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基于经验反馈模型的模具企业知识获取框架

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摘要：

针对模具企业知识集成过程中出现的经验知识提取困难等问题，提出了基于经验反馈模型的知识获取框架。研究了面向模具生命周期的知识获取方法，实现了基于本体的知识提取和表达，采用概念图对经验进行可视化建模，并使用Web本体语言（Web Ontology Language，OWL）对知识进行统一的描述与存储。阐述了该框架的结构与运行原理，并在此基础上实现了基于面向服务架构的模具企业集成平台知识获取服务。该框架满足模具企业设计制造经验性强等特点，采用符合业务流程的知识获取过程和可视化经验表达方法，降低了知识获取的难度和成本。

关键词： 模具企业　经验反馈　知识获取　本体　概念图　Web本体语言　面向服务架构　die and mold enterprise　experience feedback　knowledge acquisition　ontology　conceptual graph　Web Ontology language　Service Oriented Architecture （SOA）

Knowledge acquisition framework based on experience feedback model for die and mold enterprise

Abstract:

Concerning the difficulties of experience knowledge acquisition during knowledge integration process of die and mold enterprises，a knowledge acquisition framework based on experience feedback model was proposed．First，the knowledge acquisition method based on mold product lifecycle was studied and the Ontology-based knowledge extraction and representation were realized，conceptual graph was adopted to construct visual modeling and Web Ontology Language（OWL）was used to describe and store knowledge in a uniform way．Then，the structure and the runtime principle were stated．Finally，the knowledge acquisition services of mold enterprise integration platform based on service-oriented architecture were implemented．As the proposed framework satisfies the experience characteristics and adopts streamlining knowledge acquisition process and visualization representation methods，the difficulties and the costs are reduced．

Keywords:

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参考文献：

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