

论文与报告

链预估器及其应用

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摘要

本文基于链系统给出一种结构分散型预估算法. 设计子预估器需要的结构信息仅为相应子系统的模型, 而不必考虑其它子系统的结构信息. 构成子预估器的测量信息也是分散化的, 除含该子系统的输入和输出外, 仅含与它直接关联的测量信息. 文中提出了即时预估和超时预估的概念, 研究了有关的性质. 最后讨论了链预估器在过程控制中的一个应用实例.

关键词 [预估](#) [链系统](#) [结构分散化](#)

分类号

A Predictor for Chain Systems and its Application

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Abstract

A structural decentralized predictor for the chain system is presented. The only structural information required in the design of a sub-predictor is the model of the related subsystem, without taking into account of the structural information of other subsystems. The measured information in the sub-predictor is also decentralized. In addition to the input and output of the subsystem, it contains only the directly connected measures. The concepts of on-time prediction and super-time prediction are introduced, and some of their properties are studied. Finally, its application to a process control is discussed.

Key words [Prediction](#) [chain system](#) [structural decentralization](#)

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