ABSTRACT

Nowadays most search strategies of Online Access Public Catalog (OPAC) use string patterns of a query term rather than the meaning of a query term. The system not only meets the string patterns but also the actual meaning of a query term. The system uses a New Classification Schema for Chinese Libraries (CCL) and Dewey Decimal Classification (DDC) as ontology. Ontology defines the detail data of each class in the hierarchy of (DDC) or (CCL) and describes relationship between the classes. It combines inference engine with (CCL) or (DDC) to search out book information are similar to semantics of query term. The content of a book crosses multiple domains or subjects, the system assigns the secondary class number to it. According to the user's query term, the system searches the book information to match the meaning of user's query terms. It helps users get book information as they except, especially the books contain cross-domains or multiple subjects.

Keywords : ontology 、Online Access Public Catalog 、New classification Schema For Chinese Libraries、Dewey Decimal Classification