Optimization Strategy of Computer Automatic Control System Based on Artificial Intelligence

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Abstract: The computer automatic control system of artificial intelligence is an important technology which has developed with the development of economy and technology in recent years, and this technology has shown a very important position in all walks of life in our country, especially in the development of the industry, the computer automatic control system of artificial intelligence can not only help to improve the operating efficiency of equipment in the enterprise, but also help to protect the safety of the relevant staff. In recent years, computer control system has become a very important part of modern information system on the support of artificial intelligence technology, its optimization and progress for China's social development is very important. This paper briefly analyzes the optimization strategy of computer automatic control system based on artificial intelligence, aiming to provide help and reference for relevant personnel in China.[1]

1. Introduction
In the development background of modern society, the computer automatic control system based on artificial intelligence can not only promote the development of our country's society, but also help the construction of modern society. With the deepening of China's information process in recent years, artificial intelligence computer control system has been widely used in various industries in society. It not only has a profound impact on the development of society, but also has a necessary direction for China's future social development. The computer control system based on artificial intelligence will help our country's various industries to carry out more efficient work, make all walks of life in our country to be effectively promoted, greatly improve the level of automation of modern production, and also improve china's talent market, so that more new professionals will appear in the talent market, and further meet the future development needs of China's information industry.[2]

2. the Application Status and Practical Function of Computer Control System

2.1. the Approach Status of Device Management
At present, the main way is still based on the original manual operation in the work of the computer management of equipment for most of China's industries. In the operation, the relevant staff needs to control and manage the equipment in accordance with the production of mining. In the coordination between equipment and equipment, the staff members realize remote communication through the form of radio, the computer deployment staff adjust the parameters according to the condition of production or application after the first-line staff report the production status; this management approach is not
only original and labor cost is high, at the same time, because there are some differences between the operating systems of each device in the management, so the staff in the processing may have a certain degree of proficiency problems. For different equipment in the operation, its operational accuracy and proficiency will also be affected, so in the actual management process, the human and material costs are higher.[3]

2.2. the Effect of Computer Automatic Control Based on Artificial Intelligence for Equipment
In the process of construction, the equipment automation system includes a lot of artificial intelligence computer automatic control systems, usually including automatic power distribution system, automatic control system, automatic monitoring system and central air conditioning system. The management level of various equipments can be further optimized and the application efficiency and level of different equipments can be improved through using artificial intelligence computer automatic control system. Now, the current scope of the application of computer automatic control technology in the equipment is also more and more extensive combined with the actual situation. The structure of the equipment is unusually complex and large, the use of traditional control and supervision technology can not adapt to the needs of the new situation and can not carry out all-round and effective monitoring of equipment, which will lead to the management of blind spots, for the normal operation of the equipment has a great impact. After the computer automatic control system using artificial intelligence, the equipment can use the monitoring system to monitor and collect the equipment health in the production process in real-time. In this way, the enterprise's internal equipments 7X is in 24 hours comprehensive monitoring, greatly reducing the possibility of automatic control system failure in the course of operation, helping to ensure the normal and stable operation of the automatic control system.[4]

Nowadays, intelligent control and network supervision can realize automatic computer control, and automatic computer control can connect the various devices in the production process to each other, so that it can become a perfect linkage system, and thus improve the use of equipment. For example, when the equipment is running, if there is a fire hazard, the computer automatic control system can detect the fire signal in time, and other systems completely shut down, while turning on the fire sprinkler system to control the fire. One of the characteristics of automatic control system in the course of operation is its inevitable danger, once in the actual operation there are operation errors or equipment failures, the operation of the automatic control system may lead to security risks. The use of computer automatic control system can effectively solve this problem, once the equipments have problems, artificial intelligence system can make a quick and correct judgment according to the actual situation on the ground, and protect and manage the field environment. Compared to the remote control system, computer automatic control system has a better quality and can obtain better management results.[5]

3. Optimisation Strategy of Computer Automatic Control Electrical Ground Protection Technology

3.1. Performance Test of Artificial Intelligence Computer Automatic Control System
In the development of modern society, the optimization of the appropriate computer control system based on artificial intelligence can help to improve the quality and level of artificial intelligence computer control system. The development of computer control system under the control of artificial intelligence can be in line with modern social needs through reasonable optimization. Therefore, after the optimization of the computer's automatic control system, the staff also needs to carry out a comprehensive test and analysis of the performance of artificial intelligence, so as to ensure the quality of the computer automatic control system.

First of all, the relevant staff need to understand the performance of the traditional computer automatic control system and the performance differences of computer automatic control system based on artificial intelligence. We can understand the performance optimization of the computer automatic
control system supported by artificial intelligence by making an effective comparison of it. In the test, you can test two kinds of bath bucket red, as well as the same simulation under the test, as far as possible to reduce the external interference to the automatic control system, which can make the computer control system performance test results more accurate through reasonable management. At the same time, it is necessary to compare and find the difference between the computer automatic control system based on artificial intelligence and the traditional computer automatic control system. Understand the advantages of the computer automatic control system based on artificial intelligence, and understand the necessity and importance of optimizing the computer control system based on artificial intelligence through reasonable management. In testing, the staff needs to pay attention to the management of the variables, take performance optimization after the completion of the test as far as possible, and the relevant enterprises and managers need to improve and adjust for performance defects, in order to ensure accurate judgment of artificial intelligence, improve its reliability and the quality of subsequent applications.\cite{6}

3.2. Strengthening the Relationship Between Computer Automatic Control System and Social Reality

In the optimization of the computer control system based on artificial intelligence, its main purpose is to play its advantages of automatic control as far as possible, to help the development of society and different enterprises, in this way can improve the quality and level of social development in China, which requires the computer automatic control system to meet the development needs of modern society when it is improved. From the practical point of view, staff need to grasp the actual situation, to enhance the practical significance of the optimization of computer control system based on artificial intelligence as far as possible, so that it is satisfied with the modern society for the computer automatic control needs. When the related units are in the optimization of artificial intelligence-based computer control system, the staff need to apply cloud computing and big data to it to understand the current situation in society through the selection of the cloud of big data, and understand the relevant data information, and do a good job of optimization processing for the relevant data information, which can ensure that the computer's automatic control system development direction is more accurate. In order to strengthen the connection between the computer automatic control system and society, we first need to strengthen the connection between the computer automatic control system and society, so as to guide the direction of the computer automatic control system and the needs of the society have a high degree of fit. When different enterprises apply artificial intelligence to the management of computer systems, they need to adjust the development of enterprises and production needs, so that they can be used in the production needs to match, on the one hand, which can adapt to the trend of the times, on the other hand, can also ensure that the functions of computer control systems are fully played.
Figure 1: Varies Industries Application in the Context of Artificial Intelligence

3.3. Cultivate High-Quality Professionals

Human resources are very important to the optimization of computer control system, and artificial intelligence is a new type of science and technology formed under the background of modern science and technology development. Human resources are in a very important position. Therefore, enterprises and departments need to strengthen the training of high-quality personnel, and constantly make their own skills of high-quality personnel apply the computer control system optimization, so as to ensure that the ability of talents to be fully applied. Therefore, the talent market should be connected with modern and efficient, strengthen the training of high-quality talent and training direction, as far as possible to enhance the security and scientific nature of artificial intelligence computer applications. In addition, the computer automatic control system based on artificial intelligence needs to be clear about the direction of the development of the automatic control system when it is optimized. And I look at the education department's educational concept also need to ensure that modern high-quality talents have the ability to control the automatic control system of artificial intelligence computer, so that the computer control system of artificial intelligence can be used better in various industries.

For the time being, in the construction of the automatic control system, the equipment needs to be supported by a large voltage and current during operation, and in order to avoid other problems such as short circuits, it is necessary to connect various uncharged metal parts in the computer equipment and ensure their good grounding, while grounding, it is necessary to avoid the equipment metal parts connected to the ground or neutral wire. In the installation of the surge guard, it is necessary to keep the length of the ground wire as far as possible is not worth the shortest and keep a straight line state, this is due to the longer the wire, the greater the total impedance, and the greater the impedance of the normal action of the surge protector will be affected by the high impedance, resulting in a larger
voltage. And the high-frequency transient voltage will cause resonance, if the resonance interacts with excessive total impedance, it will cause the ground effect to be exactly the same as the open circuit, affecting the grounding effect. The ground wire of the surge guard should shield the sheath wire cable as far as possible during installation and maintain the isolation installation, especially when the ground wire, choose a double or multi-stranded intersection as far as possible, and not select a single copper wire as much as possible. This is due to the larger surface area of the two-share or multi-stranded intersection, which guarantees a smaller impedance and high application safety performance. Relevant staff should keep the ground wire of the device in a straight line as far as possible when designing the ground wire, and avoid bending diagonally along the corner of the wall, so as to ensure the operating quality of the ground wire.

4. Conclusion
Times are constantly developing, society is also advancing, computer automatic control system based on artificial intelligence needs to follow the changes of the times and constantly improve and optimize, which is also the main direction of the development of artificial intelligence in modern society. Artificial intelligence computer automatic control system should be as far as possible to adapt to the development needs of modern society, and constantly optimize the technology, so as to meet the modern market for the demand of automatic control system, so that all walks of life in China can be effectively developed and promoted.

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