



智能化IETM中的知识演化模式研究

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- 摘要
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摘要 根据IETM的应用现状和CSDB的特点,提出智能化IETM系统构建策略,即在CSDB实例数据重用的基础上,通过定义DM实例与本体实体之间的映射关系构建系统本体库。同时为保证智能化IETM信息检索的准确性和及时性,重点对其知识演化问题进行研究,设计本体库演化与实例库演化并行处理的知识演化模式,并详细介绍这两部分演化活动的主要处理过程和功能模块。最后,以DM实例的添加为例,演示该知识演化模式在保证系统知识演化一致性上所采取的交互与处理活动。

关键词: 本体 智能化IETM 知识演化模式

Abstract: According to IETM's application and the characteristics of the CSDB, this paper proposes a system building strategy that defines the mapping relationship between Ontology entities and DM instances to build the Ontology base with reusing the instance data in the CSDB. It focuses on the study of its knowledge evolution simultaneously in order to ensure the accuracy and timeliness of the information retrieval in intelligent IETM. Then, it designs the intelligent IETM's knowledge evolution model, in which the evolution of the Ontology base and instance base are resolved concurrently, and describes the processing procedures and the main functions of their evolution activities in detail. Finally, it illustrates the interactions between the evolution of both Ontology base and the instance base by adding a DM instance into the CSDB.

Keywords: [Ontology](#), [Intelligent](#), [IETM](#), [Knowledge evolution model](#)**收稿日期:** 2011-11-07;**基金资助:**

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