Xie Jing, male, graduated from Beijing University of Posts and Telecommunications in 2009 with a master's degree, and joined the National Science Library, Chinese Academy of Sciences. He was visiting scholar at Data Science Institute of Imperial College London in 2016. He is currently the deputy director of the Information System and Knowledge Computing Center of the National Science Library, Chinese Academy of Sciences, and he is the supervisor in information science. He has undertaken the research work of the Ministry of Science and Technology, the Chinese Academy of Sciences, the National Science Library, and has published more than 20 academic papers. The ongoing research about "the construction of scientific research knowledge map", "knowledge discovery of big data", "visualization of big data" and "accurate information service based on academic portraits" have achieved expected results, and a methodological system of knowledge discovery, knowledge map and multi-dimensional index have been formed. At present, he takes charge of the breakthrough projects of "One Three Five", "the construction of distributed large data knowledge discovery service platform" and "the construction of user academic portrait system" based on user behavior of NSTL.

The main research directions are large data technology and intelligent information processing. Under the environment of big data and artificial intelligence, with the rapid development of network information technology, such as cloud computing, Semantic Web, machine learning and intelligent computing, a large number of big data are generated in the whole process of scientific research activities, such as scientific research subject, research process, scientific research events, project data and scientific research achievements. And under the background of rapid growth and sustained outbreak of literature data represented by network science and technology information, science and technology activity information and scientific research papers, how to use the theory and method system of big data technology to realize the distributed storage of literature and information data, how to combine knowledge computing with today's open machine learning technology to create effective learning models and tools and discover data anomalies, recognize of data characteristics and realize automatic recognition of knowledge, learning knowledge and understanding knowledge play an important supporting role in scientific and technological innovation, the direction of industry economic development, and index analysis and prediction. It is of great practical significance to construct a new data-intensive scientific research method in the future, which is oriented to the practice and application of knowledge services, information decision-making research, industrial technology analysis and prediction, by using high-performance intelligent computing environment, knowledge visualization technology, the accumulation of large data knowledge atlas in the National Science Library and some other technologies. Under the environment of big data and machine learning in the National Science Library, the research direction undertakes the important mission of the core engine of scientific research decision-making, industrial economic development and major scientific and technological innovation. It devotes itself to the collection and analysis of big data, the research of intelligent information processing technology, the intelligent analysis and solution construction of scientific and technological data, and to build a new and intelligent knowledge application service platform based on Internet development thinking.

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