



计算机集成制造系统 » 2015, Vol. 21 » Issue (第1期): 226-234 DOI: 10.13196/j.cims.2015.01.025

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建材装备制造企业数字化管理平台设计与实现

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Design and implementation of digitization management platform for manufacturing enterprises of building material equipment

摘要 图/表 参考文献 相关文章 (15)

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摘要 针对建材装备制造企业产品制造过程中的信息化管理问题,在分析企业制造过程信息业务流程的基础上,构建了基于制作流、物料流和资金流的信息化管理三大主线,提出项目主导下的多层次视图进度监控模型和基于内控指标的资金流多级预警模型,并针对数字化管理平台下多主体制造过程的信息协同,给出了基于数据传输中间件的数据集成和基于权限与重构的流程重组等关键技术和实现方法。开发了针对建材装备制造企业的数字化管理平台并进行了工程应用,验证了方法的可行性。

关键词 : 建材装备制造企业, 制造过程, 数字化管理平台, 数据集成, 流程重组

Abstract : Aiming at the manufacturing process information management problems in manufacturing enterprises of building material equipment, the three main flows of production, material and fund were built by analyzing the manufacturing process information management. Moreover, multi-level view model of process monitoring and multi-level prediction model of cash flow with project-based were also proposed. The key technologies and implementation methods such as data integration based on data transfer middleware and process reengineering based on system privileges and reconstructions were proposed for information collaborative of multi-agent manufacturing process. The digitization management platform was developed and applied to validate the feasibility of proposed method.

Key words : manufacturing enterprises of building material equipment manufacturing process digitization management platform data integration process reengineering

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ZTFLH: TP391.9

基金资助: 国家自然科学基金资助项目(71171154); 中央高校基本科研业务费资助项目(2013-YB-021)。

引用本文:

郭顺生, 杜百岗⁺, 孙利波, 李益兵, 郭钧. 建材装备制造企业数字化管理平台设计与实现[J]. 计算机集成制造系统, 2015, 21(第1期): 226-234.

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