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A Big Data Knowledge Computing Platform for Intelligence Studies

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ABSTRACT

Intelligence studies is a method of using modern information technology and soft science research methods to form valuable information products by collecting, selecting, evaluating and synthesizing information resources. With the advent of the era of big data, the core work of information analysis with data is facing enormous opportunities and challenges. How to make good use of big data in an effort to solve the problem of big data, optimize and improve the traditional intelligence studies methods and tools, innovation and research based on big data are the key issues that need to be studied and solved in current intelligence studies work.

The data management module is used to store and manage the relevant data of intelligence studies, which consists of four parts: metadata management, data connection, data integration and data management. The platform supports the import and management of multi-source heterogeneous data, including papers, patents from ISI, PubMed, etc., and also supports the data import with API of MySQL, Hive and other database systems. The platform has more than 20 kinds of data cleaning and updating rules, such as search and replace, regular cleaning, null filling, etc., and also supports users to customize and edit the cleaning rules.

The data calculation module is used to store and manage the big data analysis algorithm and intelligence analysis process, and provides a user-friendly GUI for users to create customized intelligence analysis process, and the packaged process can be submitted to the platform for calculation and obtain the calculation results of each step. In the system, a task is formulated as a directed acyclic graph (DAG) in which the source data flows into the root nodes. Each node makes operations on the data, generates new data, and sends the Intelligence studies is a method of using modern information technology and soft science research methods to form valuable information products by collecting, selecting, evaluating and synthesizing information resources. With the advent of the era of big data, the core work of information analysis with data is facing enormous opportunities and challenges. How to make good use of big data in an effort to solve the problem of big data, optimize and improve the traditional intelligence studies methods and tools, innovation and research based on big data are the key issues that need to be studied and solved in current intelligence studies work.

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Biography:

Wen Yi, professor of Chengdu Library and Information Center, Chinese Academy of Sciences, holds a Master's degree in Information Science from Sichuan University. He specialized in big data analysis and knowledge discovery information system and has published more than 30 papers about these fields. He is the head of the project—"the construction of Intellectual Property Network of CAS" and several other projects. His research has gained the "Sichuan Province Science and Technology Progress Third Award"