

Stabilization Of Switched Nonlinear Systems With Unstable Modes Studies In Systems Decision And Control

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We have studied the stability properties of switched nonlinear time-varying systems with input pointwise delay and external disturbance by means of LKFs. First, we have proposed sufficient conditions ensuring the stability of the switched nonlinear system. In particular, these conditions include an upper bound on the delay.

~~Stability of switched nonlinear systems with delay and ...~~

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~~Stabilization of Switched Nonlinear Systems with Unstable ...~~

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~~Stabilization of Switched Nonlinear Systems with Unstable ...~~

This paper provides a stabilization method for switched nonlinear systems with unstable modes. The obtained results could be the basis of some future works as follows: 1. The obtained stability condition deserves extension to the analysis of other stability notions for switched systems, e.g., asymptotic stability, input-to-state stability, etc. Moreover, various switchings can be considered, e.g. impulsive switching, stochastic switching.

~~On stabilization of switched nonlinear systems with ...~~

Motivated by the above discussions, we mainly investigate the stabilization issue of variable order switched nonlinear systems (VOSNS) with partial unstable modes. Since the non-smooth system may be more realistic in actual engineering, the considered switched system is assumed to be discontinuous in the paper.

~~Stabilization of non smooth variable order switched ...~~

For example, for switched nonlinear systems in triangular structure, stability under arbitrary switchings is achieved via backstepping or forwarding which provides a CLF , , . In , an adaptive control scheme for switched nonlinear systems in strict-feedback form was proposed for switching with a certain dwell-time. It is natural to ask that how to extend the triangular structure to general switched nonlinear structure via a proper switching law.

~~Global stabilization of switched nonlinear systems in non ...~~

Stabilization of Switched Nonlinear Systems with Unstable Modes treats several different subclasses of SNS according to the characteristics of the individual system (time-varying and distributed parameters, for example), the state composition of individual modes and the degree and distribution of instability in its various modes.

~~Stabilization of switched nonlinear systems with unstable ...~~

The problem of global stabilization for a class of switched nonlinear feedforward systems under arbitrary switchings is investigated in this paper. Based on the integrator forwarding technique and the common Lyapunov function method, we design bounded state feedback controllers of individual subsystems to guarantee asymptotic stability of the closed-loop system.

~~Global stabilization for a class of switched nonlinear ...~~

The stabilization of switched stochastic nonlinear systems in strict-feedback form was studied in Hou, Fu, and Duan (2013). On the other hand, finite-time stability of nonlinear systems has been one of the most important research topics due to its important significance in theory and practice.

~~Finite time stabilization of switched stochastic nonlinear ...~~

both integer order and switched systems. According-ly, the contribution of this paper is to investigate the stabilizability and stabilization of such systems. The main contribution of this paper is to study the stabilizability and controller design of a class of non-linear continuous-time dynamical systems under arbitrary switching.

~~Stabilization of Arbitrary Switched Nonlinear Fractional ...~~

The problem of switching stabilization for a class of switched positive nonlinear systems (switched positive homogeneous cooperative system (SPHCS) in the continuous-time context and switched positive homogeneous order-preserving system (SPHOS) in the discrete-time context) is studied by using average dwell time (ADT) approach, where the positive subsystems are possibly all unstable.

~~Stabilization of a Class of Switched Positive Nonlinear ...~~

In recent years, stability analysis and stabilization of switched nonlinear systems have gained considerable interest, for example, controller design under arbitrary or designed switchings , and incremental (Q, S, R)-dissipativity stability under state-dependent switching law . For above mentioned systems, considerable attention has been paid ...

~~Finite time stability and stabilization of switched ...~~

In the past few years, asymptotic stabilization of switched nonlinear systems in lower triangular form has received much attention and a few important results have also appeared in, for example, Han, Ge, and Lee (2009), Long and Zhao (2012), Ma, Liu, Zhao, Wang, and Zong (2015), Ma and Zhao (2010) and Wu (2009). One feature of the studied switched systems in the mentioned references above is that the powers of the chained integrators are restricted to the same positive odd integer for ...

~~Global finite time stabilization of a class of switched ...~~

This paper considers switching stabilization of some general nonlinear systems. Assuming certain properties of a convex linear combination of the nonlinear vector fields, two ways of generating ...

~~On the stabilization of switched nonlinear systems via ...~~

Stabilization of Switched Nonlinear Systems with Unstable Modes treats several different subclasses of SNS according to the characteristics of the individual system (time-varying and distributed parameters, for example), the state composition of individual modes and the degree and distribution of instability in its various modes. Achievement and maintenance of stability across the system as a whole is bolstered by trading off between individual modes which may be either stable or unstable ...

~~Stabilization of Switched Nonlinear Systems with Unstable ...~~

Abstract. This article investigates the finite-time stability, stabilization, and boundedness problems for switched nonlinear systems with time-delay. Unlike the existing average dwell-time technique based on time-dependent switching strategy, largest region function strategy, that is, state-dependent switching control strategy is adopted to design the switching signal, which does not require the switching instants to be given in advance.

~~Finite time stability and boundedness of switched ...~~

This paper deals with stability and stabilization of a class of switched discrete-time delay systems. The system to be considered is subject to interval time-varying delays, which allows the delay to be a fast time-varying function and the lower bound is not restricted to zero.

~~Stability and stabilization of switched linear discrete ...~~

As is shown in , the common Lyapunov function method can be used to achieve stability or other properties of switched systems under arbitrary switching; the single Lyapunov function and multiple Lyapunov functions methods can be used to get desired control aims of switched systems by designing state-dependent switching signals; and the dwell time method and its variants can be applied to control time-driven switched systems via designing time-dependent switching signals.

~~Global adaptive stabilization of stochastic high order ...~~

This paper is concerned with the problems of absolute exponential stability and stabilization for a class of switched nonlinear systems whose system matrices are Metzler. Nonlinearity of the systems is constrained in a sector field, which is bounded by two odd symmetric piecewise linear functions.