

How to Adapt Library Collection and Cataloguing Work to the Requirements of the Big Data Age

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Abstract: This paper mainly studies and discusses the changes of library acquisition and cataloguing work in the era of big data, and puts forward effective optimization measures in view of its current changes. Library acquisition and cataloguing personnel must innovate acquisition and cataloguing ideas, optimize acquisition and cataloguing mode, implement scientific and standardized management, integrate information technology, and achieve double improvement of acquisition and cataloguing work quality and time, optimizing the process of acquisition and cataloguing and improving the actual effect of acquisition and cataloguing in order to better enhance the social and cultural influence of the library.

1. Introduction

In the information age, the network has changed people's way of production and life. The data storm caused by the development of the network has penetrated into all walks of life. The cloud computing technology has also brought about the data and informationization of industrial development. Big data has become an inevitable trend of development.

As an important place of social and cultural construction, libraries can achieve their own stable development in the tide of big data only if they do a good job in the effective mining of information, focus on the innovation of Library Acquisition and cataloguing, keep pace with the times, and change the process and content of acquisition and cataloguing.

2. New Changes in Library Acquisition and Cataloguing in the Big Data Era

2.1 Data Collection and Cataloguing Objects

Acquisition and cataloguing work, as the basis for the smooth development and operation of the library, plays a decisive role in the construction and development of the library. Therefore, the library must attach great importance to it ideologically and take the acquisition and cataloguing work seriously. With the continuous development of modern science and technology and network communication technology, library acquisition and cataloguing work is facing many problems and challenges in the actual operation process. Traditional libraries mostly collect and edit paper literature resources, and a small number of audio-visual resources and video miniaturization resources. The structure of traditional collection and editing objects is relatively simple and the organization is simple. In the era of big data, the amount of information has increased dramatically, and the types of information resources have changed dramatically. They are no longer limited to paper literature resources, but are constantly integrated into electronic literature resources, audio-visual products, machine-readable documents, data resources and network literature. With the increase of the types of documents, the forms of document dissemination are also more diverse. The diversification of the types of documents and the tendency of data increase the difficulty and pressure of the acquisition and cataloguing work, which is a great challenge faced by the library. Therefore, libraries must change their ideas and methods of acquisition and editing, focusing on data resources organization and acquisition and editing to meet readers' E-reading needs.

2.2 Networking of Acquisition and Cataloguing

In the information age, the way of acquisition and cataloguing of libraries must follow the road of informatization and networking. Therefore, the networking of acquisition and cataloguing has become an innovative manifestation of Library Acquisition and cataloguing work in the era of big data. Big data itself has the advantages of large amount and fast updating. Library literature information resources can be more abundant, information dissemination is fast, and information updating is fast. Therefore, if the library still follows the traditional on-site acquisition or mailing mode, it will greatly reduce the timeliness. The rapid development of information technology has provided technical support for library automation integrated management. The variety of book acquisition has expanded and the quality of purchasing has improved significantly. All of these benefits from the networked processing of acquisition and cataloguing mode. Based on the era environment of big data, libraries have realized online access to bibliographies and integrated system network acquisition. The acquisition and cataloguing process is simpler, and the networking of acquisition and cataloguing mode is inevitable.

2.3 Expanding the scope of acquisition and Cataloguing

In the era of big data, the scale and scope of Library Acquisition and cataloguing have been significantly expanded, which is also a new change of Library Acquisition and cataloguing work in the era of big data. The scale of library data has been improved from TB level to PB level. The types of data are more abundant and diverse. The rapid increase of information means that the acquisition and editing personnel need to spend more energy on data evaluation. Relevant statistical data show that as of 2013, unstructured data accounted for 85% of the total data in China. Unstructured data has become an important part of information resources, while traditional library acquisition and cataloguing work attaches importance to structured data, ignores unstructured data, and lacks corresponding theoretical and practical support.

Faced with the huge amount of data, libraries must balance structured data and unstructured data in order to accurately do a good job in the statistics and integration of various data information, so as to realize the full play of the value of large data in the acquisition and cataloguing of libraries.

2.4 The urgent need for information optimization

If the traditional library acquisition and cataloguing work relies on unified document description standards and catalogue formats, and can not adapt to the information organization of unstructured data in the era of big data, then, in essence, the information organization of big data has no reference significance, because it pays more attention to the description and mining of information characteristics, classification and sorting. The impact of large data on data structure is mainly to achieve ordered and high-quality processing of a large number of unstructured data, which improves the value of information utilization. Users tend to get information-based data and valuable data support. They also hope that the acquisition and cataloguing of libraries can meet their own information preferences. Customer personalized service is the most urgent need. Therefore, in the era of big data, libraries must do a good job in optimizing the organization of acquisition and cataloguing information.

2.5 The operation of acquisition and cataloguing is more complicated.

Due to the change of acquisition and cataloguing mode, content and process, the acquisition and cataloguing work of libraries is facing greater challenges in the era of big data. The operational process of acquisition and cataloguing work will be more complex, and the functions of acquisition and cataloguing work will also change significantly. Under the traditional acquisition and cataloguing mode, the main work responsibility of the acquisition and cataloguing staff is to carry out book acquisition and cataloguing. The basic process is book cataloguing, bookmark addition, book collection and bookshelf arrangement. The whole process links up with each other and takes a long time. Under the big data environment, information technology has brought about the high efficiency of book cataloguing processing, but the increase of cataloguing content and the

development of online cataloguing also make it possible to apply cataloguing data. The working functions of cataloguing staff are more diverse. They are not only responsible for the cataloguing data processing of booksellers, but also for the selection and processing of digital resources and network resources. A single cataloguing worker should also undertake the work of information organization.

3. Development Countermeasure of Library Acquisition and Cataloguing under Two Big Data Environments

3.1 Optimizing Editing Objects Based on Reader's Needs

In the era of big data, readers'needs are more individualized and diversified. In order to satisfy the individualized and diversified needs of readers and optimize the service experience of readers'libraries, the acquisition and cataloguing work of libraries must change their concepts and pay close attention to and grasp the needs of readers. At present, the reader's information needs are more urgent, and the personalized needs are more prominent. Editors should further clarify the reader's reading demands, obtain user's statistical data in time, innovate the mode of acquisition and editing, focusing on the collation and processing of information resources. Editors should understand users'information trends and hotspots, make statistical analysis according to readers' information characteristics, and combine with library collections.

To formulate the target of collecting resources in a certain period and adjust the collection structure appropriately. Big data may have errors in reflecting users'information needs, but it has shown the validity of user representation in most commercial areas. Libraries can use digital libraries or mobile libraries to build interactive communication platform between readers and managers, and timely get feedback from users' needs, so as to achieve efficient matching between acquisition and editing services and readers'needs with users as the core.

3.2 Optimizing the Workflow of Library Acquisition and Cataloguing

The automation and manual separation of the acquisition and cataloguing process in traditional libraries results in repeated labor and waste of resources. In the big data environment, library acquisition and cataloguing work pays more attention to the coordination and cooperation of various departments, and combines acquisition and cataloguing, so as to realize the optimization of Library Acquisition and cataloguing process. On the one hand, libraries should do a good job in the correlation analysis of various information resources, and make internal connections for different types of cataloguing resources, effectively avoiding the embarrassment of different types of resources; on the other hand, libraries should do a good job in the rational layout of the acquisition and cataloguing work sites, and make efficient use of the spatial layout. On this basis, the library should reorganize and optimize the traditional acquisition and cataloguing process, separate and add new processing, realize the optimization of each working process, and effectively enhance the effectiveness of the acquisition and cataloguing work of the library.

3.3 Establishing an Effective Mechanism for Collecting and Compiling Large Data

In the era of big data, libraries must clarify and optimize the process of acquisition and Cataloguing Management with the help of sound and perfect mechanism, incorporate acquisition and cataloguing into effective data acquisition, integrate library acquisition and cataloguing with data access, data analysis and data service, and realize the integration of large data processing cycle. The target demand body of management mechanism is users. The unified big data management process can realize the exchange and cooperation of collections in the region, achieve the high consistency between the acquisition and cataloguing of libraries and the strategic deployment of national information integration, and achieve the precision of services by means of the large platform of acquisition and Cataloguing in the era of big data. In the new era, the transformation of acquisition and cataloguing work is more urgent. The acquisition and cataloguing work of libraries has shifted from business-oriented work to management-oriented work. The acquisition and

cataloguing work has become a part of the acquisition and Cataloguing Service and is more open and shared. Strengthening the construction of system and changing the passive position of Libraries in big data acquisition and cataloguing can make the advantages of Libraries in document management more obvious and the acquisition and cataloguing management more efficient.

3.4 Improve the Innovation of Information Technology in Acquisition and Cataloguing

At present, the level and ability of acquisition and cataloguing of Libraries in China are generally low, so libraries must speed up the information construction of acquisition and cataloguing. The introduction of information technology can highlight the core of big data acquisition and cataloguing process. Only by innovating information technology can library acquisition and cataloguing work keep pace with the times and realize deep analysis and mining of information with the help of information technology. The innovative use of information technology in Library Acquisition and cataloguing can improve the quality and efficiency of acquisition and cataloguing, drive the innovation of acquisition and cataloguing methods, and more in line with the background of big data era.

3.5 Promoting the Comprehensive Quality of Library Acquisition and Cataloguing Staff

Under the big data environment, the operation process of Library Acquisition and cataloguing is more complex, and the functions of acquisition and cataloguing personnel are more diverse. Therefore, it is urgent to improve the comprehensive quality of acquisition and cataloguing personnel. In addition to mastering professional acquisition and editing knowledge, acquisition and editing personnel should keep pace with the times, improve the ability of information technology processing and information evaluation through training and learning, and do a good job in the construction of Library Acquisition and editing information. The acquisition and editing personnel should also learn the acquisition and editing skills through professional training and education. The contents of training and education should not only include the basic contents of Library science, but also involve computer technology, big data analysis technology, big data processing technology and big data integration technology. With the development of the times, cultural exchanges are becoming more and more frequent in the world. It is very important for editors to sort out some foreign books. The editors must strengthen their foreign language learning, improve their reading and expression abilities, and integrate foreign language information resources in a timely manner. Acquisitioners and editors must have a sense of social activities, consciously participate in various social activities, sum up practical experience in social activities, improve their own literacy, strengthen exchanges with booksellers and database merchants, and do a good job in Library Acquisition and editing.

4. Conclusion

The acquisition and cataloguing work is the most basic work of the library, and it is also an important part of the library construction and development. In the new era, the characteristics of big data are becoming more and more obvious. Therefore, library acquisition and cataloguing personnel must innovate the concept of acquisition and cataloguing, optimize the acquisition and cataloguing mode, implement scientific and standardized management, integrate information technology, and achieve double improvement of the quality and efficiency of acquisition and cataloguing work.

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