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system literature emphasizes the synthesis of hybrid controllers for continuous or hybrid dynamical systems to satisfy complicated temporal logic specifications. This is known as symbolic control or hybrid supervisory control, which can be seen as a crosstalk between these two schools of thoughts.

Hybrid Dynamical Systems: An Introduction to Control and

Thus an understanding of the hybrid system aspects is essential to characterization of the behavior of these systems. A further class of hybrid dynamical systems was studied in the research monograph of Matveev and Savkin [73] (see also [71,72,103, 112-115]).

Hybrid dynamical systems: controller and sensor switching

Hybrid dynamical systems: controller and sensor switching problems, by A. V. Savkin and R. J. Evans. Birkhäuser, Boston, 2002. ISBN 0-8176-4224-2. Research on hybrid systems has been carried out from essentially two different per-

Hybrid dynamical systems: controller and sensor switching

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Hybrid Dynamical Systems: Observation and Control (Lecture

Hybrid dynamical systems are those with state variables that can both flow and jump. These systems can model mechanical systems with impacts, continuous-time control systems that employ logic variables, and biological systems with impulsive effects. Hybrid systems have been studied in the literature for at least forty years, with a renewed ...

Hybrid dynamical systems: robust stability and control

Design of piecewise linear hybrid dynamical systems using a control regulator approach X. KOUTSOUKOS* and P. ANTSAKLIS {Department of Electrical Engineering and Computer Science, Vanderbilt University, Nashville, TN 37235, USA {Department of Electrical Engineering, University of Notre Dame, USA This paper presents a novel framework for hierarchical control of piecewise linear hybrid

Design of piecewise linear hybrid dynamical systems using

Stability Theory for Hybrid Dynamical Systems Hui Ye, Anthony N. Michel, Fellow, IEEE, and Ling Hou Abstract—Hybrid systems which are capable of exhibiting simultaneously several kinds of dynamic behavior in different parts of a system (e.g., continuous-time dynamics, discrete-time dynamics, jump phenomena, switching and logic commands, and

Stability Theory for Hybrid Dynamical Systems - Automatic

Such are “hybrid” systems. In this paper, we introduce a formal notion of such systems: “general hybrid dynamical systems”; they are interacting collections of dynamical systems, evolving on continuous-variable state spaces, and subject to continuous controls and discrete phenomena.

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