the integration of computer technology, databases and communication network technology, but also to achieve the integration of information database, so as to alleviate the pressure of manual operation, and information more complete data transmission capabilities, the information treatment more expeditious and efficient [4].

In the context of the era of big data, the development of computer information processing technology is changing with each passing day, but it also faces technical challenges. In this regard, relevant technical personnel should further strengthen the research and development of computer information processing technology in order to improve the application effect of this technology.

In the current era of increasingly advanced informatization, big data is to transform massive amounts of information into relevant data using specific algorithms and methods to present the final results demanded by society. Big data is called big data because the capacity of big data is generally 10TB-1PB [5]. The reason why big data is called big data is because the capacity of big data is generally 10TB-1PB, and the data processed in the process of handling data in big data is only the relevant information that is taken as a vehicle by big data. However, according to the latest survey results, most of the current data cannot be acquired, analyzed and processed by most computer software. Therefore, the current computer information processing technology in our country still needs the efforts of computer technology professionals to develop and explore software suitable for social computer information processing technology.

2.2. Common Problems of Computer Information Processing Technology in the Era of Big Data
In the era of big data, computer information processing technology also has some problems. First, the problem of data loss is the most obvious. The big data cloud computing data security issues are divided into internal and external categories. In particular, problems of domestic security are basically related to human factors operating in contravention of relevant security measures, resulting in corruption of DB and loss of data and other information. In addition, there are also internal managers who violate their duties privately and illegally sell user data for their own benefit, causing data loss and threatening user information security. External security issues are mainly due to the negligence of users’ own operations and failure to establish relevant security measures in a timely manner, resulting in hidden risks in data storage, and ultimately resulting in the loss or damage of data contained in the big data cloud computing platform. At the same time, there are also cases of malicious tampering with data files by outsiders, causing users to have the authority to conduct illegal access and data loss. At the same time, there are also data isolation security issues. Under normal circumstances, the actual application of big data technology involves a shared operating environment. In this environment, it is easy to cause data isolation security issues. Take an enterprise as an example. During the operation of the enterprise, it is usually necessary to apply a big data cloud computing platform for collective office work. In this case, data isolation security issues are likely to arise [6]. If encryption is not done in the process of data transmission and sharing, or the external computer is not isolated during data transmission, hacker intrusion may occur, which may leak important data information within the enterprise, which will have a serious impact on the development of the enterprise. For this reason, in the big data computer information processing technology, upgrading the isolation security key is essential.

The main data is made up of computer-processed characters, figures and symbols through certain algorithms. Computer information management technology is highly valued and extensively used in various socio-economic industries, such as network technology, computer technology, civil
engineering and even education, etc. Computer information management technology can provide professional and high quality services in various fields and at the same time enable enterprises with computer management technology to obtain large profits. The emergence of computer information processing technology represents a revolutionary innovation in the way society produces [7].

3. A Discussion of the Current Barriers and Obstacles to Computer-Based ICT.

3.1. Discussion on Information Security
The current social concerns with the growth of the age of information are mainly about information security. Through the deep application of big data by various enterprises or government departments, all the data containing commercial value or even political data may be disclosed without the knowledge of enterprises or government departments. Through the profound use and promotion of big data to the whole society, big data is applied in all the working life, if the computer is attacked, then it will definitely cause great unimaginable serious consequences. On another hand, with the spread of the network in the social life, some illegal elements smell the smell of illegal profits, which gives the criminals a space to buy and sell information, which brings great information leakage to the community of enterprises and individuals.

3.2. Discussion on Talent Demand
Computer application processing technology application with the advent of the big data era and the more extensive the development of science and technology, but even the development of big data technology to a certain extent will inevitably encounter some problems, therefore, this time it is necessary to carry out computer information processing personnel in terms of mechanism innovation, so that the computer processing technology of their own deficiencies to be fully compensated. The update speed of the computer in most cases is faster than the training of computer information technology personnel, and any failure of the computer in information processing, computer information technology professionals require a considerable amount of time to repair the computer, which to a certain extent the development and update of computer information processing technology has created obstacles, coupled with the current computer professionals in China [8]. The lack of such technologies makes it even more difficult for the relevant ICT to meet the current requirements of the big data era.

3.3. Discussion on Data
Nowadays, with the rapid development of major data technology, virtually always presented by large amounts of data, but in this process, big data also faces a great challenge, such as the inability to timely screen the corresponding complex data, analyze the data and transfer data to a designated location. And most importantly, it is a daunting and inefficient undertaking to accurately filter important data messages from massive amounts of data.

Under the background of the rapid development of BDS, the socio-economic sectors or industries are inseparable from the application of PC skills, and in each industry computer technology has played its due role in the performance. However, different industries tend to have their own special needs, so in order to meet the special needs of each industry that creates social value, computer processing technology must be constantly innovated and developed at the scientific and technical level [9].

At the moment, computer technology is gradually combined with cloud services with the rapid growth of scientific knowledge and expertise. Meanwhile, it also creates an information platform, which integrates various data and information collected according to a certain operation mode, promoting the efficient use of cloud computing to a certain extent.

4. Application of Computer Information Processing Technology in the Big Data Era

4.1. Computer Information Processing Technology in the Big Data Era
DEEPWEB data recognition and collection technology, as the mainstream technology of the big data computer era, has a certain role in promoting computer technology. This technology belongs to a relatively in-depth network technology, and has significant characteristics such as large amount of information, high dynamic quality of information, and rapid dynamic changes of information. At present, this technology mainly integrates high-quality data by maximizing data, extracting and merging it. In addition, the application of distributed data storage technology is also more common. This technology is mainly to further strengthen the storage function of the computer, and then came into being. This technology can realize the rapid loading of massive data in a short time, and these There will be no missing data. It has the functions of reducing the query time of data information and improving the data storage of the computer. Data mining based on content information is mainly through web search to achieve rapid retrieval. The hotspot of Internet information retrieval is ranking learning algorithm. In practical applications, it can achieve rapid retrieval from massive data and is widely used on some large websites. This technology has significant short text functional characteristics, and can realize network search technology and entity association analysis.

Computer information processing technology plays a very important position, and this technology includes the collection of massive data and the screening of related data. Data screening is to select the required information in a targeted manner, and enter the most suitable data to provide a shared database. To a certain extent, computer information processing technology is important for the units and individuals in the society that need this technology. Great help was given. Secondly, the database analyzes and filters the information in detail, and enters it into the database efficiently. Finally, the database is gradually transferred to each user, achieving the data transmission goal to a certain extent.

4.2. Application Data Encryption Technology
The application of data encryption technology can effectively manage the large data milieu in the context of BD. Through processing the original code of various types of information in the enterprise network, it can enhance the security of information data during the operation of the enterprise network and prevent the leakage of network data information. Currently, data encryption technologies commonly used in data security maintenance under the background of my country's big data cloud computing include: key cryptography, vulnerability scanning technology, and authentication technology. Take key cryptography technology as an example. This technology encrypts all data information in the enterprise network computer system by setting the corresponding key to prevent theft. Key encryption technology commonly used encryption methods such as node encryption and link encryption can effectively ensure the security of enterprise data information in the context of big data cloud computing. Vulnerability scanning technology is mainly used to scan and kill viruses in computer systems to promptly develop hidden security risks in the corporate data environment and repair them. Authentication technology is generally used to confirm the identity information of enterprise technical personnel. Usually, with the help of digital signature authentication, the identity information of the technical personnel can be effectively checked, and the application subject performs identity identification to prevent illegal personnel from pretending to be corporate technical personnel and stealing data information [10].

Computer information storage technology is to facilitate the use of each user, the required information into a database, under extremely special conditions, the user can still search for the required information and directly call up the information, at present, as a result of the continuous development of the technology, cloud storage technology has been applied to all sectors of society, for people's lives to provide a certain degree of facilitation.

4.3. The Development Direction of Big Data Computer Information Processing Technology
In summary, the emergence of the big datum era has transformed people's traditional way of life and work. Currently, the technology of computer network has seeped into people's life. Big data cloud computing has powerful data processing and analysis functions, its working principle is mainly based on their own needs to obtain the corresponding resources to complete the work task, with the computer
has the resources to support their own needed data. In general, computer based IT technology has become the trend of the times, and there is still a vast space to improve the comprehensive quality of the technology in the future [11].

5. Conclusion
In a word, with China's socio-economic development, the era of big data has arrived, and as a key sign of the advent of the time of big digital data, it has become the trend of the times for developing computer equipment and information treatment equipment. In view of this, only by continuously improving computer technology can we meet the development needs of modern technology. In this regard, this paper mainly discusses the use of computer based on the background of big data and hopes that it can bring help to the relevant personnel.

In the framework of big data, there is a need for purposeful innovation of computer ICT, as well as a corresponding improvement of computer ICT throughout the process of innovation. Through the detailed analysis of computer treatment skills in this paper, it has been applied in a profound way. It is hoped that this paper will make some contribution to the development of computer data handling in the background of the big datum era.

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