

# An Adaptive Terminal Sliding Mode Control Scheme via Neural Network Approach for Path-following Control of Uncertain Nonlinear Systems

Thanh Nguyen Truong<sup>✉</sup>, Anh Tuan Vo<sup>✉</sup>, and Hee-Jun Kang<sup>\*✉</sup>

**Abstract:** In this paper, we design a neural network-based non-singular fast terminal sliding mode control (NFTSMC) for path tracking control of uncertain nonlinear systems (UNLSs). The major features of the proposed control algorithm are to combine merits of feed-forward neural network (FFNN) and NFTSMC, such as approximation ability, rapid convergence rate, along with strong properties to external disturbances and uncertain dynamics. A controller is derived from the above combination for high control performance and fast convergence of state variables in presence of those unknown components. Besides, a fast-reaching control law (FRCL) is also applied to obtain a faster convergence time. The new contribution of the proposed method is to propose a PI-nonsingular fast terminal sliding mode surface (PI-NFTSMS) and to use a non-singular fast terminal sliding mode-based-error filter into FFNN. The contribution of the proposed method is a PI-NFTSMS and use of a non-singular fast terminal sliding mode-based-error filter into FFNN. With this approach, the lumped uncertain dynamics (LUDs) have been quickly and fully offset. Accordingly, the proposed controller can obtain a faster convergence time, higher tracking accuracy, lesser chattering than classical NFTSMC, and avoid the glitch of state variables in reaching the sliding manifold. Consequently, the stabilization of the whole closed loop control system is then guaranteed with strong control performance. The correctness of the stability is also proven based on Lyapunov analysis. Control performance obtained from the simulation example for an uncertain 3-DOF robot and experiment for an uncertain magnetic levitation system (MLS) has verified the effectiveness and practicality of the method.

**Keywords:** Feed forward neural network, sliding mode control, terminal sliding mode control, tracking control methodologies, uncertain nonlinear systems.

## 1. INTRODUCTION

The application of automation production in systems has increased rapidly recently, which has increased the requirements for reliability, processing time, human safety, and efficient operation. Moreover, a more modern automatic system requires more complex technology, such as measurement systems, mechanical structures, and control methods. Those lead to growing uncertain parameters, including external disturbances, uncertain dynamics from structure variation of the system, friction, nonlinearity, or various real working conditions [1,2]. Therefore, obtaining good control performance and maintaining the stability of that performance is an important task for researchers. If uncertain components of a system are not computed accurately and completely, they are the reason for reducing control performance or even result into instability. Furthermore, a worthy problem is the delay of the mechanical system caused by friction. Therefore, a control

algorithm with the robust ability to compensate or counteract undesirable uncertain terms needs further research.

To obtain a high control performance, several control methods have been considered for uncertain nonlinear systems, such as intelligent control [3,4], adaptive control [5], synchronization control [6], and sliding mode control (SMC) [7–10]. They are adaptable and robust with respect to the variation of operating conditions. In comparison with the desired demands, SMC is considered due to widespread applications, simplicity, and robustness to uncertainties. However, intensive studies show that conventional SMC only gives asymptotic control errors [11]. In conventional SMC, in order to speed up convergence, the robust gains of the reaching control law should be increased to be larger than upper bound values of uncertain dynamics that lead to serious chattering behavior. As replacing method, the control methodologies called terminal sliding mode control (TSMC) or global TSMC [12,13] can handle the mentioned problem by synthesizing a nonlinear

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# Adaptive Terminal Sliding Mode Control For Nonlinear

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