短文

部分同步离散事件系统的分散监控

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摘要
本文研究一类部分同步离散事件系统分散监控与集中监控等价的条件, 得到按控制指标自然分解的分散监控实现方式, 由此提出了整体、局部目标最优实现一致性问题, 并讨论了分散监控闭合回路的两种控制作用机理. 最后给出了一种辅助分散监控的协调方案.
关键词 离散事件系统 分散监控 自动机组合 形式语言 协调
分类号

Decentralized Supervisory Control of Discrete Event Systems with Partial Synchronization

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Abstract
In this paper, the equivalent conditions between decentralized and centralized supervisory control of discrete event system with partial synchronization are studied, then the decentralized supervisory .control can be realized according to natural separation of control specification. Moreover, the consistency of optimal realization between global and local goal is proposed, and two kinds of control functions for the closed-loop of decentralized supervisory control are also discussed. Finally, a coordination scheme is presented.
Key words Discrete event systems decentralized supervisory control composition of automata formal language coordination

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