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of Uncertain



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Parameter-Switching

Of Uncertain

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Sliding mode control

for uncertain discrete-

time systems 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

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mode controller is subsequently constructed by adopting this law.

Switching

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Sliding mode control for uncertain ...

A predictor is designed to compensate the delay effect in the control input, and then an integral

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sliding mode control technique along with super-twisting algorithm is applied to compensate partially the effect of the perturbation term. Finally, a nominal delay-free part of the control input is designed to stabilize the sliding mode dynamics.

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### Mode Control

predictive control of  
linear uncertain ...

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 facilitate  
sliding-mode

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controller design for systems with polytopic uncertainties, where the uncertainty may appear in all blocks of the system matrices.

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

This study proposes a sliding mode control method for chaos

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Mode Control  
control of the  
uncertain unified  
chaotic systems. A  
sliding mode control  
law is developed by  
using a PI switching  
surface, and the  
reachability  
condition is satisfied.

I believe that this  
method will be  
generalized.

Systems

Sliding mode control

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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 control for both

certain and uncertain  
systems , , . In order

to design sliding

mode control

systems, the

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establishment of suitable sliding surfaces to ensure the desired dynamics is considered first, and then a sliding mode controller is designed to drive the states of the system on the sliding surfaces.

Adaptive terminal sliding mode control



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## PDF Sliding

of uncertain...

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 be

matched. The

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

Sliding Mode Control  
of Uncertain Time  
Delay System using ...  
To improve the  
robustness of the  
model predictive

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control (MPC) in the presence of modeling uncertainties and disturbances in the steering control processes, a sliding mode predictive tracking control (SMPC) strategy for a SbW system with uncertain dynamics is proposed. The simulation and experimental results

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demonstrate that the performance of the proposed SMPC tracking controller is superior to both SMC and MPC methods for the steering angle tracking task.

Sliding mode predictive tracking control for uncertain

Abstract. In this

*Page 20/39*

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paper, a 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–Krasovski  $i$  functional, a delay-dependent sufficient condition is given in

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strict linear matrix  
inequality (LMI)  
format to guarantee  
the sliding mode  
dynamics to be  
admissible (regular,  
causal and stable).

Robust sliding mode  
control for uncertain  
discrete ...

In this paper, an  
adaptive second-  
order terminal sliding-

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mode (SOTSM)

controller is proposed for controlling uncertain systems. The design procedure is carried out in two parts. A linear sliding ...

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

Full Text. References.

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

Adaptive constrained sliding mode control



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of uncertain...

Sliding Mode Control  
of Uncertain

Parameter-Switching

Hybrid Systems is a

comprehensive

reference for

researchers and

practitioners working

in control

engineering, system

sciences and applied

mathematics, and is

also a useful source

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of information for  
senior undergraduate  
and graduates  
studying in these  
areas.

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Sliding Mode Control  
of Uncertain

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Control Of Elect

The bounding  
techniques of the  
sliding mode

controller design are

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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 a linear feedback control is given based on the observed states to

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asymptotically  
stabilize the  
combined plant-  
controller-observer.

Switching

Sliding mode control  
of uncertain time  
delay systems - CORE

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

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Mode Control  
Of Uncertain  
Parameter  
Switching  
Hybrid Systems  
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Electronic And  
Control Of Elect  
romechanical  
Systems

for the uncertain SISO  
nonlinear system  
with control  
singularity and  
unknown non-  
symmetric input  
saturation. The  
effects of the control  
singularity and  
unknown input  
saturation are  
combined with the  
external disturbance  
which is

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approximated using  
the disturbance  
observer.

Parameter

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 under

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investigation 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 recent literature

study on discrete

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mode control

showed that current  
developments

cannot deal with

uncertainties which

would be overcome

via robust continuous-  
time control

techniques.

Control Of Elect

Sliding mode control

theory - discrete

control of ...

This paper



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investigates the robust adaptive sliding mode control problem for a class of nonlinear uncertain neutral Markovian jump systems. In this study, An observer-based adaptive sliding mode controller is synthesized to render the resulting error system stochastically

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Mode Control

Of Uncertain

Parameter  
attenuation level.

Switching

Robust Adaptive

Sliding Mode Control  
for Nonlinear ...

Many works on the

sliding mode control  
of uncertain

fractional-order

nonlinear systems are

published in the

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literature, we can cite for instance [1, 2, 3, 4]. In these works, the conventional SMC is used, where the uncertainties are compensated by using high gains in the discontinuous control law.

Sliding mode active disturbance rejection control for ...

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Fractional-order calculation for stability analysis and controller design.

Abstract. The main goal in this article is synchronization of fractional-order uncertain chaotic systems in the finite time. For this aim, a terminal sliding mode controller with fractional sliding

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surface is employed to synchronize the states of two different fractional order chaotic systems with parameter uncertainties and external disturbances. And

Adaptive terminal sliding mode control scheme for...

-The sliding mode

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control usually applies to the 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 uncertainties,  
Suppose: The system

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(\* is modified as: The  
system is  
transformed as

Parameter

Switching

Hybrid Systems

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