元数据与知识本体

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文　摘　本文简要分析了知识本体对于数字图书馆的作用，论述了知识本体概念的来历 、含义和目前的研究与应用进展，以及知识本体与传统的图书分类法和叙词表的关系，着重 阐述了知识本体对于元数据方案所起到的补充和高层互操作的作用，以及建立知识本体的一 般流程和方法。

关键字　元数据 知识本体 数字图书馆

Ontology-based Metadata Application for Digital Libraries

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Abstract: An ontology is a formal specification of a conceptualization, usually related to a specific domain of knowledge like library and information science. The metadata application profile along with the documentation of its abstract mo del can be thought of a primitive ontology of a specific implementation. Classif ication themes and thesaurus, which have been used for a long time in the librar y and information arena, are also a source of formal ontologies. After formaliza tion processing and encoded with standard ontology languages, these kinds of con cept systems can be very useful to establish a metadata service based on ontolog y services and fulfill the high level interoperability of digital libraries.

Keywords: