

## Adaptive Terminal Sliding Mode Control For Nonlinear

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Adaptive Terminal Sliding Mode Control

Abstract In this paper, robust and adaptive nonsingular fast terminal sliding-mode (NFTSM) control schemes for the trajectory tracking problem are proposed with known or unknown upper bound of the system uncertainty and external disturbances.

Adaptive nonsingular fast terminal sliding-mode control ...

Abstract This paper presents the design of a novel adaptive terminal sliding mode controller (ATSMC) and its application to motion tracking control of a piezoelectric?driven micropositioning system.

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Adaptive Terminal Sliding Mode Control for Motion Tracking ...

A robust adaptive integral terminal sliding mode control strategy is proposed in this paper to deal with unknown but bounded dynamic uncertainties of a nonlinear system. This method is applied for the control of upper limb exoskeleton in order to achieve passive rehabilitation movements.

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Adaptive integral terminal sliding mode control for upper ...

Adaptive terminal sliding mode control subject to input nonlinearity for synchronization of chaotic gyros 1. Introduction. Synchronization between two systems is one of the important processes in the control of complex... 2. Dynamics of chaotic gyro and synchronized problem formulations. The system ...

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Adaptive terminal sliding mode control subject to input ...

A fractional-order adaptive terminal sliding mode controller is developed to estimate the upper bounds of perturbations. Both suggested control laws are useful for fractional-order uncertain chaotic master–slave systems.

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Adaptive terminal sliding mode control scheme for ...

In this paper, a robust adaptive terminal sliding mode controller is proposed for dynamic positioning of a semi-submersible offshore platform. First, a state feedback controller is designed to stabilize the nominal system.

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Robust adaptive terminal sliding mode control for dynamic ...

For this reason, the nonsingular terminal sliding mode (NTSM) control method and the adaptive technique have been considered in this paper to develop a novel adaptive NTSM control method, which can be used to search the minimal value of the control gain automatically in the presence of the external disturbances.

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A novel adaptive nonsingular terminal sliding mode ...

Abstract: In this paper, we develop robust adaptive nonsingular terminal sliding mode (NTSM) control methodologies to solve the position and the velocity tracking control problem of the automatic train operation (ATO) system subject to unknown parameters, model uncertainty, and external disturbances.

## Read Online Adaptive Terminal Sliding Mode Control For Nonlinear

### Robust Adaptive Nonsingular Terminal Sliding Mode Control ...

Abstract This paper presents an extended adaptive control scheme via terminal sliding mode (TSM) for cable-driven parallel manipulators (CDPM). Compared with linear hyperplane-based sliding mode control, TSM is able to guarantee high-precision and robust tracking performances which arise from its main feature of finite-time convergence.

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### Adaptive Terminal Sliding Mode Control of a Redundantly ...

Motivated by aforementioned essential issues, a novel integral terminal sliding-mode-based adaptive integral backstepping control (ITSMABC) is proposed to achieve high precision and fast motion in this paper for a PUM, where complex hysteresis and friction nonlinearities, unknown heat disturbance, model uncertainties, and other external disturbance are presented.

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### Integral terminal sliding-mode-based adaptive integral ...

In order to improve the response characteristics of the system and attenuate the uncertainties, the developed robust model-free controller incorporates time delay control (TDC) as well as adaptive terminal sliding mode control (ATSMC) methods.

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### Adaptive High-Order Terminal Sliding Mode Control Based on ...

The proposed AFO<sup>o</sup>TSMC method is composed of an adaptive high<sup>o</sup>order terminal sliding mode control integrated with fractional<sup>o</sup>order (FO) control. An adaptive tuning control is utilised to evaluate the uncertain unknown dynamics of the system without relying on the prior knowledge of the upper bounds.

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### Adaptive Fractional High<sup>o</sup>order Terminal Sliding Mode ...

An adaptive terminal-integral sliding mode force control is proposed by considering the hysteresis and the effects between the end effector and a flexible environment. Force control has not been studied extensively nowadays and even less for elastic joint robot manipulators.

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### Adaptive Terminal-Integral Sliding Mode Force Control of ...

Adaptive terminal sliding mode controllers (ATSMC) are built when a Hamiltonian system has a chaotic behavior and a hidden attractor is detected. A Lyapunov approach is used to formulate the adaptive device controller by creating a control law and the adaptive law, which are used online to make the system states stable while at the same time suppressing its chaotic behavior.

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Stabilization of Port Hamiltonian Chaotic Systems with ...

This paper presents an adaptive nonsingular terminal sliding mode controller for a bearingless permanent magnet synchronous motor. In order to rapidly converge state variables associated with terminal sliding mode control, an adaptive variable-rated exponential reaching law, in which the L1 norm of state variables is introduced, is proposed for the second-order uncertain nonlinear dynamical ...

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Design of an adaptive nonsingular terminal sliding model ...

Abstract: This article aims to develop an effective control method that can improve the convergence rate over the existing adaptive nonsingular integral terminal sliding mode control (ANITSMC) method for the trajectory tracking control of autonomous underwater vehicles (AUVs).

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Trajectory Tracking Control of AUVs via Adaptive Fast ...

A robust adaptive integral terminal sliding mode control strategy is proposed in this paper to deal with unknown but bounded dynamic uncertainties of a nonlinear system. This method is applied for...

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(PDF) Adaptive integral terminal sliding mode control for ...

This paper presents an adaptive nonsingular terminal sliding mode control approach for the attitude control of a hypersonic vehicle with parameter uncertainties and external disturbances based on Chebyshev neural networks (CNNs). First, a new nonsingular terminal sliding surface is proposed for a general uncertain nonlinear system.

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