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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 mode controller is subsequently constructed by adopting this law.

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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 sliding mode control technique along with super-twisting algorithm is applied to compensate partially the effect of the

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perturbation term.

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

Sliding mode predictive control of linear uncertain ...

The methodology provides guarantees on the level of closed-loop performance that will be

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Control Of uncertain systems which experience delay. The methodology is also shown to facilitate sliding-mode 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

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presence ... Of

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

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 control for both certain and uncertain systems, , . In order to design sliding mode control systems,

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the 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 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 designing a switching hyperplane using Lambert W function is proposed for generation

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of sliding motion in the
system.

*Sliding Mode Control of
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

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processes, a sliding 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 superior to both SMC

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and MPC methods for
the steering angle
tracking task.

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

Abstract. In this paper, a
sliding mode control
(SMC) of uncertain
discrete singular
systems with external
disturbances and time-
varying delays is under

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consideration. By use of the free weighting matrices and the Lyapunov–Krasovskii 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).

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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 procedure is carried out in two parts. A linear sliding ...

Second-order terminal

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sliding mode control of uncertain ...

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 disturbances.

Adaptive constrained

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sliding mode control of uncertain ...

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Systems is a comprehensive

reference for researchers and practitioners

working in control engineering, system sciences and applied

mathematics, and is also a useful source of

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information for senior undergraduate and graduates studying in these areas.

Switching

Sliding Mode Control of Uncertain Parameter-Switching ...

The bounding techniques of the sliding mode controller design are then used to develop a combined classical (non-sliding) controller-

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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 asymptotically stabilize the combined plant-controller-observer.

Sliding mode control of

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*uncertain time delay
systems - CORE*

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 saturation. The effects of the control singularity

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and unknown input saturation are combined with the external disturbance which is approximated using the disturbance observer.

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

Sliding-mode control of continuous time-systems with robust, continuous-time control techniques

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has been under 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 sliding mode control showed that

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current developments cannot deal with uncertainties which would be overcome via robust continuous-time control techniques.

Sliding mode control theory - discrete control of...

This paper investigates the robust adaptive sliding mode control problem for a class of

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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 stable
with a prescribed
disturbance attenuation
level.

Robust Adaptive Sliding

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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, , , , , . In

these works, the conventional SMC is used, where the uncertainties are compensated by using

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high gains in the
discontinuous control
law.

*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 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 parameter uncertainties and external disturbances.

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

-The sliding mode 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

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uncertainties, Suppose:

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

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