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扩展高级判断Petri网及其在FMS决策和控制中的应用

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EXTENDED HIGH LEVEL EVALUATION PETRI NETS AND THEIR APPLICATION TO FMS DECISION AND CONTROL

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摘要

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摘要 提出一种新的更适合FMS (Flexible Manufacturing Systems 柔性制造系统) 决策和控制的扩展高级判断Petri网 (EHLEP-N), 并着重介绍它的建模方法及其在FMS决策和控制中的应用。建立基于EHLEP-N的FMS决策控制专家系统的实践证明, EHLEP-N是描述FMS的结构、状态和动态行为的有力建模工具。部分成果已经用于航空航天部159厂的高级DNC系统的设计之中。

关键词: 皮特里网 决策 专家系统

Abstract: A new Extended High Level Evaluation Petri Net (EHLEP-N) is proposed which is more suitable for FMS (Flexible Manufacturing Systems) decision and control, and emphasis is placed on introducing its modelling methods and its application to FMS decision and control. The practice of building up the EHLEP-N-based expert system for FMS decision and control shows that the EHLEP-N is a powerful tool for describing structures, states and dynamic activities of FMS. Partial results have been applied to designing the advanced direct numerical control (DNC) system in the 159th Factory of the Ministry of Aeronautics and Astronautics Industry.

Keywords: Petri nets decision making expert systems

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