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Modeling And Control Of Discrete

The field of discrete event systems has emerged to provide a

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formal treatment of many of the man-made systems such as manufacturing systems, communication networks, automated traffic systems, database management systems, and computer systems that are event-driven, highly complex, and not amenable to the classical treatments based on differential or difference equations.

Modeling And Control Of Logical Discrete Event Systems

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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

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Modeling and Control of Logical Discrete Event Systems (The

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Science) 1995th Edition by Ratnesh Kumar (Author)

Modeling and Control of Logical Discrete Event Systems

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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 order to modeling and control smoking, Kouidere et al. suggested a model of the evolution from ...

A Discrete Mathematical Modeling and Optimal Control of

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MODELING AND CONTROL OF DISCRETE SYSTEMS USING

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GCML 53 The activities activity₁, to activity_n are the activities that decompose the compound activity. These activities can also be compound and further define levels of decomposition. The channel names are variables (start with a capital letter) that represent the communication channels.

Modeling and Control of Discrete Manufacturing Systems

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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] .

Modeling and control of discrete event systems using ...

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Abstract: Discrete-Event Systems (DES) are systems that are discrete in nature. A next state of DES depends on the actual state and on the occurrence of a discrete event. DES are often modeled and controlled by Petri Nets (PN) of different kinds (place/transition PN, timed PN, etc.). However, not always real DES, are purely deterministic.

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

Description : Petri nets are widely used in modeling, analysis, and control of discrete event systems arising from manufacturing, transportation, computer and communication networks, and web service systems. However, Petri net models for practical systems can be very large, making it difficult to apply such models to real-life problems.

Modeling And Control Of Discrete Event Dynamic Systems

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Modeling and Control of Discrete Event Systems Using Finite State Machines with Variables and Their Applications in Power Grids Control theories for discrete event systems modeled as finite state machines have been well developed to address various fundamental control issues.

Modeling and Control of Discrete Event Systems Using ...

A final discrete system is often modeled with a directed graph and is analyzed for correctness and complexity according to computational theory. Because discrete systems have a countable number of states, they may be described in precise mathematical models. A computer is a finite state machine that may be viewed as a discrete system.

Discrete system - Wikipedia

Based on over 20 years of evolution within a classroom environment, as well as on decades-long experience in

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developing simulation-based solutions for high-tech industries, Modeling and Simulation of Discrete-Event Systems is the only book on DES-MS in which all the major DES modeling formalisms – activity-based, process-oriented, state-based, and event-based – are covered in a unified manner: A well-defined procedure for building a formal model in the form of event graph, ACD, or state ...

Modeling and Simulation of Discrete Event Systems | Wiley

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

For example, Rosemount has released the 702 Wireless Discrete Transmitter, shown below. The 702 WirelessHART discrete

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transmitter is designed to take a variety of non-powered switch types such as pressure, flow and level switches as input. It has single or dual channel capacity.

WirelessHART - Discrete Measurement » Modeling and Control

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. 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.

Neural Networks Modeling and Control: Applications for

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"Final-year undergraduates and graduates embarking on further courses of study in control, manufacturing and process engineering, computer studies or operations research will find Modeling and Control of Discrete-event Dynamic Systems an invaluable companion to learning about the control of this increasingly important class of systems."--Jacket.

Modeling and control of discrete-event dynamic systems

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Petri Nets and Other Tools (Advanced Textbooks in Control and Signal Processing)

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This book begins with the mathematical basics required for the study of Discrete-event dynamic systems (DEDs) and moves on to present various tools used in their modeling and control. Among the instruments explained are many forms of Petri net, the sequential function chart, state charts, formal languages and max-plus algebra.

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This paper proposes a data-driven model-free sliding mode learning control (MFSMLC) for a class of discrete-time nonlinear systems. In this scheme, the control design does not depend on

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sliding mode learning control (MFSMLC) for a class of discrete-
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