Research Article

The Construction and Development of App Application Platform for Public Information Products of Urban Grand Media in the Context of Artificial Intelligence

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This paper conducts in-depth research and analysis on the construction of the public information product APP application platform of urban big media in the context of artificial intelligence and discusses its development. Based on the improvement of the SICAS model, a model of enterprise and user information interaction characteristics in the new media environment is constructed, and social network analysis and semantic analysis methods are used to research enterprise and user information interaction characteristics in the new media environment. The point degree centrality index is used to analyze forwarding and being forwarded behavior in information interaction, the intermediate centrality index is used to analyze following and being followed behavior, the proximity centrality index is used to analyze the cohesiveness of information interaction behavior, and the semantic keyword word is used to analyze the semantic keyword word in the research process. The results of the study show that the constructed model can analyze the information interaction behaviors of enterprises and users in the new media environment. The research results show that the constructed model can systematically analyze the information interaction characteristics, and the information interaction between enterprises and users in the new media environment is more timely, more effective, and more satisfying to users. The current situation of the construction of the public information platform and the problems existing in the construction are proposed to achieve the standardization of the construction of the public information platform in the context of smart city, the construction of the platform supervision system, and the strengthening of information security publicity and talent training. To offer a suitable platform and provide efficient solutions for the development of a public information service platform in the city, enhance the professional quality of research papers and dissertations, as well as the solutions’ operability. More public services will be provided in a highly connected way across the boundaries between government, enterprises, society, and citizens and even form a public service market that accepts autonomous choices and becomes an important part of the digital economy, thus finding a good balance between economic development and social welfare.

1. Introduction

The development of regional science and technology collaborative innovation information service platform is not sound, and relevant science and technology information cannot be disseminated timely and effectively, which makes it difficult to produce major original science and technology achievements; the promotion and transformation rate of science and technology achievements is low, the duplicate construction and waste of science and technology information resources are serious, and the government, industry, academia, research, and application cannot be effectively united [1]. Therefore, from the theoretical policy of building a public information service platform for regional science and technology collaborative innovation, it is important to study the relevant theories, current situation, domestic and foreign experience, and strategic system of the development of this platform in this paper. The key to creating an innovative
Hunan is collaborative innovation between government, industry, university, research, and usage as the primary body, as well as constantly increasing the scientific and technical innovation capacity of businesses. In this paper, by systematically studying the current situation, problems, domestic and foreign experiences, and countermeasure suggestions of Hunan regional science and technology collaborative innovation public information service platform, an effective scheme is formed in theory for the construction practice of Hunan regional science and technology collaborative innovation public information service platform so that the construction of the platform can be carried out in an orderly manner under the guidance of theory [2]. By defining the relevant concepts of regional science and technology collaborative innovation and its public information service platform and drawing on the advanced experience of the construction of regional science and technology collaborative innovation public information service platform at home and abroad, we analyze the problems of Hunan science and technology collaborative innovation public information service platform, make suggestions for the construction of innovative Hunan, and provide a useful reference for the decision of the construction of relevant information platform [3]. Furthermore, the higher externality of public information and the openness and interactivity of China’s public information platform construction define the larger significance of information security guarantee job, and the staff is likely to be under more strain. In many cities, cloud technology is represented in the operations of public information platforms in many areas. In the background of the era of big data, the information security of public information platforms is facing a severe test, and the situation of guaranteeing the information security of public information platforms has become more urgent.

After collecting and reading a lot of literature on the construction of public information platforms, a preliminary summary of the current situation of information security of public information platforms shows that the importance attached to the information security of public information in the process of platform construction is gradually strengthened and deepened, and the measures for information security can be started from various aspects such as technology and management, combined with the actual situation and tried to be refined into specific measures [4]. For example, at the level of managers, there are specific suggestions such as increasing the participation of senior managers and integrating the idea of front-end management into the crisis management of public information security. According to the current stage of front management application and development, the thesis first sorts out the general rules of front management in many aspects such as management subject, application object, and application scope, after careful comparison and observation of various front management application scenarios, and studies the use of front management ideas and methods to give solutions to countermeasures, to play a role in preventing platform information security problems and ultimately reducing the occurrence of information security problems of public information platforms. Information security problems occur, guarantee the information security of public information platforms, deepen citizens’ awareness of the importance of information security of public information, and reduce the negative impact on China’s politics, society, and economy caused by the information security problems of public information platform [5]. The main object of this study is the public information platform in China, and the main work of the study is to prevent the information security problems of public information platforms. The issues with the platform’s functioning are first observed from the user’s viewpoint and then evaluated from the manager’s perspective to see what information security issues these issues may bring to the public information platform. We take the sports public platform as the observation object, sort out and categorize the information security problems in the platform, and then apply the predecessor management laws and methods previously summarized to propose countermeasures for the prevention of information security problems that commonly exist in China’s public information platform.

The goal of constructing a social public information service platform is to offer public information services to society, which has recently been our government’s top priority in developing an e-government system. At present, our government is in the stage of functional transformation, and we should pay attention to strengthening the construction of public information services. Under the market economy system, our government should take public information services as an important task, and the root of public information services lies in the construction of public information service platforms. SMEs offering physical products are more likely to use social media based on cost-benefit motives, while service-orientated SMEs are more likely to consider interactivity as a key motive. Using Xiaomi as an example of a new kind of Internet business, it is determined that the new effort to enhance the company’s competitive advantage is to increase the company’s ability and efficacy of information contact with its consumers. The information interaction between enterprises and users is value-added, personalized, creative, and not easily replicated and is a new source of overall competitive advantage for business operation planning. With the development of information technology, increased enterprises interact with users through new media platforms, and it is of great significance for enterprises to effectively serve consumers and tap their needs by collecting and analyzing user data to understand their information needs and find out the factors and behavioral patterns that affect their willingness to interact.

2. Current Status of Research

To discuss and analyze the overall status and trends of media content production nowadays, the era of smart media is getting better and better, with big data deeply linking smart media and users; robot writing, algorithmic production, and personalization have profoundly changed the way and process of traditional content production [6]. Media convergence has caused a huge impact on the content production of traditional media, so a large part of scholars discuss content production in the context of “how traditional media can
adjust and transform content production to adapt to the new media ecology,” more from the operational level to discuss production strategies and model transformation. Many scholars hope that libraries can fully exploit their unique resource advantages in terms of providing scientific and technological information services to businesses, as they have the functions of preserving human cultural heritage, developing information resources, and participating in social education, so they can become an important part of the public information service platform for collaborative innovation development of businesses in science and technology. University libraries, it is believed, can implement market-oriented operation mechanisms, formalize a complete set of operation mechanisms based on enterprise user target selection, service level management assessment, cooperative operation mode, and reasonable fee standard, and propose to set up professional management assessment, cooperative operation mode, and formulation mechanisms based on enterprise user target selection, service level formulation mechanisms, and a complete set of operation mechanisms for the development of SMEs, a specific organization and coordination method for information provision and a detailed operation plan are formulated [7].

Summarizing the development characteristics and information resource needs of these enterprises, a digital e-commerce information service platform that includes a combination of internal information resource management and external information infrastructure platform for enterprises was built through modern information service technology and concepts, and a specific and feasible integrated operation model was designed [8]. Recognizing the importance of creating an information service system for SMEs’ scientific and technological development, it is proposed that government departments create a public information service platform for collaborative scientific and technological innovation that includes higher education institutions, SMEs, and research institutes [9]. On the one hand, rapid socioeconomic development has given rise to rigid changes in the demand for public services in the time dimension, showing a shift from survival- and profit-motivated consumption to security-oriented, enjoyment-oriented, and development-oriented, with increasingly diversified public service demands and a more complex supply process [10]. On the other hand, digital technology has the potential to lower the cost of government-provided public services while also opening up new opportunities for accurate, diverse, and personalized public services. However, it also poses significant challenges: dissatisfaction with public services is amplified by the network, the government’s slow response appears more unacceptable, and individual demands are more likely [11]. In addition, cloud computing, big data, and other popular technical service functions are also incorporated into the public information service platform with the Internet as the main carrier. The policy promotion actions of digital cities and e-government also provide a stronger impetus for the development and maturation of China’s public information service platforms. However, public information platform is the gathering place of a large amount of public information, and its flourishing development is bound to be accompanied by the hidden danger of information security problems, and reasonable prevention of information security problems is one of the important tasks to realize good public information services [12].

Public services have a greater value importance in the context of governance modernization, and they are not only a touchstone for social governance reform but also an essential assessment indicator for analyzing and evaluating numerous changes in the area of social governance. Meeting the residents’ demand for more comprehensive and systematic development-oriented public services will provide strong support and practical guarantee at the micro level for the realization of the modernization of the national governance system and governance capacity. There are fewer terms specifically referring to public information platforms, and the research theme is more focused on achieving a networked and electronic e-government system for providing a better level of public information services. The importance of how public information services are accessed, utilized, and preserved in a networked manner is emphasized, advocating that attention should be paid to the selection and implementation of each linking approach, as there may be potential information security risks in these processes.

3. Analysis of the Construction of the App Application Platform of Public Information Products of Urban Big Media in the Context of Artificial Intelligence

3.1. Artificial Intelligence Background City Big Media Public Information Product APP Application Platform Development Design. Along with the rapid development of ecological stations, they have gradually realized the use of Internet technology for data query and visualization, but the current monitoring platform of ecological stations is inadequate in data analysis, still lacks in data visualization, and lacks a real-time feedback mechanism for changes in station conditions [13]. It is worth noting that the data visualization in the monitoring platform of the ecological station is mostly based on the initial data collected by the equipment and instruments, which is fine from the level of real-time data presentation, but is insufficient if used for scientific research analysis, so data preprocessing is needed on this basis, and data analysis and visualization are carried out using data such as mean and median values with hourly, daily, and monthly time granularity. The presentation will be better.

$$W_{\text{del}}^{\text{fair}} = \frac{1}{J} \sum_{j=1}^{J} \left( S_{\text{max}}^{j} + S_{\text{min}}^{j} \right),$$  (1)
\[
W_{\text{delay}}^\text{fair} = \sum_{j=1}^{J} \sum_{k=0}^{K} \left( \frac{S_{\text{max}}^j}{S_{\text{max}}^j + S_{\text{min}}^j} \right)^2 \left( \frac{S_{\text{max}}^j}{S_{\text{max}}^j + S_{\text{min}}^j} \right)^{-1}.
\]

In summary, the overall application of the current monitoring platform of ecological stations is lacking, and to a certain extent, it cannot meet the daily work needs of ecological stations, and mobile applications are needed to improve the monitoring system. Since the system integrates data from several ecological stations, the system needs to divide the users’ rights and read the data of the corresponding stations according to the rights to prevent data leakage. Furthermore, users of the “Internet+Ecological Station” APP are restricted to ecological station personnel and do not facilitate the access and registration of visitors. If a user accidentally forgets the password, he or she can use his or her email information to change the password. Its use case diagram is shown in Figure 1.

To complete data administration and maintenance of users, sites, and monitoring indicators, as well as to simplify the docking of data supplied from the “Internet+Ecological Station” data receiving platform, APP requires a backend management system. In the background administration, there are two types of administrators: one is the super administrator, who has all management powers and is held by the developer, and the other is the site administrator, who is established by the super administrator. The system should ensure the security of data, protect the server from malicious access and attacks, and avoid theft of important data and other unnecessary losses.

\[
S_{\text{min}}^i \geq W_{\text{delay}}^\text{fair} (P_{j,i,k}), \quad (3)
\]

\[
S_{\text{max}}^i = W_{\text{delay}}^\text{fair} (P_{j,i,k}) - W_{\text{delay}}^\text{fair} (P_{j,i,k})^2 - S_{\text{min}}^i. \quad (4)
\]

Some sensitive data, such as the user’s password and other information, need to be encrypted for front and backend data interaction. In the process of data interaction, access rights are verified, and it is strictly prohibited to obtain and modify information through illegal requests. For database query, insert, and update operations, strict parameter checks and restrictions are performed, and user input data is strictly verified to prevent SQL injection attacks [14]. In addition, for modules using WebView technology to prevent XSS attacks, do escape of sensitive characters in the code modules to be rendered. When faced with new functional requirements, ensure that the new functionality is feasible on top of the current system with minimal impact on the original system. The microservice architecture divides the system’s business activities into numerous microservices that may operate independently, resulting in minimal coupling between each microservice module and facilitating the company’s future growth

\[
\sum_{j=1}^{J} P_{j,i,k} = 1. \quad (5)
\]

If no valid information exists, continue to look in the local cache to see if it contains the user’s account and password, and if it does, use the saved account and password to log in. If the local cache does not contain the above information, the login screen is accessed to enter the correct account and password to log in. There is an alert box that appears if there is an error, which relieves server-side pressure. The login verification is performed once before the request to figure out what format to send the input information in. The front-end verification is passed before going to the backend to do the verification. Only data from the Zhejiang Academy of Forestry’s air station may be seen by users in this system, which restricts access to data from other stations. Following successful login, the user must query the station authority’s information and transmit the query result and the same login credentials to the front end of the system. The early warning and prediction module is in charge of detecting significant changes in monitoring data early and making short-term predictions based on that data. This module provides a guideline for alerting the most recent data with significant swings based on the threshold value to decide whether the data is abnormal or not in the majority of ecological station monitoring management systems. Short-term forecasting is the process of predicting something that will happen within a short period of time, such as the next few months. It is more accurate to make short-term forecasts than it is to make long-term ones, because there are many factors that affect indicator data, making it difficult to make precise predictions as time passes. This module uses exponential smoothing to predict the values for the next three days by sampling the data set for the past month to provide the user with reference values, as shown in Figure 2.

As mentioned earlier, from the system perspective, the edge computing system wants to reduce the desired system response latency (i.e., the mean of the desired response latency of all users) as much as possible to provide a higher system quality of service to all users, but from the individual user perspective, each user in the system wants the system to reduce its response latency as much as possible. Because of this, this chapter is aimed at optimizing both the desired response latency of the system and the fairness of the desired response latency among users across domains (i.e., base stations). Formally, the problem studied in this chapter is defined as follows. Determine the optimal edge server placement and the mapping relationship from the base station to the edge/cloud server to minimize the system desired response latency and maximize the fairness of the desired response latency across base stations while satisfying the following three constraints. Any edge server must first choose a base station before being deployed at that base station’s location. Only one edge/cloud server may be assigned to each base station. Any edge/cloud server’s task arrival rate must not exceed that server’s maximum task handling capability.

\[
\Delta p_k = p_k + \sum_{j=1}^{N-1} A_{j,k} \lambda_j^{on},
\]

\[
\frac{\partial (L)}{\partial C_{q,k}} = W_{\text{delay}}^\text{fair} (P_{j,i,k}) + W_{\text{delay}}^\text{fair} (P_{j,i,k}).
\]

In the smart city construction, the city through the Internet of things and the Internet to the massive data collection
and transmission, through the cloud computing to the massive data storage and calculation, cloud computing is like the human brain cells, responsible for the storage and processing of information, and the network connecting the cloud computing resources is equivalent to the neural network between the brain cells, responsible for the transfer and exchange of data and information [15]. Because they all have a demand for storage and processing of massive data, cloud computing is widely used in smart cities, such as transport, communication, water and electricity, medical care, education, culture, and many other fields. Taking the approach of establishing a cloud computing centre can scientifically and efficiently solve the many problems faced in meeting this demand. In the field of urban public services to deal with emergencies, for example, cloud computing can dispatch and integrate the IoT information and data resources of different locations in the city, forming a logically unified data layer, providing overall analytical support for the intelligent decision-making layer, and helping the government to deal with emergency events with maximum efficiency.

A smart city should have three essential characteristics in terms of information technology: comprehensive information perception capacity, enormous data processing capability, and intelligent management service capability. Comprehensive information perception capability is to capture and transmit various information and data about the city’s operation and development through a sensor network consisting of many sensing devices widely distributed in the city. Massive data processing capability includes the ability to store massive heterogeneous data across departments and industries, the ability to efficiently calculate, analyze, and process massive heterogeneous data, and the ability to develop and intelligently apply knowledge based on data analysis. Intelligent management service capability refers to the establishment of a service-oriented integrated and unified public management platform for smart cities based on the public support platform for intelligent applications in
the smart city industry and the provision of universal, convenient, and intelligent applications and services for various industries and the public. Around the realization of these three capabilities, the smart city construction will form a new technology system including the Internet of things, cloud computing, and big data at present. This technology system will have a direct impact on the supply of public cultural services.

3.2. Analysis of the Development of Public Information Product APP Application Platform. In the process of smart city development, in the context of the rapid development of network information technology, the credibility of the government is affected by various factors, and the risk of being questioned by the people due to improper policies in the process of government administration is increasing day by day. Even if the people suffer losses as a result of crisis incidents, practice has shown that if the government can improve the transparency of its work and ensure effective communication with the people in the process of handling political crises, even if the people suffer losses as a result of crisis incidents, the government can improve the transparency of its work and ensure effective communication with the people in the process of handling political crises. They will actively cooperate with the government’s handling decisions with an understanding attitude, and the government will not lose its credibility. In the face of the public’s increasing awareness of information services and rising information needs, the government should meet the public’s demand for information disclosure to improve the transparency of government information. The public information service is an important means for the government to improve its credibility and scientific management and help the public understand and monitor the implementation status of the state public power by continuously widening the legal channels of public services [16]. People’s lives cannot be separated from public information resources, and it plays an important role in protecting the rights of citizens. The number of information resources available to the government in the building of wisdom continues to grow, which has a big role to play in enhancing public information services and, in the end, helping to protect people’s rights. Only by continuously widening the channels for the people to access public information can the protection of civil rights be realized in the true sense, as shown in Table 1.

In the process of wisdom construction, the reform of the economic system, the development of the industrialization of information technology, and the growth of economic quality have become the common needs of the whole society. Public information services should meet the development needs of the industrialization of social informatization and therefore should pay attention to the development, application, and sharing of public information resources to meet the public’s needs for public information. Along with the rapid development of the economy, the public gradually begins to pay attention to the value of information resources, only by acquiring more information can they gain more advantages in development, and the public gradually begins to focus on acquiring and mastering information resources.

| Number of services | Number of people | Percent   |
|-------------------|-----------------|----------|
| 10-12 items       | 147             | 13.92045455 |
| 7-9 items         | 145             | 13.73106061 |
| 4-6 items         | 275             | 26.04166667 |
| 0-3 items         | 489             | 46.30681818 |

For the government, timely access to information resources and an understanding of citizens’ needs can help reduce unnecessary human costs, effectively reduce the waste of information resources research and development, and promote the use of flexible market mechanisms for stakeholders to gain a competitive advantage. Construction of information technology infrastructure facilities for the whole society is a critical activity for the government when it comes to providing public information services. The construction of informatization infrastructure can guide the development of the economy in the informatization era and plays a fundamental role in the development of information technology, e-commerce, and the information industry. Therefore, to achieve the healthy development of the information industry of the whole society, the government should strengthen the construction of social information infrastructure.

The process of intellectualization has increased in tandem with the economy’s fast growth, and the phenomenon of cohabitation of different economic forms has emerged, resulting in changes in social structure and the creation of numerous interest groups. Due to the differences in information collection methods, information needs, and information literacy, the needs for forms and contents of public information services are also individualized and diverse. Due to the changes in time and environment, the public’s demand for public information services is also variable, which puts forward higher requirements for the government to perform its public information service function, as shown in Figure 3.

Before the government function was transformed, the government performed the social public information service function in the form of undifferentiated information services and personalized and specialized information services had not yet emerged. The public could only spend a long time and a lot of energy in undifferentiated information resources to gather information resources that suit their requirements, which is not cost-effective and incompatible with today’s fast-paced lifestyle. Therefore, on the one hand, the government should provide comprehensive public information services to the public, and on the other hand, it should also focus on the innovation of service concept and service model to meet the needs of different groups for information resources and provide specialized and personalized public information services, as shown in Figure 4.

One of the basic characteristics of information services is timeliness; in the process of wisdom construction, the public’s demand for information transmission speed is getting higher and higher; based on the development of urban informatization, the government should have higher timeliness in

Table 1: Number of services accessed through public information service platforms.
carrying out public information services [17]. First, the environment in which the government performs social functions in the developing social background is also changing, and the effective period of information is often shorter from itself; secondly, modern communication facilities have been generally recognized by the society, and the public can get information anytime and anywhere. Once the demand for a certain kind of information is formed, there must be corresponding information to meet this demand in time, so the government should pay attention to the timeliness of information in the process of providing public service information to society.

4. Analysis of Results

4.1. Performance Test Results. As part of software engineering, the system will utilize current hardware and developer tools in the lab to collaborate on testing and record and analyze the test results in real time to detect issues and make changes as necessary. During system testing, the focus is on two areas: functional verification and stress testing. Functional verification verifies that the different features created can satisfy the demands of users. Stress testing verifies that the APP server data interface remains stable under high loads. APP is distributed via the system for testing while the backend utilizes a Linux system as testing environment. The backend project is deployed to the server, and each microservice module must be delivered to a separate port. Functional testing of the system is primarily concerned with checking whether the APP functions as expected and whether the business processes of the ecological station can operate normally. It also seeks to ensure the system’s functionality is reliable and that the needs of the relevant personnel are met. The main functional test cases of each functional module are shown in Table 2.

Figure 3: Choice of service delivery methods for public information platforms for the population.

Figure 4: Conceptual framework of development theory.
application instances tested (i.e., 1000). As can be seen in this diagram, the method presented in this chapter, as well as the benchmark testing algorithms GEN and LOA, all achieve 100% scheduling feasibility; however, the benchmark testing technique ULF cannot ensure that all application instances are properly scheduled. This is because both the algorithm proposed in this chapter and the benchmark testing algorithms GEN and LOA optimize the computational accuracy of the application considering the deadline and energy constraints, while the benchmark testing algorithm ULF does not consider the deadline constraints of the application. Also, it can be seen from this figure that the scheduling feasibility of the benchmark test algorithm ULF implementation increases as the battery energy supply increases. This is because as the battery energy supply increases, more instances of the application will have the opportunity to execute on the end device without offloading the application’s computation process to a remote edge server, which significantly reduces the time overhead of forwarding the application input data from the end device.

In this paper, we design a scheme combining static response latency optimization and dynamic response latency optimization: for static response latency optimization, we first model the edge server deployment problem using integer linear programming technique and then solve the problem using an integer linear programming solver; for dynamic response latency optimization, we propose a base station-edge/cloud server remapping technique based on cooperative game theory, which can maximize the use of static response delay optimization schemes and reduce the complexity of dynamic response delay optimization algorithms. This paper also develops a user response delay verification platform adapted to the mobility of terminal devices and conducts many simulation experiments using the base station database of Shanghai Telecom to verify the effectiveness of the response delay optimization technique proposed in this paper in terms of reducing user response delay and algorithm running time.

This article offers a system lifetime optimization method that incorporates both static and dynamic phases: a mixed-integer linear programming technique is used to model the system life cycle optimization problem under application computational accuracy and real-time constraints, and then, a solver is used to solve the studied system life cycle optimization problem; for dynamic life cycle optimization, a task scheduling algorithm based on cross-entropy technique is designed. A task scheduling algorithm based on the cross-entropy technique is designed for dynamic life cycle optimization, which can quickly and efficiently adjust the task scheduling according to the energy state of the terminal device battery and adapt to the changes in application computation accuracy requirements caused by different user demands. This paper also develops a system life cycle verification platform adapted to the mobility of terminal devices, which can verify the effectiveness of various algorithms for synthetic or real applications in extending the system life cycle and explore the effectiveness of various algorithms in terms of task scheduling feasibility and running time.

4.2. Results of Application Platform Development. As a modern communication tool with extremely powerful information processing capability and high transmission speed, the Internet has broadened the channels for people to obtain information, enabling them to obtain a thousand different kinds of information humanities and scientific knowledge of the times from various networks. While the Internet has brought convenience to people, it has also caused a lot of negative effects. Negative reports about an event, regardless of the truth or falsity of the facts, will instantly ferment through the rapid spread of the Internet. People are overloaded with information as a result of the rapid increase of knowledge, and they experience discomfort as a result of this. Nowadays, we can know what is happening outside our windows without leaving our homes through a WeChat, brush the circle of friends, which largely grows our inertia and makes people lose the sense of thinking, and often, we are then influenced by the mainstream attitude and the

| Test function | Test case | Expected outcome | Pass or not |
|---------------|-----------|------------------|-------------|
| Log in        | Enter the wrong information and the correct information multiple times | Give a friendly prompt to the wrong information, and the correct information is successfully logged in | Yes         |
| Change password | Enter the password modification interface, and modify the password through the verification code obtained by the email address | Password reset complete | Yes         |
ability to discern downtown. In the rapid development of information technology today, network technology has penetrated all occupations, the Internet is closely related to people’s production and life, people are increasingly inseparable from the Internet, and the demand for the Internet is increasingly high.

But serious Internet security problems have risen with it. Openness is the most prominent feature of web technology. However, while the degree of openness is increasing, the security is getting lower and lower, and the security problem cannot be ignored. Illegal information theft, malicious data manipulation, and other events are all too often in the virtual Internet environment. Due to the weak self-protection awareness of Internet users and simple password settings, users are very likely to leak their information to others, which are the causes of Internet security incidents. Manufactured attacks, computer viruses, spam, spyware, etc. have caused serious damage to the system. Computer insecurity and problems with social information services are likely to endanger the stability of social security. The lack of security awareness, inadequate security system, and weak security precautions can cause information leakage. As an open service platform, the public information service platform, as illustrated in Figure 6, must work harder on this element of network information security.

To build a perfect public information service system, it is necessary to integrate all kinds of existing information resources on the one hand and to collect and integrate all kinds of fresh information on the other. Therefore, attention should be paid to the development of government public information resources and investment in basic equipment and the introduction of all kinds of information equipment such as mobile communication equipment, sensing equipment, and communication networks to integrate and exchange all information resources scattered in all kinds of software and servers. Using the current infrastructure as a starting point, network systems, storage devices, and hardware devices will be optimized and upgraded to enhance the accuracy, stability, and security of Internet information transfer. Strengthening the construction of regional science and technology collaborative innovation intermediary service platforms can be done in a variety of ways. Participating in the platform construction through developing membership is a proven way to ensure that science and technology intermediary industry associations play their prominent roles well. Following the principles of fairness, openness, mutual benefit, and reciprocity, we will enrich the organizational forms of various science and technology intermediary service associations and widely promote various activities such as market exchange and interaction and regional collaboration and communication. To guarantee the effective implementation of the membership system of science and technology intermediary service platform institutions, in addition to strengthening the construction of the association itself, it is necessary to formulate and improve the relevant constitution and system and continuously adapt and innovate effective service forms to provide users with more advantageous and convenient services. To achieve the platform’s development and growth, the science and technology intermediary service platform fully exploits the market’s promotion role, improves its management and operation mode, determines its development model based on whether it is profit-making in nature, and always keeps in mind the goal of providing users with high-quality science and technology information services, as shown in Figure 7.

The construction of information resource sharing platforms should work on mechanisms, mainly including the following aspects: first, establishing a mutually beneficial balanced cooperation mechanism, enhancing the sense of sharing and win-win situation, and providing appropriate rewards and compensation to typical institutions and individuals to stimulate the enthusiasm for resource sharing among society members; second, formulating relevant laws and regulations to regulate the construction of sharing platforms while preserving the environment; third, formulating relevant laws and regulations to regulate the construction of sharing platforms while preserving the environment; and fourth, formulating relevant laws and regulations to regulate the construction of sharing platforms while preserving the environment. It is necessary to classify and manage information resources, to establish reasonable and scientific-technical standards, to establish sound resource management and sharing mechanisms, to increase exploration and research on relevant theories and practices, to expand information resource sharing platforms, to lay the foundation for the scale effect of sharing platforms on a regional scale, to gradually accumulate public interest and basic information, and to promote the integration of information resources.

In the new media context, information interaction technologies include new media technology, computer technology, communication technology, interaction technology, and human information behavior analysis technology, among others. The development of the digital economy has been accelerated by 5G communication and artificial intelligence technology, and improving the capability of enterprise information technology can help improve the comprehensive management level of enterprises and the quality of
information interaction services to users. Specifically, strategies to improve the level of new media applications and system quality in enterprises and to improve the level of integrated information technology services in enterprises can be adopted to enhance services to users.

5. Conclusion

This article offers a system-based reinterpretation of what public service means. When it comes to studying public service, a variety of academic fields have done so. These disciplines, such as economics, politics, and management, have all done so, and each has put forth theoretical views on the topic. Every successful public service model has certain prerequisites. According to the Scandinavian welfare model, there are ample social resources available to ensure a high level of services per person, while in the market efficiency model the natural law of survival of the fittest prevails and therefore ethical-emotional considerations are missing from policy formulations. Problems in public services are closely connected to people’s fundamental interests and emotional needs. The emphasis of emotions may be narrowed when addressing fine details, but when it comes to social policy, it is critical to be able to address a broad spectrum of feelings. Therefore, the understanding of the nature of public services needs to return to a perspective that is closer to the complexity of reality, and complex systems theory is applied to social science without making polarizing assumptions, recovering the reality of social problems as much as possible, and not overly pursuing the absolute mathematical optimum. The development of regional scientific and technological collaborative innovation cannot be separated from the construction of public information service platforms. The government science and technology and other related departments have built some platforms that are conducive to information dissemination and resource sharing for the development of regional scientific and technological collaborative innovation. Therefore, what is required for the development of science and technology collaborative innovation in Hunan Province is a public information service platform with a complete structure, complete functions, complete infrastructure, and perfect services.

Data Availability

The data used to support the findings of this study are included within the article.

Conflicts of Interest

The authors declare that they have no conflicts of interest.

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