

# Adaptive Terminal Sliding Mode Control For Nonlinear

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**HASSAN LIVINGSTON**

**Adaptive High-Order Terminal Sliding Mode Control Based on ...** Adaptive Terminal Sliding Mode Control, a terminal sliding mode control is developed to control a second-order nonlinear systems in the presence of some perturbations. In order to cope the disturbances, nonlinearities, and uncertainties of nonlinear systems, a new adaptive global terminal sliding mode control approach is proposed in .Robust adaptive backstepping fast terminal sliding mode ...Adaptive Fast Terminal Sliding Mode Control of A Suspended Cable-Driven Robot Abstract: Increasing the speed and precision of operation in cable robots is crucial due to the flexibility of cables. On the other hand, due to the frequent dynamical uncertainties present in cable robots, providing a robust control method is necessary. The ...Adaptive Fast Terminal Sliding Mode Control of A Suspended ...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 ...By combining the techniques of neural network parameterization, adaptive control, and terminal sliding mode control, the results show the advantages of these methods, such as fast response time, finite time convergence and small tracking errors.Adaptive terminal sliding mode control of uncertain ...An adaptive terminal sliding mode control (SMC) technique is proposed to deal with the tracking problem for a class of high-order nonlinear dynamic systems. It is shown that a function augmented sliding hyperplane can be used to develop a new terminal sliding mode for high-order nonlinear systems.Adaptive terminal sliding mode control for high-order ...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 ...In this paper, the adaptive terminal sliding mode controller subject to input nonlinearity has been addressed without requiring the magnitudes of nonlinear dynamics. Techniques for achieving complete synchronization and anti-synchronization between two chaotic gyros with system uncertainties and external disturbances are demonstrated.Adaptive terminal sliding mode control subject to input ...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 ...An adaptive nonsingular fast terminal sliding mode control scheme consisting of an adaptive control term and a robust control term for electromechanical actuator is proposed in this article. The adaptive control term with an improved composite adaptive law can estimate the uncertain parameters and compensate for the modelled dynamical ...Adaptive nonsingular fast terminal sliding mode control ...Abstract: This paper focuses on the design of an adaptive second-order fast nonsingular terminal sliding mode control (ASOFNTSMC) scheme for the trajectory tracking of fully actuated autonomous underwater vehicles (AUVs) in the presence of dynamic uncertainties and time-varying external disturbances. First, a second-order fast nonsingular terminal sliding mode (SOFNTSM) manifold is designed to ...Adaptive Second-Order Fast Nonsingular Terminal Sliding ...By using adaptive neural control methods, the author discussed the synchronization for robotic manipulators in the study by Liu et al. 34 Motivated by above analysis, this article will research a terminal sliding mode (TSM)

control for uncertain spatial robot, which doesn't require prior knowledge about the system. The unknown nonlinear ...Adaptive neural network terminal sliding mode control for ...Abstract: This paper focuses on the trajectory tracking control of unmanned underwater vehicles (UUVs) in the presence of dynamic uncertainties and time-varying external disturbances. Two adaptive integral terminal sliding mode control schemes, namely, adaptive integral terminal sliding mode control (AITSMC) scheme and adaptive fast integral terminal sliding mode control (AFITSMC) scheme are ...Double-Loop Integral Terminal Sliding Mode Tracking ...In this paper, an adaptive fast terminal sliding mode control technique combined with a global sliding mode control scheme is investigated for the tracking problem of uncertain nonlinear third-order systems. The proposed robust tracking controller is formulated based on the Lyapunov stability theory and guarantees the existence of the sliding mode around the sliding surface in a finite time.An adaptive fast terminal sliding mode control combined ...Non-singular terminal sliding mode control is used to make the converter reach steady state within a limited time, and an adaptive law is integrated to the non-singular terminal sliding mode ... (PDF) Adaptive Non-singular Terminal Sliding Mode Control ...This paper presents an adaptive terminal sliding mode control algorithm for robot manipulators. The contribution of our control method is that the suggested controller can enable the advantages of ... (PDF) An Adaptive Terminal Sliding Mode Control for Robot ...To solve such problems, an adaptive compound second-order terminal sliding mode controller is proposed. First, a combination of the complementary sliding mode surface and second-order terminal sliding mode control is introduced.Adaptive compound second-order terminal sliding mode ...The global fast dynamic terminal sliding mode control (GTSMC) is proposed and has been widely studied. 20,21 On the other hand, in order to reduce the control error, the complementary sliding mode control (CSMC) has been designed 22 and applied to the fault-tolerant control for six-phase permanent magnet synchronous motor (PMSM) drive system ...Adaptive compound second-order terminal sliding mode ...an adaptive terminal sliding mode control for DC DC buck converters has been presented and the purpose of the [20] is to introduce the adaptive TSM controller subject to input nonlinearity for complete synchronization and anti-synchronization between twoTerminal Sliding Mode Control for Nonlinear Systems with ...The tracking control problem for uncertain spatial robot is investigated by means of adaptive terminal sliding mode control in this article. To approximate unknown nonlinear functions of these systems, a neural network model is employed. 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. Double-Loop Integral Terminal Sliding Mode Tracking ... The global fast dynamic terminal sliding mode control (GTSMC) is proposed and has been widely studied. 20,21 On the other hand, in order to reduce the control error, the complementary sliding mode control (CSMC) has been designed 22 and applied to the fault-tolerant control for six-phase permanent magnet synchronous motor (PMSM) drive system ... **Adaptive terminal sliding mode control subject to input ...** Adaptive Terminal Sliding Mode Control *Adaptive Fast Terminal Sliding Mode Control of A Suspended ...* An adaptive terminal sliding mode control (SMC) technique is proposed to deal with the tracking problem for a class of high-order nonlinear dynamic systems. It is shown that a function augmented sliding hyperplane can be used to develop a new terminal sliding mode for high-order nonlinear systems. **An adaptive fast terminal sliding mode control combined ...** In this paper, robust and adaptive nonsingular fast terminal

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