

MODEL-BASED CONTROL SYNTHESIS FOR DISCRETE EVENT SYSTEMS

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ABSTRACT

In control engineering models of the controlled systems are the basis for controller synthesis as well as for analytical or simulative examination of open or closed-loop behaviour. This model-based methodology is being transferred into automation engineering by means of a development environment for the programming of logical controllers. Petri net models of the controlled system allow an automatic computation of the control algorithm. The control algorithms which are equally represented as Petri nets are then automatically translated into code for programmable logic controllers (PLC's).

Keywords Petri nets, Modelling, Synthesis, Code Generation, PLC.

1. INTRODUCTION

The aim of modelling in automation engineering is to describe a process with a formal language, which allows us to generate control algorithms and to simulate, analyse and verify the controlled system by exploiting the structural and dynamic properties of the description language. In the literature several special classes of Petri nets, various kinds of condition/event systems, temporal logic, boolean differential calculus or some combinations of these are employed. For a selection see [3], [4], [5] and [7]. In this context Petri nets have many advantages over other description languages. Indeed the graphic notation of Petri nets allows an easy and intuitive modelling of systems. Petri net models are generally more compact and more powerful. The algebraic foundation of Petri nets facilitates efficient analysis and synthesis, for which a large number of tools exists.

In this section we present an overview of the different control synthesis methods described in the literature focusing on an efficient method, the model-based control synthesis with Petri net models. The most discussed methods use special classes of Petri nets, such as controlled Petri nets and labelled nets.

The main design approaches for the control of discrete event systems using Petri nets are [2]:

- *controlled behaviour approach,*
- *logic controller approach and*
- *control theoretic approach.*

In the controlled behaviour approach the model describes the behaviour of the plant and the controller joined together. For the implementation the control algorithm has to be extracted from the combined model.

The logic controller approach tries to define the input-output behaviour of the controller, which satisfies all the system requirements. Using this method the control program can be deduced directly from the obtained I/O-behaviour. This approach leads to the physical implementation of the control program, but simulation is required to validate the closed-loop behaviour.

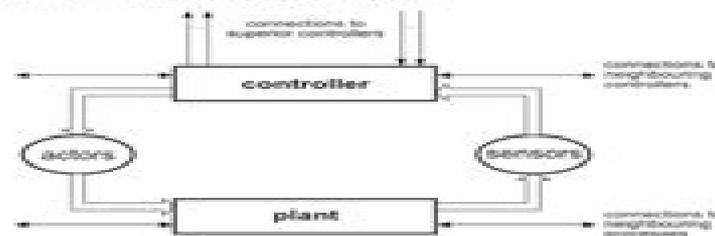


Fig. 1: STRUCTURE OF AUTOMATION SYSTEMS

The control theoretic approach has been investigated by numerous research teams and is getting more and more popular. The approach adopts the controller synthesis paradigm from control theory for continuous systems. A decomposition of an automation system leads to a structure very similar to a control loop in control

Synthesis And Control Of Discrete Event Systems

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