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Parameter Switching reaching
law. The design and
validation of a new
fractional order (FO)
reaching law for uncertain
discrete-time systems is
studied. A sliding mode
controller is subsequently

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constructed by adopting this
law.

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Electromechanical Systems

A predictor is designed to
compensate the delay effect

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Parameter Switching, and
then an integral sliding
mode control technique along
with super-twisting

algorithm is applied to
compensate partially the
effect of the perturbation
term. Finally, a nominal

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delay-free part of the
control input is designed to
stabilize the sliding mode
dynamics.

Control Of
*Sliding mode predictive
control of linear uncertain*
Electromechanical Systems

...

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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 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

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*Parameter Switching in the
presence . . .*

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

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Parameter Switching
surface, and the
reachability condition is
satisfied. I believe that
this method will be
generalized.

Sliding mode control of

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*Parameter Switching
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

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Parameter Switching . 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 sliding mode controller is

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Parameter Switching states
of the system on the sliding
surfaces.

*Adaptive terminal sliding
mode control of uncertain*

...

Abstract. This paper

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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 method for

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

Electromechanical Systems

*Sliding Mode Control of
Uncertain Time Delay System*

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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 mode predictive tracking

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Parameter (SMPC) strategy for a SISO system with uncertain dynamics is proposed. The simulation and experimental results demonstrate that the performance of the proposed SMPC tracking controller is superior to both SMC and MPC

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Methods for the steering
angle tracking task.

*Sliding mode predictive
control for
uncertain ...*

Abstract. In this paper, a
sliding mode control (SMC)

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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 functional, a delay-

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Parameter Switching
condition is given in strict
linear matrix inequality
(LMI) format to guarantee
the sliding mode dynamics to
be admissible (regular,
causal and stable).

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

In this paper, an adaptive
second-order terminal

sliding-mode (SOTSM)

controller is proposed for
controlling uncertain

systems. The design

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procedure is carried out in
two parts. A linear sliding

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Second-order terminal

*sliding mode control of
uncertain ...*

Full Text. References.

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

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*Adaptive constrained sliding
mode control of uncertain*

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Switching Hybrid Systems is

a comprehensive reference

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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 graduates studying in these

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*Sliding Mode Control of
Uncertain Parameter-*

Switching...

The bounding techniques of
the sliding mode controller
design are then used to

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Parameter Switching
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Series In Dynamics And
Systems. develop a combined classical
(non-sliding) controller-
observer design method for
uncertain time delay

Control Of Electromechanical Systems
Two observer
structures are developed to
estimate system states, and
a linear feedback control is

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controller-observer.
Control Of

*Sliding mode control of
Electromechanical Systems
uncertain time delay systems*

- CORE

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Subsequently, terminal sliding mode tracking control is developed using disturbance observer technique for the uncertain SISO nonlinear system with control singularity and unknown non-symmetric input

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Parameter Switching of 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
under investigation for

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Parameter 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

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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 systems. In this study, An

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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 instance [1, 2, 3, 4, 5]. In

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

Sliding mode active

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*disturbance rejection
control for ...*

Fractional-order calculation
for stability analysis and
controller design. Abstract.

The main goal in this
article is synchronization
of fractional-order

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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 order chaotic systems with

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parameter uncertainties and
external disturbances.

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

-The sliding mode control
usually applies to the
system with matched

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Control. The sliding mode
Electromechanical Systems
control cannot usually
handle arbitrary unmatched
uncertainties, Suppose: The

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system (*) is modified as:

The system is transformed as

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