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~~4.3 Linear Versus Nonlinear
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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

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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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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

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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~~

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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

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Nonlinear 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

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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-

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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 ...~~

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Stabilization of Switched Nonlinear Systems with Unstable Modes
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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

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nonlinear systems and the degree and distribution of instability in its various modes.

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

The problem of global stabilization for a class of switched nonlinear

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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

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guarantee asymptotic stability of
the closed-loop system.

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

The stabilization of switched
stochastic nonlinear systems in
strict-feedback form was studied

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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~~

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~~Nonlinear 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

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controller design of a class of non-linear continuous-time dynamical systems under arbitrary switching.

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

The problem of switching

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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

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studied by using average dwell
time (ADT) approach, where the
positive subsystems are possibly
all unstable.

Control

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

In recent years, stability analysis

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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

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mentioned systems, considerable attention has been paid ...

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

In the past few years, asymptotic stabilization of switched nonlinear systems in lower triangular form

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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

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mentioned references above is that
the powers of the chained
integrators are restricted to the
same positive odd integer for ...

Control

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

This paper considers switching

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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~~

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~~nonlinear systems via ...~~ With

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treats several different subclasses
of SNS according to the

characteristics of the individual
system (time-varying and
distributed parameters, for

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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

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Abstract. This article investigates the finite time stability, stabilization, and boundedness

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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

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adopted to design the switching
signal, which does not require the
switching instants to be given in
advance.

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

This paper deals with stability and

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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.

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~~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

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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

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time-driven systems via
designing time-dependent
switching signals.

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

This paper is concerned with the
problems of absolute exponential

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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.

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