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Modeling And Control Of 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 ...

Modeling and control of discrete event systems using ...

Discrete-event dynamic systems (DEDs) permeate our world, being of great importance in modern manufacturing processes, transportation and various forms of computer and communications networking. "Modeling and Control of Discrete-event Dynamic Systems" begins with the mathematical basics required

Modeling and Control of Discrete-event Dynamic Systems ...

A general reinforcement-learning approach for controlling discrete event systems is presented. A machine-repair example is form ulated: (1) to describe and explain the DEVS formulation, and (2) to illustrate the general control method. Modified gradient learning meth ods and evolutionary programming methods are compared for the purpose of optimizing the controller.

MODELING AND CONTROL OF DISCRETE EVENT DYNAMIC SYSTEMS: A ...

F. Čapkovič Modeling and Control of Discrete-Event Systems with Partial Non-Determinism using Petri Nets – 50 – Unfortunately, in PN models of real DES the situation is not so simple because of the above mentioned silent and indistinguishable transitions. From the DES control point of view it is necessary a deeper view.

Modeling and Control of Discrete-Event Systems with ...

Modeling and Control of Discrete Event Systems Using Finite State Machines with Variables and Their Applications in Power Grids Junhui Zhao a, Yi-Liang Chen b, Zhong Chen a,c, Feng Lin a,d*, Caisheng Wang a,e, and Hongwei Zhang f a Department of Electrical and Computer Engineering, Wayne State University, Detroit, MI 48202, USA

Modeling and Control of Discrete Event Systems Using ...

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 ...

Modeling and Control of Discrete-event Dynamic Systems ...

This article begins with an introduction to the modeling of discrete event systems, a class of dynamical systems with discrete states and event-driven dynamics. It then focuses on logical discrete event models, primarily automata, and reviews observation and control problems and their solution methodologies. Specifically, it discusses diagnosability and opacity in the context of partially ...

Discrete Event Systems: Modeling, Observation, and Control ...

ing a control law that optimally selects both the discrete inputs (gears) and continuous inputs (torque and brakes) requires a hybrid model that includes the continuous dy- namics of the power train, the discrete logic of the gearbox, and consumption/emission

Modeling, Control, and Reachability Analysis of Discrete ...

A branch of robotics, variable impedance actuation, along with one of its subfields variable stiffness actuation (VSA) targets the realization of complaint robotic manipulators. In this paper, we present the modeling, identification, and control of a discrete variable stiffness actuator (DVSA), which will be developed for complaint manipulators in the future.

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

Modeling, Control, and Reachability Analysis of Discrete-Time Hybrid Systems DISC Course on Modeling and Control of Hybrid Systems March 31, 2003

Modeling, Control, and Reachability Analysis of Discrete ...

Moreover, we apply an optimal control strategy in order to fight against the spread of the rumor through social media; regarding to this, we use theoretical results provided by Balatif et al. , where authors implemented a discrete time model that describes the dynamics of voters, and they proposed an optimal

control strategy; the same idea and strategy were applied by Labzai et al. , and in ...

A Discrete Mathematical Modeling and Optimal Control of ...

Discrete event systems is a growing field that utilizes many interesting mathematical models and techniques. In this book we focus on a high level treatment of discrete event systems. where the order of events. rather than their occurrence times, is the principal concern.

Modeling and Control of Logical Discrete Event Systems ...

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Discrete Event Systems: Modeling, Observation, and Control ...

Discrete-event dynamic systems (DEDs) permeate our world, being of great importance in modern manufacturing processes, transportation and various forms of computer and communications networking. 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.

Modeling and Control of Discrete-event Dynamic Systems ...

Abstract: This paper studies the design of a robust discrete-time sliding-mode control (DT-SMC) for a high precision electrohydraulic actuator (EHA) system. Nonlinear friction in the hydraulic actuator can greatly influence the performance and accuracy of the hydraulic actuators, and it is difficult to accurately model the nonlinear friction characteristics.

Modeling and Robust Discrete-Time Sliding-Mode Control ...

A simulation study is carried on in order to verify the good

performance of the proposed modeling and control scheme when compared to the case of using explicit Euler method for discrete-time ...

(PDF) Discrete-time modeling and control of PMSM

For discrete-time single-input single-output nonlinear plant and reference model, the model matching problem does not have an exact solution if the relative degree of the plant is larger than that of the reference model, but only approximate solutions can be considered.

On approximate model-reference control of SISO discrete ...

Advanced Control (134) Control Design & Commissioning (413) Distributed Control Systems (DCS) (188) Education (265) Fieldbus (26) Final Control Elements (112) Human Machine Interfaces (24) Measurements (192) Metrics (44) Mobile Worker (3) Process Control (352) Simulation (92) Standards (54) Uncategorized (21) Unit Operation Control (114 ...

"discrete output" » Modeling and Control

In this work a discrete-time model for Permanent Magnet Synchronous Motors (PMSM) is proposed based on the Symplectic Euler method. Open-loop simulations predict that the discrete-time model obtained via the Symplectic Euler method performs better

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