Adaptive Terminal Sliding Mode Control For Nonlinear

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Adaptive Terminal Sliding Mode Control
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.

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

Adaptive terminal sliding mode control subject to input ...
The proposed AFO-HoTSMC method is composed of an adaptive high-order terminal sliding mode control integrated with fractional-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. FO control and HoTSMC are used to achieve the fast finite-time convergence, chatter-free control inputs, better tracking performance and robustness.

Adaptive Fractional High-order Terminal Sliding Mode ...
Adaptive High-Order Terminal Sliding Mode Control Based on Time Delay Estimation for the Robotic Manipulators With Backlash Hysteresis. Abstract:This paper presents the results for model-independent control of uncertain n-degree of freedom robotic manipulators in the presence of external disturbances and backlash hysteresis.

Adaptive High-Order Terminal Sliding Mode Control Based on ...
To improve the trajectory tracking accuracy of AUV, an adaptive backstepping terminal sliding mode control based on recurrent neural networks (RNN) is proposed. Firstly, considering the inaccurate of thrust model of thruster, a Taylor’s polynomial is used to obtain the thrust model errors.

Adaptive Backstepping Terminal Sliding Mode Control Method ...
An adaptive terminal sliding mode control for six-degree-of-freedom electromagnetic spacecraft formation flying (EMFF) in near-Earth orbits is presented. By using terminal sliding mode (TSM) techni...

Adaptive Terminal Sliding Mode Control of Electromagnetic ...
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.

Adaptive integral terminal sliding mode control for upper ...
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 stab... Robust adaptive terminal sliding mode control for dynamic positioning of a semi-submersible offshore platform - Dongya Zhao, Hao Liang, Sarah K Spurgeon, 2019.

Robust adaptive terminal sliding mode control for dynamic ...
Motivated by aforementioned essential issues, a novel integral terminal sliding-mode-based adaptive integral backstepping control (ITSMAIBC) 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.

Integral terminal sliding-mode-based adaptive integral ...
This paper proposes a sliding mode observer (SMO) with adaptive gain variation for the permanent synchronous motor magnet (PMSM) for estimating motor speed and position. The observer is designed to make the drive sensorless, speed estimation and rotor position using back-electromotive force (Back-EMF).

Design of an Adaptive Gain variation Sliding Mode Control ...
The proposed control strategy drives tracking errors to a nonsingular fast terminal sliding surface and realizes fast convergence in finite time. The designed adaptive law approximates the upper bound of estimation error in time-delay estimation and thus it reduces the fundamental chattering on the switching manifold.

Model-free based adaptive nonsingular fast terminal ...
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).

Trajectory Tracking Control of AUVs via Adaptive Fast ...
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.

Robust Adaptive Nonsingular Terminal Sliding Mode Control ...
In, a new nonsingular terminal sliding mode (NTSM) surface has been introduced to eliminate singularity within the finite time. An adaptive nonsingular terminal sliding mode control also has been presented for an attitude tracking of spacecraft with actuator faults to avoid singularity.

Nonsingular Fast Terminal Adaptive Neuro-sliding Mode ...
This paper proposed an adaptive vector nonsingular terminal sliding mode control (NTSMC) algorithm for the finite-time tracking control of a class of n-order nonlinear dynamical systems with uncertainty.

Adaptive Vector Nonsingular Terminal Sliding Mode Control ...
In this article, an adaptive target tracking controller based on nonsingular terminal sliding mode control is designed for underactuated AUV. Unknown dynamics of the AUV are approximated by RBFNN. Adaptive tuning algorithm is employed to update gains of sliding mode controller and weights of the NN, which makes the system more robust to model uncertainties and external disturbances.

Target tracking control of underactuated autonomous ...
In this paper, a reaching law-based adaptive fixed-time terminal sliding mode control law, which is used for coupled spacecraft tracking maneuver in the presence of large inertia parametric uncertainties and external disturbances, is proposed. The coupled 6-DOF kinematics and dynamics for spacecraft motion are modeled on Lie group SE(3).

Adaptive Fixed-Time Terminal Sliding Mode Control on SE(3 ...
This paper presents a new widely and stably adaptive sliding-mode control (WS-ASMC) with nonsingular terminal sliding variable to enhance the performance in reaching and sliding phases.

A New Widely and Stably Adaptive Sliding-mode Control With ...
In this control scheme instead of regular control input, the derivative of the control input is achieved from a non-singular terminal second-layer sliding surface. An adaptive tuning method is utilized to deal with the external disturbances whose upper bounds are not required to be known in advance in the inner loop.