

# Layout of Information Resource Construction in the Library--The Library of Sichuan University as an Example

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**Abstract:** With the professional development of university library services, the reasonable information resource construction work becomes more important as the basis for the library to carry out relevant services. Sichuan University Library has eight million volumes, not only that, but also a large amount of film and television, CD-ROM materials, etc. The construction of information resources in university library not only can promote the interconnection of information resources in university library, but also can spread the cultural value of information resources and effectively improve the service level of university library. Then how to arrange these massive books reasonably has become an important issue nowadays. This paper will start from the theory of information resource construction related to the layout of information resources, combine the importance of information resource construction of university libraries, take Sichuan University Library as an example, and make an in-depth investigation on the layout and sharing level of information resource construction of libraries based on the theoretical knowledge of information resource construction.

**Keywords:** Information Resource Construction; Library; Information Resource Layout; Information Resource Sharing

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## 1. Construction and Layout of Library Information Resources

### 1.1 Principle of Information Resource Construction Layout

The layout of information resources is to divide a large number of resources of different nature, user classification groups, functions and uses in accordance with the disciplines, with a large number of types, rich and diverse languages and complex and extensive contents. Its basic requirements are ease of use, users, work, and sharing.

The two are connected and dependent on each other; the convenience of the user can make the work more convenient, and as for sharing, it is an important item that exists on the outside.

### 1.2 Methods of Information Resource Layout

How the library is laid out in the construction of information resources is crucial, and the construction of library information resources presents openness, initiative and diversity characteristics(Shao Meiyuan, 2022). These several methods of laying out information resources are briefly described below for subsequent content development.

#### 1.2.1 Unfolded horizontal layout

The actual information resource and the user's behavior, i.e., collection, lending, and management, are co-located on one plane. It is undeniable that although libraries built by universities or governments are now large functional complexes, some books have been kept for hundreds of years and cannot be checked out as public resources, but are preserved as cultural relics. Many reading rooms are now equipped with high-tech technologies such as magnetic strips, and leisure facilities such as cafes are not so little known in these reading rooms, so it can be said that the reading room medium is now a clean and leisure complex. In this popular framework, the unfolded horizontal layout can be used as you like, so that it is convenient for users to browse open shelves, such as the coffee corner of I.T.A. But there are still places where the economic layout is unreasonable.

## **1.2.2 High-rise vertical layout**

Wangjiang Literature and Science Library has a separate building, a heavy high-rise vertical bookstore, a form of book-pressing building, which can be understood by the literal meaning that the building manages information resources in a form of stacking layers, then it can be used as a high-rise vertical layout.

## **1.2.3 Stereo crossover hybrid layout**

Nowadays, most colleges and universities adopt this mixed crossover hybrid layout situation to manage books, for example, the whole library of Wangjiang Literature and Science Library of Sichuan University. He absorbed the advantages of both unfolded horizontal layout and high-rise vertical layout, discarded the disadvantages of both, and formed a three-dimensional crossover hybrid layout.

## **1.2.4 Closed frame system and open frame system layout**

Most of them are suitable for non-renewable literature resources, and some orphan books and important documents cannot be copied multiple times, which may cause paper brittleness and aging. The closed-shelf system layout method can maximize the inventory capacity, but does not allow users to enter the shelves, more convenient for staff to shelf and whole shelves in the library, to facilitate the inventory and repair work of books. Open-shelf system allows users to enter the library directly, convenient for users, can improve reading enthusiasm, improve the efficiency and quality of borrowing, but the disadvantages are also very obvious. Loss, damage, disorderly shelves can be seen everywhere, the collection of books loss significantly increased.

## **1.2.5 Three-line Dynamic Collection(Zhao Shan-shan, 2018)**

First of all, the first-line library, directly facing the library, the highest utilization rate, the most targeted, the user can reach out; second-line library is not high or low; third-line library user utilization rate is very low, can reduce the scope of activities. Most of the space in the library of Sichuan University is first-line and second-line stacks, which is sufficient to meet the users' borrowing activities of data and documents in the library. This layout will be described later.

## **1.2.6 Integrated layout of collection and circulation**

The layout mode of large open shelves and large space is mostly applicable to large data rooms, more applicable to the Chinese Academy of Sciences, Chengdu Research Center and other research libraries, the advantages of comprehensive and integrated also reflect the economic pressure behind its support, the construction costs are very high. Because the three collection and lending are in one plane, the users are "panda level", which can be said to be a big deal and a big pattern, but like Sichuan University and other libraries for a large number of student users, this kind of information resource construction layout is obviously inappropriate.

## **1.3 Overall Layout of Information Resource Construction**

The concept of the overall layout of information resources is as follows: in the region or scope, through inter-library cooperation and mutual coordination, the unified allocation of information resources, the whole country is spread out and integrated, constituting a harmonious information society, which should not be due to geographical differences and thus form the Matthew effect, but form a scientific organic whole with reasonable structure, convenient and effective, and economic.

The overall layout of information resources requires a large pattern and the ideal state of national unity. It is conducive to the use of coordination of information resources in various places; promote the sharing and common construction of information resources; can strengthen the cooperation, contact and exchange of various regions; reduce the duplication of complex information resource construction work; narrow the information divide. To be large and comprehensive, small and comprehensive, striving for comprehensive and overall. In today's technological development, we have somehow gotten into the bull's eye with uneven distribution of information differentiation, and this idealized overall layout helps to smooth out this difference between rich and poor information.

This layout is only used to apply the principle of adapting to national conditions, which may not be completely reasonable, but should be done according to the capacity under adapting to national conditions. Especially within the major

universities directly under the Ministry of Education, this layout of information resources adapted to the national conditions is more suitable.

The comprehensive library of Sichuan University is second to none in the whole southwest, so it should play a leading role in the principle of coordination and sharing, and achieve the awareness and sentiment of common utilization. But resources are all limited, so how to achieve the principle of demand-oriented universities, including Sichuan University, is crucial, and demand-oriented is especially necessary for the uneven distribution situation that is different from some regions where demand is low but the collection is large. As for the economic benefits, construction and service benefits, the library should be as large and optimized as possible, and the library of Sichuan University has its own unique considerations in terms of benefits according to local conditions. Therefore, how to achieve the maximum utilization of information resources, meet the needs of users, and focus on the potential intangible benefits is still an area of improvement for the Sichuan University Library.

## **1.4 Three Theoretical Layout Models of Information Resource Construction(Fu Juying, 2019; Hua Dongjie, 2015)**

Three theoretical models exist for the layout of information resources: the centralized controlled model, the decentralized controlled model, and the hierarchical controlled model. The second decentralized controlled model is common in the United States, where a number of decentralized libraries and information service institutions share the task of building a large number of information resources. China, on the other hand, intentionally adopts the hierarchical control model, a three-tier information resource assurance system as a whole. The first level: the national information resources guarantee system (Beijing and other medium and major cities, the national grand unification) → the second level: regional information resources guarantee system (North China, South China, etc. by region, administrative regions) → the third level: provincial, municipal and autonomous regions information resources guarantee system (thirty-two of the provinces, cities and autonomous regions). These security system to ensure that the resources of the sector-owned, regional ownership of resources, to achieve the common sharing of resources across regions.

China Higher Education Literature Assurance System CASHL is a library system adapted to colleges and universities, which will be used for an educational assurance system centered on China's higher education digital libraries with modern library concepts and advanced means as the theory in a nutshell. And Sichuan University Library, as the second level under this model, assists the national center to carry out resource and overall planning, information resource construction and information resource service work, with Sichuan University's own region and our university as the focus of work to carry out training, publicity, literature retrieval and original language provision and other services, and fully cooperate with the national do the assessment of services provided by universities.

## **2. Information Resource Construction of Sichuan University Library**

As mentioned above, Sichuan University Library has adopted a partial three-line dynamic collection information resource layout, so the construction and layout of information resources of Sichuan University will be discussed in detail later.

### **2.1 Overview of Sichuan University Library**

In the midst of continuous educational development, as of 2014, the paper edition of books printed by 985 and 211 universities has reached 179 million copies, and as you can imagine, by this year this number has climbed to staggering heights. Nowadays, Sichuan University Library has become the library with a long history and the largest collection of literature in the whole southwest region. Sichuan University Library is composed of Arts and Science Library, Medical Library, Jiang'an Library and Engineering Library together, and its collection covers a variety of disciplines such as literature, science, engineering, economics, management, medicine, law, philosophy, teaching, agriculture and arts, with a total of 8.17 million volumes of paper literature resources, 312 electronic literature databases, and audio and video up to 19h. Not only that, Sichuan University Library, as named by the State Council One of the "National Key Protection Units of Ancient

Books", its collection of precious ancient literature totals 268,000 volumes, and these precious documents include not only a large number of Song and Yuan engraved books, but even manuscripts from the Tang Dynasty, plus a large number of Chinese and foreign intelligence periodicals since the founding of China, many of which are from the anti-Japanese war period. Therefore, how to manage these vast, sweaty literature is the biggest problem, to achieve a reasonable distribution of the literature, how to set up a lending mechanism, how to meet a variety of users of a variety of services ..... This has to be said, is an important issue in the construction of information resources. Therefore, how to build and manage the huge amount of information resources in Sichuan University Library requires the help of reasonable management methods, as mentioned in the previous article, Sichuan University Library has adopted a three-line canonical literature layout in some of its libraries, which will be described in detail later on this basis.

## 2.2 Information Resources Construction of Sichuan University Library

Sichuan University Library consists of 16,000 square meters of Arts and Science Library, 13,000 square meters of Engineering Library, 8,800 square meters of Medical Library and 25,300 Jiang'an Library. Each library's main collection of literature is different and has its own focus, and these resources are categorized and laid out in each library in a focused manner to achieve a reasonable construction of information resources. In the library development history of Sichuan University, the library collection literature and resources are laid out according to the coverage and saving rate of teachers, students and users reading, and the library literature resources are divided into three levels according to the utilization rate in the information resource construction, which are one, two and three lines of library, i.e. three lines of canonical collection. However, the traditional layout of the three-line collection system can no longer meet the development layout of library information resource construction in this era, and must be innovated and flexibly used on this basis. The library of Sichuan University upholds the integrated management of "collection, borrowing, reading and consulting" and other services, which is not only the simple library information resource construction layout, but also the technology and services provided to optimize the service and information resource sharing.

In terms of information resource services, Sichuan University Library has opened several functional service windows, such as the Muxin Hut bathed in music, a large seminar room for many people, etc. In addition, Sichuan University Library's online services have been customized to share information resources as much as possible.

It is easy to see from the above that the information resource construction of Sichuan University Library has achieved wisdom and individual service, reasonable information resource layout and structural optimization of information resource construction, and information resource sharing as the ultimate goal of Sichuan University Library's development. The construction of library information resources has an important role in promoting the interconnection of university library information resources and spreading the cultural value of information resources(Sai Like, 2021). In this development process, Sichuan University Library has put the integration of resources and people in the first place, built an information resource system that is second to none in the southwest, and achieved a complete information resource construction.

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