

协同设计中的知识流控制技术

王生发 顾新建 张太华 郭剑锋 潘敏

五邑大学

关键词: 知识流 workflow 协同设计 资源空间模型

摘要: 分析了知识流与协同设计任务的关系, 为了对协同设计中的知识流进行控制, 将资源空间模型引入知识流中的知识描述, 给出了资源空间模型中知识的矩阵表示方法, 从而便于对知识流的内容进行控制和操作, 通过 workflow 驱动协同设计, 将知识流与 workflow 进行集成, 提出了知识流与 workflow 的集成控制面板, 给出了知识流与 workflow 的集成控制算法, 最后开发了一个支持协同设计的知识流控制原型系统, 实现了协同设计中的知识流控制。The relationship between knowledge-flow and task of collaborative design was analyzed. In order to control knowledge-flow in collaborative design, a resource space model was used to depict knowledge and a method to depict knowledge through matrix was presented in the resource space model, which could control and manage the contents of knowledge-flow conveniently. Collaborative design was driven by workflow. Through integration between knowledge-flow and workflow, an integrated control panel was presented and two integrated control algorithms for knowledge-flow and workflow were given. Finally, a prototype system was developed to assist to control knowledge-flow in collaborative design and the control of knowledge-flow in collaborative was realized.

[查看全文 \(请使用Adobe Acrobat 6.0版本浏览\)](#) [返回首页](#) [引用本文](#)