**Protection Practice and Intelligent Exploration of Rare Collections in Sun Yat-sen University Library**

Rina Su，Wang Lei，Xueyu，Zhang Qi

Sun Yat-sen University Library, as one of the first “National key Protection Unit for Rare Collections” in China, has made a series of important achievements a series of important results in the fields of rare collections restoration and conservation, collation and research, digitization, and dissemination and promotion. Sun Yat-sen University Library has been adhering to the policy of "conservation-oriented, salvage first, rational use and management", based on the census and registration, focusing on graded conservation and revealing use, insisting on the organic combination of native and regenerative conservation, preventive conservation and salvage restoration, continuously improving the level of rare collections conservation, effectively playing an important role in the transmission of Chinese excellent traditional culture.

At the same time, the era of digital intelligence has put forward higher requirements for the protection, utilization and transmission of ancient resources and excellent traditional culture, so how to make comprehensive use of all kinds of intelligent technology and means, so that the protection, display, transmission, dissemination, creative transformation and innovative development of ancient resources and other aspects of the deep integration of digital intelligence technology, is a further exploration and deepening of the library in ancient collection conservation work. This study focuses on the following four perspectives to explore：（1）National Strategy & Planning for Rare Collections Work in the New Era（2）Development & Limitation of Rare Collections Preservation Theory & Practice（3）Connotation & Characteristics of the Smart Conservation System of Rare Collections（4）Intelligent Preservation System of Rare Collections : oriented to the development of the whole systems of rare collections preservation.

Rina Su,librarian, Special Collections Department ,Sun Yat-sen University

Wang Lei, Deputy Library Director ,Sun Yat-sen University

Xueyu, librarian, Special Collections Department ,Sun Yat-sen University

Zhang Qi, Director of the Special Collections Department, Sun Yat-sen University