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Control of Discrete-event Dynamic Systems ... Control theories for discrete event systems modeled as finite state machines have been well developed to address various fundamental control issues. However, finite state machine model has long suffered from the problem of state explosion that renders it unsuitable for some practical applications. Modeling and control of discrete event systems using ... Modeling, Identification, and Control of a Discrete Variable Stiffness Actuator (DVSA) 1. Introduction. Safety is the most important element during human-robot interactions in smart manufacturing and... 2. Design and Stiffness Model of the Discrete Variable Stiffness Actuator. The motivation for the ... Modeling,

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and moves on to present various tools used in their modeling and control. Among the instruments explained are many forms of Petri net, Grafcet (the sequential function chart), state charts, formal languages and max-plus algebra; all essential for control students to become proficient with DEDs and to make use of them in practical applications. Modeling and Control of Discrete-event Dynamic Systems

... Abstract These notes describe a computational framework for modeling, controlling, and analyzing hybrid systems in discrete-time. We describe three classes of hybrid models in detail: discrete hybrid automata (DHA), piecewise affine (PWA) systems, and mixed logical dynamical (MLD) systems. Modeling,

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the control system provide a pulsed output interface. For example, in the plastics industry extruders are often used to process plastic pellets into various products. discrete » Modeling and Control Modeling and Control of Discrete-event Dynamic Systems begins with the mathematical basics required for the study of DEDs and moves on to present various tools used in their modeling and control. Among the instruments explained are many forms of Petri net, Grafcet (the sequential function chart), state charts, formal languages and max-plus algebra; all essential for control students to become proficient with DEDs and to make use of them in practical applications. Modeling and Control of Discrete-event Dynamic Systems ... 6.

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example is formulated: (1) to describe and explain the DEVS formulation, and (2) to illustrate the general control method. Modified gradient learning methods and evolutionary programming methods are compared for the purpose of optimizing the controller.

MODELING AND CONTROL OF DISCRETE EVENT DYNAMIC SYSTEMS: A ... In this article, we review supervisory control of networked discrete-event systems. We first discuss how to model networked discrete-event systems and how to obtain state estimates using a networked observer. We then introduce and solve the following supervisory control problems of networked discrete-event systems: (i) (nondeterministic ... Modeling and Control of Networked Discrete-Event

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Systems ... Then, a discrete-time sliding mode controller is designed for the model obtained via the Symplectic Euler method for the tracking of the rotor velocity. A closed-loop simulation of the... (PDF)

Discrete-time modeling and control of PMSM At Emerson Exchange, 2012 I will be co-presenting a workshop with Mark Nixon and Marty Zielinski titled Addressing Control Applications Using WirelessHART Devices. In this workshop we will be address the technical basis for the PID modification, known as PIDPlus, that are included in DeltaV v11 to address control using the non-period, slow measurement updates ... “discrete control” » Modeling and Control Modeling and Robust Discrete-Time Sliding-

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Mode Control Design for a Fluid Power Electrohydraulic Actuator (EHA) System Abstract: This paper studies the design of a robust discrete-time sliding-mode control (DT-SMC) for a high precision electrohydraulic actuator (EHA) system. Modeling and Robust Discrete-Time Sliding-Mode Control ... Description Neural Networks Modelling and Control: 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.

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