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Switching Hybrid Systems  
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eligible orders.

*Sliding Mode Control of  
Uncertain Parameter-  
Switching ...*

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Parameter-time Switching based  
on fractional order reaching  
law. The design and  
validation of a new

fractional order (FO)

reaching law for uncertain  
discrete-time systems is

studied. A sliding mode

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Parameter is subsequently  
constructed by adopting this  
law.

## Series In Dynamics And

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A predictor is designed to

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Parameter Switching effect  
in the control input, and  
then an integral sliding  
mode control technique along  
with super-twisting  
algorithm is applied to  
compensate partially the  
effect of the perturbation

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term. Finally, a nominal delay-free part of the control input is designed to stabilize the sliding mode dynamics.

## Electromechanical Systems

*Sliding mode predictive control of linear uncertain*

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The methodology provides guarantees on the level of closed-loop performance that will be achieved by uncertain systems which experience delay. The methodology is also shown to



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Parameter Switching  
facilitate sliding-mode  
controller design for  
systems with polytopic  
uncertainties, where the  
uncertainty may appear in  
all blocks of the system  
matrices.

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*Sliding-mode control of  
uncertain systems in the  
presence . . .*

This study proposes a  
sliding mode control method  
for chaos control of the  
uncertain unified chaotic  
systems. A sliding mode

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control law is developed by using a PI switching surface, and the reachability condition is satisfied. I believe that this method will be generalized.

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*Sliding mode control of  
uncertain unified chaotic  
systems ...*

So far, sliding mode control  
(SMC) is one of the  
influential nonlinear  
control methods that have  
been widely applied to

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Parameter for both certain and uncertain systems. In order to design sliding mode control systems, the establishment of suitable sliding surfaces to ensure the desired dynamics is considered first, and then a

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Sliding mode controller is designed to drive the states of the system on the sliding surfaces.

## Control Of

*Adaptive terminal sliding mode control of uncertain*

...

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Abstract. This paper presents a robust sliding mode control law for time delay systems with parametric uncertainties and external disturbances. The uncertainties and disturbances are assumed to

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Parameter. The method for  
designing a switching  
hyperplane using Lambert W  
function is proposed for  
generation of sliding motion  
in the system.

*Sliding Mode Control of*

*Page 24/51*



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*Uncertain Time Delay System  
using . . .*

To improve the robustness of the model predictive control (MPC) in the presence of modeling uncertainties and disturbances in the steering control processes, a sliding

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mode predictive tracking control (SMPC) strategy for a SbW system with uncertain dynamics is proposed. The simulation and experimental results demonstrate that the performance of the proposed SMPC tracking controller is

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superior to both SMC and MPC  
methods for the steering  
angle tracking task.

*Sliding mode predictive  
tracking control for  
uncertain ...*

Abstract. In this paper, a

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Sliding mode control (SMC) of uncertain discrete singular systems with external disturbances and time-varying delays is under consideration. By use of the free weighting matrices and the Lyapunov-Krasovskii

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functional, a delay-  
dependent sufficient  
condition is given in strict  
linear matrix inequality  
(LMI) format to guarantee  
the sliding mode dynamics to  
be admissible (regular,  
causal and stable).

# File Type PDF Sliding Mode Control Of Uncertain Parameter Switching

*Robust sliding mode control  
for uncertain discrete ...*

In this paper, an adaptive  
second-order terminal  
sliding-mode (SOTSM)  
controller is proposed for  
controlling uncertain

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systems. The design  
procedure is carried out in  
two parts. A linear sliding

## Control Of

*Second-order terminal  
sliding mode control of  
uncertain ...*

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Full Text. References.

Abstract. This paper addresses asymptotic stabilization of uncertain nonlinear fractional-order systems with bounded inputs in the presence of model uncertainties and external



# File Type PDF Sliding Mode Control Of Uncertain Parameter Switching disturbances.

*Adaptive constrained sliding  
mode control of uncertain*

*...*  
Control Of

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Uncertain Parameter-

Switching Hybrid Systems is

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a comprehensive reference  
for researchers and  
practitioners working in  
control engineering, system  
sciences and applied  
mathematics, and is also a  
useful source of information  
for senior undergraduate and

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graduates studying in these  
areas.

*Sliding Mode Control of  
Uncertain Parameter-  
Switching ...*

The bounding techniques of  
the sliding mode controller

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Parameter are then used to develop a combined classical (non-sliding) controller-observer design method for uncertain time delay systems. Two observer structures are developed to estimate system states, and

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a linear feedback control is given based on the observed states to asymptotically stabilize the combined plant-controller-observer.

## Electromechanical Systems

*Sliding mode control of  
uncertain time delay systems*

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## Parameter Switching

Subsequently, terminal sliding mode tracking control is developed using disturbance observer

technique for the uncertain SISO nonlinear system with control singularity and

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Parameter non-symmetric input saturation. The effects of the control singularity and unknown input saturation are combined with the external disturbance which is approximated using the disturbance observer.

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*Terminal sliding mode  
tracking control for a class  
of SISO ...*

Sliding-mode control of  
continuous time-systems with  
robust. continuous-time  
control techniques has been



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Parameter Switching for  
decades world-wide. However,  
implementation nowadays is  
in discrete time. A

mathematical proof of  
stability and robustness is  
especially complicated for  
discrete-time control . A

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recent literature study on discrete sliding mode control showed that current developments cannot deal with uncertainties which would be overcome via robust continuous-time control techniques.

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*Sliding mode control theory  
- discrete control of ...*

This paper investigates the robust adaptive sliding mode control problem for a class of nonlinear uncertain neutral Markovian jump

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Parameter Switching, An  
observer-based adaptive  
sliding mode controller is  
synthesized to render the  
resulting error system  
stochastically stable with a  
prescribed disturbance  
attenuation level.

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*Robust Adaptive Sliding Mode  
Control for Nonlinear ...*

Many works on the sliding  
mode control of uncertain  
fractional-order nonlinear  
systems are published in the  
literature, we can cite for

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instance, , , , . In these works, the conventional SMC is used, where the uncertainties are compensated by using high gains in the discontinuous control law.

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*Sliding mode active  
disturbance rejection  
control for ...*

Fractional-order calculation  
for stability analysis and  
controller design. Abstract.  
The main goal in this  
article is synchronization

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Control Of Uncertain  
of fractional-order  
uncertain chaotic systems in  
the finite time. For this  
aim, a terminal sliding mode  
controller with fractional  
sliding surface is employed  
to synchronize the states of  
two different fractional



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order chaotic systems with  
parameter uncertainties and  
external disturbances.

*Adaptive terminal sliding  
mode control scheme for ...*

-The sliding mode control  
usually applies to the

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system with matched  
uncertainties, i.e. the  
uncertainties enter the  
system at the same level

(point) with the  
control.-The sliding mode  
control cannot usually  
handle arbitrary unmatched

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uncertainties, Suppose: The  
system (\*) is modified as:

The system is transformed as

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## Electromechanical Systems

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