

# Research on the Reading Promotion Model of Universities Based on Smart Libraries

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**Abstract:** *With the development of digital technology, smart libraries have become a new model of digital reading services and have received widespread attention. This article analyzes the role of smart libraries in promoting reading in universities, and explores the management mechanism of smart libraries and measures to address issues such as security, data protection, and privacy protection. Regarding security issues, it is recommended to strengthen network security awareness training and adopt multi-level security measures; For data protection and privacy protection, it is recommended to strengthen data classification and permission control, establish secure backup and recovery mechanisms, and take measures such as encrypted transmission and storage. In addition, this article also proposes methods for establishing talent cultivation and management mechanisms, including conducting specialized training programs, actively introducing high-end talents, establishing compensation incentives, career promotion, and role model recognition mechanisms, as well as strengthening team management measures.*

**Keywords:** *Smart Library; Promotion of Reading in Universities; Safety Management; Data Protection*

## 1. Introduction

With the continuous development and innovation of digital technology, smart libraries, as a digital reading environment and service model, are gradually attracting people's attention and attention. Smart libraries integrate various digital resources and services to provide a convenient and efficient reading experience, providing users with more diverse and diverse reading services. Especially in the promotion of reading in universities, smart libraries have unique advantages and roles, which can help universities strengthen reading promotion work, enhance students' reading interest and literacy. This article will explore the relevant issues of smart libraries, aiming to provide reference for the practice and development of smart libraries.

## 2. The Definition and Characteristics of Smart Libraries

### 2.1 The Concept and Connotation of Smart Library

Smart library is a new type of library that organically integrates traditional libraries with modern information technology in the context of technological development such as digital technology and the Internet of Things. It not only has the functions of collecting, borrowing, and consulting traditional libraries, but also has various distinctive functions such as digital resource acquisition, digital services, academic exchange, and knowledge management.

The connotation of smart libraries includes digitization, intelligence, open sharing, data-driven, and personalized aspects. The smart library is based on digitization, digitizing and integrating a large number of paper books, journals, newspapers, thesis and other resources into the system, achieving full digital coverage.[1] At the same time, the smart library adopts modern information retrieval technology to provide accurate, fast, and comprehensive retrieval services, meet users' personalized retrieval needs, and perform automatic recommendation and intelligent analysis through technical means such as artificial intelligence. In addition, smart libraries provide many convenient and high-quality services for teachers and students through open resources and service interfaces, such as digital reading, online borrowing, academic exchanges, etc., while also promoting the sharing and utilization of digital resources. The smart library also uses big data technology to analyze and mine the reading behavior and needs of teachers and students, provide data support and guidance for subsequent service optimization, and present the data through data visualization tools, so that users can better understand

their reading status and preferences. In addition, smart libraries can provide personalized recommendation services based on users' historical records, reading interests, and other information, accurately recommending valuable reading resources for users, thereby improving user experience and satisfaction.[2]

## ***2.2 The Important Features and Functions of Smart Libraries***

A smart library is a digital library that digitizes paper books, allowing readers to access library resources anytime and anywhere through the internet.[3] In addition to traditional textual resources, smart libraries also provide multimedia resources such as audio, video, and images, meeting the diverse needs of readers. In addition, the smart library also provides services such as self-borrowing and returning books, booking seats, and checking books, making it convenient for readers to use. Smart libraries can recommend relevant resources and provide personalized services based on readers' reading habits and interests.[4] In addition, smart libraries are not limited by geography and can provide services to readers nationwide or even globally. The smart library utilizes data mining technology to collect and analyze reading behavior data, providing a reference basis for library knowledge management. At the same time, it adopts a sharing and cooperation model to promote resource sharing and cooperation between libraries, achieving optimal resource allocation. In short, smart libraries provide readers with more convenient, efficient, and comprehensive access to digital resources and services, and open new doors for cooperation and sharing among libraries.

## **3. The Current Situation and Problems of Reading Promotion in Universities**

### ***3.1 Policies and resource investment for promoting reading in universities***

At present, the country has given increasing attention and support to the promotion of reading in universities. Education departments in various regions have also successively introduced a series of reading promotion policies and measures to promote the creation of a reading atmosphere in universities and enhance students' reading ability and literacy. For example, the "China University Reading Promotion Project" jointly initiated by the Ministry of Education, National Library and other units aims to guide college students to gradually establish good reading habits and provide more high-quality reading resources; In addition, many universities also actively carry out reading activities, such as reading competitions, book sharing meetings, celebrity lectures, etc., providing students with a richer reading experience.[5]

However, in practical operation, the promotion of reading in universities still faces some problems. Some universities have problems with inadequate implementation of reading promotion policies and insufficient resource investment, resulting in unsatisfactory results in reading promotion.

### ***3.2 The current situation and problems of students' reading habits and interests***

Currently, with the development of information technology and the popularity of mobile devices, students are more inclined to obtain information and entertainment through the Internet, while the time spent reading paper books is relatively shorter. In addition, some students have problems with their reading habits, such as slow reading speed and lack of ability to summarize and summarize.

In addition, students' interest in reading also needs to be improved. In terms of reading choices, many students excessively pursue best-selling books and overlook other excellent cultural books. This has led to students' relatively narrow reading horizons, and their reading abilities and literacy have not been comprehensively improved.

### ***3.3 The challenges and difficulties faced by reading promotion in universities***

There are many challenges and difficulties in promoting reading in universities. Firstly, the promotion of reading in universities requires a significant investment of resources, including book procurement, venue leasing, personnel training, etc., which may become a major challenge for some universities with limited funding.

Secondly, the promotion of reading in universities needs to be combined with students' interests and hobbies. Students have more diverse and personalized needs, and how to meet the reading needs of different students is a difficulty in promoting reading in universities.

Finally, effective management and service mechanisms need to be established for reading promotion in universities. How to solve the problems of organization and coordination, personnel training, and reading data statistics in reading promotion activities is also an important difficulty.

#### **4. The Application of Smart Library in the Promotion of Reading in Universities**

##### ***4.1 The differences and connections between smart libraries and traditional libraries***

Smart library is a type of digital library, which has the following differences and connections compared to traditional libraries:

**Difference:** Smart libraries use digital technology to manage and serve readers, digitizing paper books, providing digital reading space and resources, and achieving functions such as self-service borrowing and returning, online query, etc; Traditional libraries mainly rely on paper books, with traditional counter services and manual registration for book borrowing and returning as their main service methods.

**Connection:** Both smart libraries and traditional libraries are institutions that provide readers with high-quality reading environments and resource services, with the goal of meeting their reading needs. Smart libraries can also draw on the reading promotion experience and concepts of traditional libraries, such as organizing reading sharing meetings and cultural activities, to promote the creation of a reading atmosphere and the cultivation of students' reading interests.

##### ***4.2 The application scenarios and effects of smart technology in reading promotion***

Smart technology has a wide range of application scenarios and significant effects in reading promotion. For example:

**Personalized recommendation:** Smart libraries can intelligently recommend relevant books and resources based on readers' reading interests and history. This can meet the diverse needs of readers and improve the effectiveness of reading promotion.

**Data analysis:** Smart libraries can conduct data analysis on readers' reading behavior, understand their reading preferences, borrowing situations, etc., and carry out more accurate reading promotion activities based on this.

**Digital reading experience:** Smart libraries provide various reading methods (such as e-books, audio books, video books, etc.) through digital technology, enriching readers' reading experience.

**Interactive reading promotion activities:** The smart library combines virtual reality, augmented reality and other technologies to carry out interactive reading promotion activities, such as "immersive reading" and "VR reading room", which have attracted the participation of many students.

##### ***4.3 The promoting role of smart libraries in promoting reading in universities***

Smart libraries play an important role in promoting reading in universities. Firstly, the smart library provides a brand new digital reading service that meets the needs of students to access high-quality resources anytime and anywhere, increasing the convenience of students' reading. Secondly, in terms of reading promotion, smart libraries implement personalized recommendations, data analysis and other service methods to more finely meet students' reading needs, thereby improving the effectiveness of reading promotion activities. Thirdly, the application of smart technology has injected new blood and vitality into the promotion of reading in universities, promoting innovation and development of reading promotion work. In short, smart libraries have played a positive role in promoting reading in universities through digital technology, reading promotion models, and student services, helping to cultivate students' good reading habits and improve reading literacy. At the same time, they have also promoted the healthy development of reading promotion work in universities.

In addition, smart libraries can also provide more convenient and efficient services for promoting reading in universities. For example, through digital technology, smart libraries can achieve self-service borrowing and returning, online query, and other functions, making it convenient for students to use. In addition, smart libraries can also provide a variety of reading and cultural activities, such as online lectures, reading sharing sessions, cultural salons, etc., expanding the form and content of reading promotion activities, and enhancing students' participation and satisfaction.

## **5. Discussion on Management Mechanism**

### ***5.1 The security management mechanism of smart libraries***

The security management mechanism of smart libraries is crucial. Smart libraries need to establish a comprehensive information security system, including measures such as data backup and recovery, security monitoring, and user identity verification, to ensure the security and reliability of digital reading environments and digital resources. Among them, for the security management of digital reading environments, technical measures such as physical security measures (such as access control, cameras, etc.) and network security measures (such as firewalls, intrusion detection, antivirus software, etc.) can be taken to ensure that the system is not affected by external attacks during operation. In addition, relevant management systems and operating procedures should be established, personnel training and awareness education should be strengthened, and the safety awareness and skill level of employees should be improved to ensure the safe operation of the system.

### ***5.2 Solution to data protection and privacy protection issues***

Smart libraries need to pay attention to data protection and privacy protection while providing digital reading services. To this end, the following measures can be taken: strengthen data classification and permission control, classify and control all data and resources in the library, and only legally authorized personnel have access; Establish a secure data backup and recovery mechanism, backup and archive important data to prevent data loss or damage; Adopting encryption technology for the transmission and storage of user data, improving the confidentiality and security of data; Clarify the content and scope of privacy protection, and take corresponding measures, such as establishing privacy policies and strengthening user identity verification, to protect the privacy and security of readers. These measures can help smart libraries improve data security and privacy protection levels, ensure the smooth operation of digital reading services, and also enhance readers' trust and satisfaction with smart libraries.

### ***5.3 Construction of talent cultivation and management mechanism***

The development of smart libraries requires professional talent support, so it is crucial to establish effective talent cultivation and management mechanisms. We can start from the following aspects: firstly, establish a comprehensive talent cultivation mechanism, including technical training, management training, professional literacy training, etc., to improve the comprehensive quality and ability level of employees; Secondly, actively introduce high-end talents, such as digital reading experts and information security experts, to provide strong support for the development of the library; At the same time, by establishing mechanisms such as salary incentives, career advancement, and role model recognition, we aim to motivate employees' enthusiasm and creativity, and enhance their loyalty and engagement in the library industry; Finally, strengthen team management, unify ideas, focus on collaboration, establish a healthy and positive work atmosphere and team culture, thereby achieving effective communication and collaboration among employees and jointly promoting the development of the library. These measures can not only help smart libraries attract and retain outstanding talents, but also improve the work efficiency and sense of responsibility of employees, promote the stable development of smart libraries, which has great practical significance for promoting the development of smart libraries.

## **6. Conclusion**

With the advent of the information age, smart libraries, as a new model of digital reading services, are gradually developing and improving. This article analyzes the important role of smart libraries in promoting reading in universities, explores issues such as security management, data protection, and privacy protection of smart libraries, and proposes corresponding solutions; At the same time, the construction of talent cultivation and management mechanisms for smart libraries was also discussed. I hope this article can provide useful reference and inspiration for the practice and development of smart libraries.

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