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~~Modeling, Identification, and Control of a Discrete ...~~

Modeling and control of discrete event systems (DES) have been studied by control engineers and scientists for more than 25 years. During this period, many modeling approaches have been proposed, including most notably automata or finite state machines [1] , [2] , Petri nets [3] , [4] and their variations such as vector DES [5] , [6] and event graphs [7] , queuing systems [2] and generalized semi-Markov processes [8] .

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become proficient with DEDs and to make use of them in practical applications.

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As discussed in Chapter 11 of Control Loop Foundation – Batch and Continuous Processes, some field devices used in the process industry require that the control system provide a pulsed output

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interface. For example, in the plastics industry extruders are often used to process plastic pellets into various products.

~~discrete » Modeling and Control~~

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illustrate the general control method. Modified gradient learning methods and evolutionary programming methods are compared for the purpose of optimizing the controller.

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In a feedforward NN based state space modeling and control of discrete systems are considered. They claim that their approach does not rely on a physical principle model of the dynamic system.

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But, the network outputs have been considered as the state variables which have to be available to train the network.

~~Discrete state space modeling and control of nonlinear ...~~

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Book Description Neural Networks Modelling and Control:

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Applications for Unknown Nonlinear Delayed Systems in Discrete Time focuses on modeling and control of discrete-time unknown nonlinear delayed systems under uncertainties based on Artificial Neural Networks. First, a Recurrent High Order Neural Network (RHONN) is used to identify discrete-time unknown nonlinear delayed systems under uncertainties, then a RHONN is used to design neural observers for the same class of systems.

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