Research on the Construction of Humanistic Smart City based on Internet Technology

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Abstract. The times are advancing and science is developing, which promotes the improvement and perfection of the Internet of Things technology, and more and more scenarios are applied. The Internet of Things can be seen everywhere in life, and urban planning is also deeply affected. This phenomenon is enough to show that this technology is the key to promoting the country to make greater progress in today's society. This article mainly analyzes and summarizes the problems existing in the application of Internet of Things technology in urban buildings and proposes some more perfect measures.

Keywords: Internet of Things Technology, Construction of Smart City, Core Technology

1. Introduction
The so-called smart city is a systematic and massive construction project. In the Angle of generalized analysis, involved in city building society, administrative management and the contents of the industrial development of the people's livelihood, in the narrow Angle analysis, contains the wisdom construction of city data information collection, calculation, analysis, and the use of big data, etc., thus found that in the urban development in wisdom, the contained content is relatively complex, need a comprehensive analysis of its content, in order to improve the value of wisdom urban construction. However, There must be certain problems in the current preliminary stage of smart city design and construction. Therefore, after determining the original intention and goal of building a smart city, continuous improvement of the Internet technology is used to continuously improve the urban construction plan to better meet the development needs of the society [1].

2. Problems existing in the construction of smart cities

2.1. Lack of professional technical support
Technology industry at this stage in the process of operation, high-end products, components and uhf sensor of the electronic tags still rely on traditional products in production, this kind of technology with the advanced urban construction there is a certain difference, lead to construction of city can meet the construction requirements, wisdom city obstacle for the construction of city.
2.2. *Lack of uniform technical standards*

On the basis of analyzing the status quo of modern city development, various data standards for urban construction are analyzed. Of course, this also affects the development of the Internet and the value of technology applications. It is not difficult to find that some technologically advanced countries have certain professional technical standards when rebuilding smart cities, but the construction standards have not been unified, leading to the lack of integrated standards of construction technologies. Therefore, in the specific construction process, we should recognize the lack of uniformity of technical standards and construct targeted optimization strategies so as to realize the effectiveness of urban construction [2].

2.3. *Lack of legal supervision mechanism for safety*

In the modern technologically advanced society, the emergence of the Internet of Things technology has solved and promoted the needs and development of smart city architecture in China. Of course, the penetration and participation of network technology has led to a certain aspect of the construction of this smart city. The fatal problem is that in this Internet era, there will be many insecure factors such as network virus attacks and hacker attacks, and these factors will seriously threaten the data information of users in the system, and even make data stolen, tampered and The possibility of loss shows that the information in Internet technology lacks a sound safety supervision and legal supervision system, which is also an important factor that seriously hinders the construction and development of smart cities.

3. *Application of internet of things technology in the construction of the whole city*

3.1. *The creation of intelligent communication in urban construction*

The Internet of Things technology should be used as the key to urban construction in the design and specific construction of the smart city construction plan, through the use of mobile communication equipment project scheme, can fully meet the wisdom city construction and development needs, realize the wisdom of the mobile communication, and meet the demand of intelligent network information transmission in the city, achieve wisdom city construction effectively. With the construction of smart city, in order to realize the value of the construction scheme, the reform of mobile communication should be taken as the key point, so as to meet the value of data transmission and exchange. In wisdom city communication project integration, for example, through the construction of the Json data interchange format, system can realize data format to build simple, and satisfy the demand of the data is read, in this kind of system operation, can directly provide support for the server, simplifies the server and client code development, promote the stability of the wisdom urban construction.

3.2. *The establishment of intelligent security in urban construction*

Under the rapid development of the Internet of Things, many types of Internet technologies have emerged, which can take measures to improve and prevent various shortcomings in social development. For example, the participation of Internet technologies in the construction of the entire smart city leads to user data The security of information preservation is low, and data mining technology is a very good information protection technology. It can better improve the security of smart cities and prevent insecure factors. The following tasks should be completed to better improve safety: First, create safe urban public service places to meet the safety requirements of urban construction. For example, through the analysis of security factors such as urban streets, banks, postal services and motor vehicles, the security construction of smart city is carried out, so as to improve the value of urban construction and meet the demand of the technology use of the Internet of Things and cloud computing. Secondly [3], in the establishment of urban safety agencies, the design ideas of Internet of Things technology should also be used, and the technology should be used for wireless
movement and tracking and positioning. As shown in the figure, it is a diagram of an intelligent transportation system built through Internet of Things technology.

![Smart city transportation system](image)

**Figure 1.** Smart city transportation system.

3.3. *We will improve the legal system for smart cities*

Through the analysis of the wisdom urban construction situation, found that under the background of this kind of development, needs to have the use of the Internet of things, cloud computing, but, in the two kinds of network data using, there is the phenomenon of regulation legal system is not perfect, therefore, the perfect legal system of wisdom city, should do the following contents: first, strengthen the safety use of network technology, improve the safety level of wisdom urban construction. For the smart city construction personnel, the safe and core security system design scheme should be gradually improved, And to meet the security of information through specific security technology. Later, we must strengthen its security supervision, so that companies can better encourage investment in network security technology. Second, actively strengthen urban construction and management, improve the supervision and management system. In wisdom city safety in the process of building, should be in emphasis on the protection mechanism of the security levels, build perfect sex of Internet of things, cloud computing security assessment mechanism, component evaluation mechanism and security mechanism. And further strengthen the construction of smart cities by improving the safety system, improve the legal requirements of the wisdom urban construction. Third, we should introduce a perfect legal guarantee mechanism to improve the basic value of smart city construction. For government departments [4], it is necessary to take the initiative to coordinate enterprises to analyze legal problems, avoid legal problems in urban construction, and integrate legal contents against the limiting factors in smart city construction in the context of Internet of Things and cloud computing, so as to effectively promote the stable construction of smart city.
4. Smart cities under the Internet of Things technology

4.1. Internet of things architecture.
This information age allows people to learn about things online, and the specific structure is composed of a perception layer, a network layer, and an application layer. Figure 2 is the architecture diagram of the Internet of Things.

![Architecture diagram of the Internet of Things](image)

**Figure 2.** Architecture diagram of the Internet of Things.

5. Application of Internet of Things technology in smart City Construction

5.1. Intelligent building
Applying the Internet of Things technology to the construction of smart cities means to infiltrate the Internet of Things technology in the construction of various communities, achieved the integration of household intelligent home security and other intelligence community in the process of, cloud management platform and the owner of the mobile client is the key to realizing the community wisdom, property through the use of the Internet of things and Internet technology, the cloud management platform with mobile phone owner is linked together, make owner using the mobile client can be anywhere at any time to view the of all kinds of property information, enjoy a full range of content of drawingFault repair service, for example, intelligent buildings will be using the Internet of things technology on elevator set of internal system self-checking system such as water power grid, install fault location devices at the same time, thus effectively determine the specific scope of the fault, after the cloud management platform to owner sends troubleshooting progress results and other related information, help the owner to the whole process of dynamic management fault repair service [5].
5.2. Smart tourism

Based on Internet of things technology through web collect and organize vast amounts of information and keep adding all kinds of tourism elements in combination with the actual situation of tourists and specific needs with the help of in-house software, all the tourism resources of intelligent analysis, for the tourists "private tailored" make special tourist route, such as online complete tourist products trade and related business consulting, offers visitors the intelligent tourism services. At the same time, it also provides tourists with a series of other related services, such as hotel accommodation, dining options, consumer rights protection and so on, to further enhance the satisfaction of tourists and meet their tourism needs as far as possible.

6. Conclusion

In short, at this stage of building a smart city, the Internet of Things technology should become the core of the construction to improve the quality and value of urban construction, while better meeting the construction needs [6]. By building a smart city, you can fully meet the needs of more cities. The construction of ordinary smart cities requires the integration of smart communication, smart security and smart legislation to build modern smart cities, increase the value of urban construction and meet the basic needs of the city.

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