

# Discrete-Time Sliding Mode Control for Robot Manipulators<sup>†</sup>

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**Abstract** In the real-field of control cases for robot manipulators, there always exists a modeling error, which results the model has the uncertainties in its parameters and/or structure. In many modern applications, digital computers are extensively used to implement control algorithms to control such systems. The discretization of the nonlinear dynamic equations of such systems results in a complicated discrete dynamic equations. Therefore, it will be difficult to design a discrete-time controller to give good tracking performances in the presence of certain uncertainties. In this paper, a discrete-time sliding mode control algorithm for nonlinear and time varying robot manipulators with uncertainties is presented. Sufficient conditions for guaranteeing the convergence of the discrete-time SMC system are derived. As example simulations, the proposed SMC algorithm is applied to a two-link robotic manipulator with unknown dynamics. The results of the simulation indicate that the developed control scheme is effective in manipulators and electro-mechanical system control.

**Key Words:** Sliding Mode Control(SMC), Discrete-time Controller, Robot Manipulator

## 1. INTRODUCTION

In recent years, methodology known as *sliding mode control* (SMC) has been researched actively, and the sliding mode control has effectively used in the tracking control of robot manipulators by many researchers[1,2,4-7,9,11-13]. The concept of sliding mode control has been studied in detail in Utkin [10], where it has been used to stabilize a class of non-linear systems. However, most of the related works [2,4,7,8] were based on the manipulator continuous-time linear parameterization model, which is a linear equation in terms of the unknown or unprecisely known parameter vector. In addition,

most continuous-time control laws require a large amount of computation.

The discretization of the nonlinear dynamic equations of such systems results in a complicated discrete dynamic equations. Therefore, it will be difficult to design a discrete-time controller to give good tracking performances in the presence of certain uncertainties. Whereas, the digital control algorithm is usually very simple and can be easily implemented on-line using microcomputers, so it is predominantly more effective in actual application. But only a few literatures [1,3,5,6] have studied the manipulator discrete-time model and discrete-time control so far.

In this paper, based on the continuous-time SMC theory[8,10,14,15,16], when the sample time is small enough, the manipulator dynamic model is equivalent to a 2 order discrete-time equation whose

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# A New Algorithm For Discrete Time Sliding Mode Control

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