

عنوان مقاله:

Verify the reliability of production planning systems and identify deviations between program

محل انتشار:

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خلاصه مقاله:

The high dynamics of markets are only one reason for the increasing complexity of production planning and control. To handle this complexity manufacturing companies have implemented IT systems to support decision-making in detailed scheduling processes. However, applied IT systems often do not provide a reliable forecast of delivery dates, because the planning models are implemented uniquely and have never been adapted due to changes in the production system. This paper presents an approach to verify the forecast reliability of detailed planning systems by identifying deviations between the predicted production schedule, determined by the IT system, and the observed production processes in reality. The paper introduces the reasons for deviations and explains how they can be determined. The approach represents how categorical and continuous verification methods can be applied to identify the described deviations. Depending on the determined deviation the forecast quality index of detailed planning systems is developed. Besides the assessment of the forecast quality the reasons for deviations are of interest to production planners. Identified reasons are the starting point for adaptations in planning models to enable a reliable forecast of re-configurable production planning systems in the future

کلمات کلیدی:

production planning, production control, changeability, re-configuration

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